

Dust

EPL No: 11912 <http://www.environment.gov.au/licences/>
 Licence: Bambi & Cowell Ltd
 Address: PO Box 210 West Wyalonia NSW 2671

Monitoring Point 1 - Locks Shed

Dust monitoring, Dust gauge located on private property to the west of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates (µg/m ³ /month)	Comments
Monthly	11/01/2013	21/02/2013	14/04/2013	1.9	January sample
Monthly	26/02/2013	26/03/2013	14/04/2013	2.4	February sample
Monthly	26/03/2013	19/04/2013	14/05/2013	2.2	March sample
Monthly	01/05/2013	21/06/2013	14/07/2013	2.0	April sample
Monthly	26/06/2013	26/06/2013	14/08/2013	3.5	May sample
Monthly	26/06/2013	12/08/2013	14/08/2013	5.2	June sample
Monthly	26/07/2013	13/08/2013	14/09/2013	3.1	July sample
Monthly	26/08/2013	11/09/2013	14/10/2013	1.6	August sample
Monthly	23/09/2013	06/11/2013	14/11/2013	0.3	September sample
Monthly	29/10/2013	12/11/2013	14/12/2013	0.7	October sample
Monthly	27/11/2013	06/12/2013	14/01/2014	1.0	November sample

Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly	11/01/2013	21/06/2013	14/07/2013	2800	0.6	0.51	130	8.9	0.6	4910	Copper and zinc results are under investigation

Monitoring Point 2 - Site Office

Dust monitoring, Dust gauge located on private property to the south of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates (µg/m ³ /month)	Comments
Monthly	11/01/2013	21/02/2013	14/04/2013	1.9	January sample
Monthly	06/03/2013	26/03/2013	14/04/2013	2.5	February sample
Monthly	26/03/2013	19/04/2013	14/05/2013	2.9	March sample
Monthly	01/05/2013	21/06/2013	14/07/2013	3.7	April sample
Monthly	30/06/2013	26/06/2013	14/08/2013	4.6	May sample
Monthly	26/06/2013	12/08/2013	14/08/2013	6.2	June sample
Monthly	26/07/2013	13/08/2013	14/09/2013	3.8	July sample
Monthly	26/08/2013	11/09/2013	14/10/2013	3.2	August sample
Monthly	23/09/2013	06/11/2013	14/11/2013	0.9	September sample
Monthly	29/10/2013	12/11/2013	14/12/2013	3.6	October sample
Monthly	27/11/2013	06/12/2013	14/01/2014	1.4	November sample

Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly	11/01/2013	21/06/2013	14/07/2013	6970	2.2	0.9	680	18	1.0	260	Copper and zinc results are under investigation

Monitoring Point 3 - DG05

Dust monitoring, Dust gauge located within Lake Cowal to the east of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates (µg/m ³ /month)	Comments
Monthly	11/01/2013	21/02/2013	14/04/2013	4.4	January sample
Monthly	26/02/2013	26/03/2013	14/04/2013	3.6	February sample
Monthly	26/03/2013	19/04/2013	14/05/2013	3.2	March sample
Monthly	26/06/2013	21/06/2013	14/07/2013	5.7	April sample
Monthly	26/06/2013	26/06/2013	14/08/2013	3.3	May sample
Monthly	27/06/2013	12/07/2013	14/08/2013	0.1	June sample - duplicate sample result was 0.4 µg/m ³ /month
Monthly	31/07/2013	21/08/2013	14/09/2013	0.1	July sample
Monthly	27/08/2013	11/09/2013	14/10/2013	0.4	August sample
Monthly	26/09/2013	06/11/2013	14/11/2013	1.8	September sample
Monthly	26/10/2013	12/11/2013	14/12/2013	0.8	October sample
Monthly	25/11/2013	06/12/2013	14/01/2014	1.0	November sample

Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly	30/01/2013	24/06/2013	14/07/2013	2700	0.7	0.4	260	3.4	0.3	430	Copper and zinc results are under investigation

Monitoring Point 4 - DG09

Dust monitoring, Dust gauge located on private property to the south of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates (µg/m ³ /month)	Comments
Monthly	11/01/2013	21/02/2013	14/04/2013	0.9	January sample
Monthly	06/03/2013	26/03/2013	14/04/2013	4.3	February sample - Sample jar was broken in transit to laboratory
Monthly	26/03/2013	19/04/2013	14/05/2013	1.2	March sample
Monthly	01/05/2013	21/06/2013	14/07/2013	3.1	April sample
Monthly	30/06/2013	26/06/2013	14/08/2013	2.3	May sample
Monthly	26/06/2013	12/07/2013	14/08/2013	3.6	June sample
Monthly	27/07/2013	13/08/2013	14/09/2013	0.6	July sample
Monthly	28/08/2013	11/09/2013	14/10/2013	0.6	August sample
Monthly	23/09/2013	06/11/2013	14/11/2013	3.6	September sample
Monthly	29/10/2013	12/11/2013	14/12/2013	0.6	October sample
Monthly	27/11/2013	06/12/2013	14/01/2014	0.7	November sample

Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly	11/01/2013	21/02/2013	14/07/2013	3700	1.4	<0.05<	260	26	<0.2<	630	Copper and zinc results are under investigation

Monitoring Point 5 - Site 52

Dust monitoring, Dust gauge located within ML1535 and north of the open pit

Frequency	Date Sampled	Date Obtained	Date Published	Particulates (µg/m ³ /month)	Comments
Monthly	30/01/2013	21/02/2013	14/04/2013	4.2	January sample
Monthly	06/03/2013	26/03/2013	14/04/2013	4.3	February sample
Monthly	26/03/2013	19/04/2013	14/05/2013	10.7	March sample
Monthly	01/05/2013	21/06/2013	14/07/2013	0.5	April sample
Monthly	30/06/2013	26/06/2013	14/08/2013	2.8	May sample
Monthly	26/06/2013	12/07/2013	14/08/2013	0.3	June sample
Monthly	26/07/2013	13/08/2013	14/09/2013	0.2	July sample
Monthly	26/08/2013	11/09/2013	14/10/2013	3.8	August sample
Monthly	23/09/2013	06/11/2013	14/11/2013	3.2	September sample
Monthly	29/10/2013	12/11/2013	14/12/2013	2.1	October sample
Monthly	27/11/2013	06/12/2013	14/01/2014	3.9	November sample

Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly	20/01/2013	21/06/2013	14/07/2013	3140	0.0	0.16	210	140	0.5	280	Copper and zinc results are under investigation

Monitoring Point 6 - DG01

Dust monitoring, Dust gauge located on private property to the north of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Particulates (µg/m ³ /month)	Comments
Monthly	11/01/2013	21/02/2013	14/04/2013	2.9	January sample
Monthly	26/02/2013	26/03/2013	14/04/2013	3.6	February sample
Monthly	26/03/2013	19/04/2013	14/05/2013	2.8	March sample
Monthly	01/05/2013	21/06/2013	14/07/2013	3.3	April sample
Monthly	26/06/2013	26/06/2013	14/08/2013	0.9	May sample
Monthly	26/06/2013	12/08/2013	14/08/2013	0.7	June sample
Monthly	26/07/2013	13/08/2013	14/09/2013	0.5	July sample
Monthly	26/08/2013	11/09/2013	14/10/2013	0.5	August sample
Monthly	23/09/2013	06/11/2013	14/11/2013	0.7	September sample
Monthly	29/10/2013	12/11/2013	14/12/2013	2.1	October sample
Monthly	27/11/2013	06/12/2013	14/01/2014	1.4	November sample

Frequency	Date Sampled	Date Obtained	Date Published	Aluminium (mg/kg)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Six Monthly	11/01/2013	21/06/2013	14/07/2013	2220	2.1	0.16	1700	9	3.2	450	Copper and zinc results are under investigation

Monitoring Point 6 - HW2

Dust monitoring, High volume sampler located on private property to the north of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	Total Suspended Particles (µg/m ³)	Comments
Every 6 days	06/01/2013	16/01/2013	14/02/2013	137.0	
Every 6 days	13/01/2013	23/01/2013	14/02/2013	61.4	Result has been investigated - very high TSP reading was due to extended dry weather conditions
Every 6 days	18/01/2013	18/04/2013	14/04/2013	154.0	Result has been investigated - very high TSP reading was due to extended dry weather conditions
Every 6 days	24/01/2013	13/04/2013	14/04/2013	55.0	High due to local environmental factors
Every 6 days	30/01/2013	11/04/2013	14/04/2013	65.2	High due to local environmental factors
Every 6 days	05/02/2013	11/04/2013	14/04/2013	48.6	High due to local environmental factors
Every 6 days	11/02/2013	11/04/2013	14/04/2013	56.5	High due to local environmental factors
Every 6 days	17/02/2013	11/04/2013	14/04/2013	39.9	High due to local environmental factors
Every 6 days	23/02/2013	11/04/2013	14/04/2013	55.2	High due to local environmental factors
Every 6 days	01/03/2013	11/04/2013	14/04/2013	25.4	High due to local environmental factors
Every 6 days	07/03/2013	11/04/2013	14/04/2013	38.2	High due to local environmental factors
Every 6 days	13/03/2013	11/04/2013	14/04/2013	20.9	High due to local environmental factors
Every 6 days	19/03/2013	11/04/2013	14/04/2013	71.5	High due to local environmental factors
Every 6 days	25/03/2013	11/04/2013	14/04/2013	69.9	High due to local environmental factors
Every 6 days	31/03/2013	07/06/2013	14/06/2013	21.5	High due to local environmental factors
Every 6 days	06/04/2013	07/06/2013	14/06/2013	35.4	High due to local environmental factors
Every 6 days	12/04/2013	07/06/2013	14/06/2013	31.9	High due to local environmental factors
Every 6 days	18/04/2013	07/06/2013	14/06/2013	101.0	High due to local environmental factors
Every 6 days	24/04/2013	07/06/2013	14/06/2013	21.8	High due to local environmental factors
Every 6 days	30/04/2013	07/06/2013	14/06/2013	64.7	High due to local environmental factors
Every 6 days	06/05/2013	07/06/2013	14/06/2013	106.0	High due to local environmental factors
Every 6 days	12/05/2013	07/06/2013	14/06/2013	42.9	High due to local environmental factors
Every 6 days	18/05/2013	07/06/2013	14/06/2013	33.2	High due to local environmental factors
Every 6 days	24/05/2013	08/07/2013	14/07/2013	20.5	High due to local environmental factors
Every 6 days	30/05/2013	08/07/2013	14/07/2013	27.6	High due to local environmental factors
Every 6 days	05/06/2013	08/07/2013	14/07/2013	15.3	High due to local environmental factors
Every 6 days	11/06/2013	08/07/2013	14/07/2013	7.5	High due to local environmental factors
Every 6 days	17/06/2013	08/07/2013	14/07/2013	7.2	High due to local environmental factors
Every 6 days	23/06/2013	31/07/2013	14/08/2013	23.7	High due to local environmental factors
Every 6 days	29/06/2013	31/07/2013	14/08/2013	17.9	High due to local environmental factors
Every 6 days	05/07/2013	31/07/2013	14/08/2013	21.9	High due to local environmental factors
Every 6 days	11/07/2013	31/07/2013	14/08/2013	10.4	High due to local environmental factors
Every 6 days	17/07/2013	30/08/2013	14/09/2013	9.3	High due to local environmental factors
Every 6 days	23/07/2013	30/08/2013	14/09/2013	15.7	High due to local environmental factors
Every 6 days	04/08/2013	30/08/2013	14/09/2013	20.1	High due to local environmental factors
Every 6 days	10/08/2013	30/08/2013	14/09/2013	13.2	High due to local environmental factors
Every 6 days	16/08/2013	30/08/2013	14/09/2013	11.0	High due to local environmental factors
Every 6 days	22/08/2013	30/08/2013	14/10/2013	21.8	High due to local environmental factors
Every 6 days	28/08/2013	30/08/2013	14/10/2013	21.8	High due to local environmental factors
Every 6 days	03/09/2013	30/08/2013	14/10/2013	44.7	High due to local environmental factors
Every 6 days	09/09/2013	30/08/2013	14/10/2013	48.9	High due to local environmental factors
Every 6 days	15/09/2013	30/08/2013	14/10/2013	28.5	High due to local environmental factors
Every 6 days	21/09/2013	09/10/2013	14/11/2013	35.3	High due to local environmental factors
Every 6 days	27/09/2013	30/10/2013	14/11/2013	42.8	High due to local environmental factors
Every 6 days	03/10/2013	30/10/2013	14/11/2013	25.4	High due to local environmental factors
Every 6 days	09/10/2013	30/10/2013	14/11/2013	43.1	High due to local environmental factors
Every 6 days	15/10/2013	30/10/2013	14/11/2013	42.1	High due to local environmental factors
Every 6 days	21/10/2013	01/12/2013	14/12/2013	59.0	High due to local environmental factors
Every 6 days	27/10/2013	01/12/2013	14/12/2013	35.7	High due to local environmental factors
Every 6 days	03/11/2013	01/12/2013	14/12/2013	61.0	High due to local environmental factors
Every 6 days	09/11/2013	14/12/2013	14/12/2013	45.8	High due to local environmental factors
Every 6 days	14/1				

Monitoring Point: 12 <D1>

Stormwater quality monitoring, Northern waste emplacement contained water storage

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	08/01/2013	14/02/2013	9.81	4460	9	
Weekly	07/01/2013	09/01/2013	14/02/2013	9.34	4790	34	
Weekly	17/01/2013	25/01/2013	14/02/2013	8.09	5040	8	EC levels are increasing due to evaporation and lack of rainfall
Weekly	21/01/2013	01/02/2013	14/02/2013	9.11	5250	31	EC levels are increasing due to evaporation and lack of rainfall
Weekly	30/01/2013	04/02/2013	14/02/2013	9.12	7730	28	EC levels are increasing due to evaporation and lack of rainfall
Weekly	04/02/2013	11/02/2013	14/03/2013	9.36	8370	32	EC levels are increasing due to evaporation and lack of rainfall
Weekly	13/02/2013	21/02/2013	14/03/2013	9.23	10160	25	EC levels are increasing due to evaporation and lack of rainfall
Weekly	19/02/2013	21/02/2013	14/03/2013	9.23	11280	206	EC levels are increasing due to evaporation and lack of rainfall
Weekly	25/02/2013	04/03/2013	14/03/2013	8.35	12040	156	EC levels are increasing due to evaporation and lack of rainfall
Event	01/03/2013	13/03/2013	14/04/2013	7.90	6960	96	Rainfall event
Weekly	04/03/2013	11/03/2013	14/04/2013	9.32	9590	110	pH reading taken in lab was 8.88
Weekly	12/03/2013	18/03/2013	14/04/2013	8.14	7300	32	
Weekly	20/03/2013	27/03/2013	14/04/2013	9.00	10250	101	
Weekly	25/03/2013	02/04/2013	14/04/2013	6.45	8520	32	pH reading taken in lab was 8.86
Weekly	03/04/2013	09/04/2013	14/05/2013	8.98	11870	16	
Weekly	11/04/2013	19/04/2013	14/05/2013	8.15	12270	16	
Weekly	17/04/2013	29/04/2013	14/05/2013	8.98	13060	26	
Weekly	22/04/2013	03/05/2013	14/05/2013	8.84	13650	90	
Weekly	29/04/2013	06/05/2013	14/05/2013	9.03	11030	93	
Weekly	07/05/2013	14/05/2013	14/06/2013	9.20	15960	39	
Weekly	14/05/2013	05/06/2013	14/06/2013	8.45	15840	28	
Weekly	20/05/2013	28/05/2013	14/06/2013	9.02	16170	8	
Weekly	29/05/2013	05/06/2013	14/06/2013	9.20	11770	8	
Weekly	03/06/2013	12/06/2013	14/07/2013	8.69	13630	18	
Weekly	11/06/2013	18/06/2013	14/07/2013	9.85	14120	19	
Event	12/06/2013	18/06/2013	14/07/2013	6.77	1952	233	Rainfall event
Weekly	18/06/2013	26/06/2013	14/07/2013	7.82	4160	26	
Weekly	26/06/2013	02/07/2013	14/07/2013	7.97	6320	12	
Weekly	01/07/2013	01/07/2013	14/08/2013	9.11	5880	36	
Weekly	09/07/2013	09/07/2013	14/08/2013	8.95	6140	< 5	
Weekly	17/07/2013	17/07/2013	14/08/2013	8.26	6070	15	
Weekly	24/07/2013	24/07/2013	14/08/2013	8.44	5620	42	
Weekly	29/07/2013	29/07/2013	14/08/2013	6.96	5270	32	
Weekly	06/08/2013	13/08/2013	14/09/2013	7.52	5770	22	
Weekly	12/08/2013	20/08/2013	14/09/2013	8.82	5710	62	
Weekly	19/08/2013	29/08/2013	14/09/2013	8.75	5870	24	
Weekly	29/08/2013	03/09/2013	14/09/2013	8.60	6090	28	
Weekly	02/09/2013	12/09/2013	14/10/2013	7.85	6090	8	
Weekly	10/09/2013	17/09/2013	14/10/2013	8.96	6200	14	
Weekly	16/09/2013	26/09/2013	14/10/2013	8.81	6010	67	
Weekly	17/09/2013	26/09/2013	14/10/2013	8.11	3740	42	Rainfall event
Weekly	23/09/2013	30/09/2013	14/10/2013	6.84	3180	38	
Weekly	01/10/2013	14/10/2013	14/11/2013	8.79	4030	21	
Weekly	08/10/2013	15/10/2013	14/11/2013	9.13	3880	5	
Weekly	14/10/2013	24/10/2013	14/11/2013	9.08	4110	10	
Weekly	21/10/2013	30/10/2013	14/11/2013	9.31	4300	20	
Weekly	29/10/2013	06/11/2013	14/11/2013	9.52	4870	28	
Weekly	04/11/2013	14/11/2013	14/12/2013	9.21	4870	10	
Weekly	11/11/2013	20/11/2013	14/12/2013	9.29	5150	12	
Weekly	18/11/2013	27/11/2013	14/12/2013	9.05	5630	18	
Weekly	27/11/2013	04/12/2013	14/12/2013	8.83	3940	16	
Weekly	03/12/2013	20/12/2013	14/01/2014	8.69	5870	28	
Weekly	09/12/2013	18/12/2013	14/01/2014	9.12	6410	76	
Weekly	17/12/2013	03/01/2014	14/01/2014	9.14	6550	34	
Weekly	23/12/2013	31/12/2013	14/01/2014	9.15	7150	38	

Monitoring Point: 13 <D4>

Stormwater quality monitoring, Southern waste emplacement contained water storage

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	08/01/2013	14/02/2013	8.78	31700	96	
Weekly	07/01/2013	09/01/2013	14/02/2013	7.86	44500	284	
Weekly	17/01/2013	17/01/2013	14/02/2013	-	-	-	D4 is dry, no water to sample
Weekly	21/01/2013	21/01/2013	14/02/2013	-	-	-	D4 is dry, no water to sample
Weekly	30/01/2013	30/01/2013	14/02/2013	-	-	-	D4 is dry, no water to sample
Weekly	04/02/2013	04/02/2013	14/03/2013	-	-	-	D4 is dry, no water to sample
Weekly	13/02/2013	13/02/2013	14/03/2013	-	-	-	D4 is dry, no water to sample
Weekly	19/02/2013	19/02/2013	14/03/2013	-	-	-	D4 is dry, no water to sample
Weekly	25/02/2013	25/02/2013	14/03/2013	-	-	-	D4 is dry, no water to sample
Weekly	01/03/2013	13/03/2013	14/04/2013	7.82	11760	160	Rainfall event
Weekly	04/03/2013	11/03/2013	14/04/2013	7.48	18040	6	
Weekly	12/03/2013	18/03/2013	14/04/2013	7.39	19340	18	
Weekly	20/03/2013	20/03/2013	14/04/2013	-	-	-	D4 is dry, no water to sample
Weekly	25/03/2013	25/03/2013	14/04/2013	-	-	-	D4 is dry, no water to sample
Weekly	03/04/2013	03/04/2013	14/05/2013	-	-	-	D4 is dry, no water to sample
Weekly	11/04/2013	11/04/2013	14/05/2013	-	-	-	D4 is dry, no water to sample
Weekly	17/04/2013	17/04/2013	14/05/2013	-	-	-	D4 is dry, no water to sample
Weekly	22/04/2013	22/04/2013	14/05/2013	-	-	-	D4 is dry, no water to sample
Weekly	29/04/2013	29/04/2013	14/05/2013	-	-	-	D4 is dry, no water to sample
Weekly	07/05/2013	07/05/2013	14/06/2013	-	-	-	D4 is dry, no water to sample
Weekly	14/05/2013	14/05/2013	14/06/2013	-	-	-	D4 is dry, no water to sample
Weekly	20/05/2013	20/05/2013	14/06/2013	-	-	-	D4 is dry, no water to sample
Weekly	29/05/2013	29/05/2013	14/06/2013	-	-	-	D4 is dry, no water to sample
Weekly	03/06/2013	12/06/2013	14/07/2013	-	-	-	D4 is dry, no water to sample
Weekly	11/06/2013	18/06/2013	14/07/2013	-	-	-	D4 is dry, no water to sample
Event	12/06/2013	18/06/2013	14/07/2013	7.87	7590	31	Rainfall event
Weekly	18/06/2013	26/06/2013	14/07/2013	7.93	3540	18	
Weekly	26/06/2013	02/07/2013	14/07/2013	7.91	5050	131	
Weekly	01/07/2013	01/07/2013	14/08/2013	8.76	5290	30	
Weekly	09/07/2013	09/07/2013	14/08/2013	8.34	5910	206	
Weekly	17/07/2013	17/07/2013	14/08/2013	6.52	5940	< 5	
Weekly	24/07/2013	24/07/2013	14/08/2013	8.15	4810	38	
Weekly	29/07/2013	29/07/2013	14/08/2013	6.92	5340	33	
Weekly	06/08/2013	13/08/2013	14/09/2013	8.36	5820	9	
Weekly	12/08/2013	20/08/2013	14/09/2013	8.11	5830	79	
Weekly	19/08/2013	29/08/2013	14/09/2013	7.79	4590	58	
Weekly	29/08/2013	03/09/2013	14/09/2013	7.78	6120	9	
Weekly	02/09/2013	12/09/2013	14/10/2013	8.09	5930	21	
Weekly	10/09/2013	17/09/2013	14/10/2013	6.71	6570	175	
Weekly	16/09/2013	26/09/2013	14/10/2013	7.62	5720	808	
Weekly	17/09/2013	26/09/2013	14/10/2013	7.67	2158	22	Rainfall event
Weekly	23/09/2013	30/09/2013	14/10/2013	7.68	3670	14	
Weekly	01/10/2013	14/10/2013	14/11/2013	8.56	4270	30	
Weekly	08/10/2013	15/10/2013	14/11/2013	8.73	4690	15	
Weekly	14/10/2013	24/10/2013	14/11/2013	7.83	4640	48	
Weekly	21/10/2013	30/10/2013	14/11/2013	8.74	5250	22	
Weekly	29/10/2013	06/11/2013	14/11/2013	8.07	5740	246	
Weekly	04/11/2013	14/11/2013	14/12/2013	8.63	5910	62	
Weekly	11/11/2013	20/11/2013	14/12/2013	8.19	5990	36	
Weekly	18/11/2013	27/11/2013	14/12/2013	8.13	6870	266	
Weekly	27/11/2013	04/12/2013	14/12/2013	8.19	7190	23	
Weekly	03/12/2013	20/12/2013	14/01/2014	8.42	7790	57	
Weekly	09/12/2013	18/12/2013	14/01/2014	7.30	8030	14	
Weekly	17/12/2013	03/01/2014	14/01/2014	8.60	9350	40	
Weekly	23/12/2013	31/12/2013	14/01/2014	8.44	10800	413	

Lake Water

EPL No: 11912 <http://www.environment.nsw.gov.au/prpoeoapp/>

Licensee: Barrick (Cowal) Ltd

Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 14 <P1>

Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	11/01/2013	14/02/2013	7.82	349	340	
Weekly	09/01/2013	17/01/2013	14/02/2013	8.56	371	408	
Weekly	16/01/2013	24/01/2013	14/02/2013	8.33	372	250	
Weekly	23/01/2013	31/01/2013	14/02/2013	8.18	391	330	
Weekly	30/01/2013	05/02/2013	14/02/2013	8.35	430	236	
Weekly	04/02/2013	11/02/2013	14/03/2013	8.17	405	232	
Weekly	13/02/2013	21/02/2013	14/03/2013	8.46	492	134	
Weekly	19/02/2013	21/02/2013	14/03/2013	8.29	507	60	
Weekly	25/02/2013	05/03/2013	14/03/2013	8.97	477	321	
Weekly	01/03/2013	12/03/2013	14/04/2013	8.15	501	782	Rainfall event
Weekly	04/03/2013	15/03/2013	14/04/2013	7.37	449	364	
Weekly	12/03/2013	20/03/2013	14/04/2013	8.22	478	188	
Weekly	20/03/2013	27/03/2013	14/04/2013	8.32	512	186	
Weekly	25/03/2013	02/04/2013	14/04/2013	6.17	512	221	pH reading taken in lab was 8.27
Weekly	02/04/2013	15/04/2013	14/05/2013	8.14	406	81	
Weekly	11/04/2013	19/04/2013	14/05/2013	8.21	519	74	
Weekly	17/04/2013	24/04/2013	14/05/2013	8.19	523	72	
Weekly	23/04/2013	01/05/2013	14/05/2013	8.30	542	152	
Weekly	29/04/2013	06/05/2013	14/05/2013	8.56	544	55	
Weekly	08/05/2013	15/05/2013	14/06/2013	8.52	579	150	
Weekly	14/05/2013	21/05/2013	14/06/2013	7.95	561	136	
Weekly	20/05/2013	29/05/2013	14/06/2013	8.47	582	49	
Weekly	29/05/2013	05/06/2013	14/06/2013	8.60	564	44	
Weekly	03/06/2013	12/06/2013	14/07/2013	8.19	529	75	
Weekly	11/06/2013	19/06/2013	14/07/2013	7.41	421	185	
Weekly	18/06/2013	21/06/2013	14/07/2013	8.35	536	199	
Weekly	27/06/2013	04/07/2013	14/07/2013	8.86	517	269	
Weekly	01/07/2013	12/07/2013	14/08/2013	7.97	453	130	
Weekly	09/07/2013	15/07/2013	14/08/2013	7.69	499	176	
Weekly	16/07/2013	19/07/2013	14/08/2013	8.22	477	181	
Weekly	24/07/2013	30/07/2013	14/08/2013	8.13	504	214	
Weekly	31/07/2013	07/08/2013	14/08/2013	8.68	480	183	
Weekly	06/08/2013	13/08/2013	14/09/2013	8.16	448	94	
Weekly	13/08/2013	20/08/2013	14/09/2013	8.52	524	94	
Weekly	19/08/2013	29/08/2013	14/09/2013	7.41	1074	80	EC reading taken in lab was 539 µS/cm
Weekly	27/08/2013	03/09/2013	14/09/2013	8.49	504	50	
Weekly	03/09/2013	11/09/2013	14/10/2013	8.59	527	81	
Weekly	11/09/2013	17/09/2013	14/10/2013	7.79	492	118	
Weekly	18/09/2013	24/09/2013	14/10/2013	8.74	512	101	
Weekly	24/09/2013	30/09/2013	14/10/2013	8.44	523	72	
Weekly	02/10/2013	16/10/2013	14/11/2013	6.85	501	88	
Weekly	09/10/2013	15/10/2013	14/11/2013	8.54	532	71	
Weekly	16/10/2013	22/10/2013	14/11/2013	8.69	528	146	
Weekly	23/10/2013	30/10/2013	14/11/2013	8.64	584	186	
Weekly	30/10/2013	06/11/2013	14/11/2013	8.81	592	274	
Weekly	04/11/2013	14/11/2013	14/12/2013	8.58	634	587	
Weekly	13/11/2013	20/11/2013	14/12/2013	8.55	643	60	
Weekly	19/11/2013	27/11/2013	14/12/2013	8.75	672	74	
Weekly	25/11/2013	04/12/2013	14/12/2013	8.81	664	45	
Weekly	02/12/2013	10/12/2013	14/01/2014	8.58	765	146	
Weekly	11/12/2013	18/12/2013	14/01/2014	8.66	734	153	
Weekly	16/12/2013	24/12/2013	14/01/2014	8.66	749	215	
Weekly	23/12/2013	31/12/2013	14/01/2014	8.68	835	106	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	02/01/2013	11/01/2013	14/02/2013	117	0.004	0.0002	0.004	< 0.001	< 0.0001	< 0.01	0.019	
Quarterly	02/04/2013	15/04/2013	14/05/2013	172	0.008	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	< 0.005	
Quarterly	01/07/2013	12/07/2013	14/08/2013	162	0.008	< 0.0001	0.003	< 0.001	< 0.0001	< 0.01	< 0.005	
Quarterly	02/10/2013	16/10/2013	14/11/2013	166	0.010	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.023	

Monitoring Point: 15 <P2>

Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	11/01/2013	14/02/2013	8.05	343	320	
Weekly	09/01/2013	17/01/2013	14/02/2013	8.31	362	388	
Weekly	16/01/2013	24/01/2013	14/02/2013	8.27	375	402	
Weekly	23/01/2013	31/01/2013	14/02/2013	8.24	389	340	
Weekly	30/01/2013	05/02/2013	14/02/2013	8.32	430	280	
Weekly	04/02/2013	11/02/2013	14/03/2013	8.26	434	205	
Weekly	13/02/2013	21/02/2013	14/03/2013	8.44	481	132	
Weekly	19/02/2013	21/02/2013	14/03/2013	8.24	515	98	
Weekly	25/02/2013	05/03/2013	14/03/2013	8.84	482	304	
Weekly	01/03/2013	12/03/2013	14/04/2013	8.34	504	710	Rainfall event
Weekly	04/03/2013	15/03/2013	14/04/2013	7.51	466	444	
Weekly	12/03/2013	20/03/2013	14/04/2013	8.09	487	187	
Weekly	20/03/2013	27/03/2013	14/04/2013	8.32	513	180	
Weekly	25/03/2013	02/04/2013	14/04/2013	6.22	520	176	pH reading taken in lab was 8.28
Weekly	02/04/2013	15/04/2013	14/05/2013	8.24	403	83	
Weekly	11/04/2013	19/04/2013	14/05/2013	8.19	527	48	
Weekly	17/04/2013	24/04/2013	14/05/2013	8.18	529	104	
Weekly	23/04/2013	01/05/2013	14/05/2013	8.32	543	134	
Weekly	29/04/2013	06/05/2013	14/05/2013	8.31	553	78	
Weekly	08/05/2013	15/05/2013	14/06/2013	8.37	582	128	
Weekly	14/05/2013	21/05/2013	14/06/2013	7.96	559	140	
Weekly	20/05/2013	29/05/2013	14/06/2013	8.48	586	58	
Weekly	29/05/2013	05/06/2013	14/06/2013	8.61	561	32	
Weekly	03/06/2013	12/06/2013	14/07/2013	8.18	586	48	
Weekly	11/06/2013	19/06/2013	14/07/2013	7.76	434	186	
Weekly	18/06/2013	21/06/2013	14/07/2013	8.45	536	154	
Weekly	27/06/2013	04/07/2013	14/07/2013	9.09	517	184	
Weekly	01/07/2013	12/07/2013	14/08/2013	8.10	464	245	
Weekly	09/07/2013	15/07/2013	14/08/2013	8.34	501	216	
Weekly	16/07/2013	19/07/2013	14/08/2013	8.22	501	216	
Weekly	24/07/2013	30/07/2013	14/08/2013	8.26	515	234	
Weekly	31/07/2013	07/08/2013	14/08/2013	8.63	504	169	
Weekly	06/08/2013	13/08/2013	14/09/2013	8.40	445	104	
Weekly	13/08/2013	20/08/2013	14/09/2013	8.51	521	112	
Weekly	19/08/2013	29/08/2013	14/09/2013	8.63	523	83	
Weekly	27/08/2013	03/09/2013	14/09/2013	8.59	509	53	
Weekly	03/09/2013	11/09/2013	14/10/2013	8.65	524	77	
Weekly	11/09/2013	17/09/2013	14/10/2013	8.03	499	100	
Weekly	18/09/2013	24/09/2013	14/10/2013	8.79	512	91	
Weekly	24/09/2013	30/09/2013	14/10/2013	8.48	522	72	
Weekly	02/10/2013	16/10/2013	14/11/2013	7.82	502	94	
Weekly	09/10/2013	15/10/2013	14/11/2013	8.69	522	70	
Weekly	16/10/2013	22/10/2013	14/11/2013	8.65	527	144	
Weekly	23/10/2013	30/10/2013	14/11/2013	8.38	589	208	
Weekly	30/10/2013	06/11/2013	14/11/2013	8.96	595	180	
Weekly	04/11/2013	14/11/2013	14/12/2013	8.64	648	608	
Weekly	13/11/2013	20/11/2013	14/12/2013	8.58	639	60	

Weekly	19/11/2013	27/11/2013	14/12/2013	8.59	671	82	
Weekly	25/11/2013	04/12/2013	14/12/2013	8.80	662	50	
Weekly	02/12/2013	10/12/2013	14/01/2014	8.61	762	154	
Weekly	11/12/2013	18/12/2013	14/01/2014	8.68	733	293	
Weekly	16/12/2013	24/12/2013	14/01/2014	8.62	749	250	
Weekly	23/12/2013	31/12/2013	14/01/2014	8.68	827	98	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	02/01/2013	11/01/2013	14/02/2013	117	0.004	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.022	
Quarterly	02/04/2013	15/04/2013	14/05/2013	172	0.009	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.005	
Quarterly	01/07/2013	12/07/2013	14/08/2013	160	0.008	< 0.0001	0.003	< 0.001	< 0.0001	< 0.01	< 0.005	
Quarterly	02/10/2013	16/10/2013	14/11/2013	168	0.009	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.016	

Monitoring Point: 16 <P3>

Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	11/01/2013	14/02/2013	7.85	356	324	
Weekly	09/01/2013	17/01/2013	14/02/2013	8.05	353	428	
Weekly	16/01/2013	24/01/2013	14/02/2013	8.27	374	352	
Weekly	23/01/2013	31/01/2013	14/02/2013	8.20	387	278	
Weekly	30/01/2013	05/02/2013	14/02/2013	8.26	426	316	
Weekly	04/02/2013	11/02/2013	14/03/2013	8.28	446	203	
Weekly	13/02/2013	21/02/2013	14/03/2013	8.41	486	168	
Weekly	19/02/2013	21/02/2013	14/03/2013	8.21	510	34	
Weekly	25/02/2013	05/03/2013	14/03/2013	8.86	480	262	
Weekly	01/03/2013	12/03/2013	14/04/2013	8.32	486	680	Rainfall event
Weekly	04/03/2013	15/03/2013	14/04/2013	7.88	463	656	
Weekly	12/03/2013	20/03/2013	14/04/2013	6.99	482	205	
Weekly	20/03/2013	27/03/2013	14/04/2013	8.33	517	156	
Weekly	25/03/2013	02/04/2013	14/04/2013	6.09	520	210	pH reading taken in lab was 8.27
Weekly	02/04/2013	15/04/2013	14/05/2013	8.24	401	128	
Weekly	11/04/2013	19/04/2013	14/05/2013	8.16	522	39	
Weekly	17/04/2013	24/04/2013	14/05/2013	8.13	532	92	
Weekly	23/04/2013	01/05/2013	14/05/2013	8.10	545	152	
Weekly	29/04/2013	06/05/2013	14/05/2013	8.45	551	42	
Weekly	08/05/2013	15/05/2013	14/06/2013	8.42	583	152	
Weekly	14/05/2013	21/05/2013	14/06/2013	7.98	553	128	
Weekly	20/05/2013	29/05/2013	14/06/2013	8.29	596	62	
Weekly	29/05/2013	05/06/2013	14/06/2013	8.58	557	43	
Weekly	03/06/2013	12/06/2013	14/07/2013	8.13	583	52	
Weekly	11/06/2013	19/06/2013	14/07/2013	8.05	434	186	
Weekly	18/06/2013	21/06/2013	14/07/2013	8.14	525	252	
Weekly	27/06/2013	04/07/2013	14/07/2013	8.86	517	132	
Weekly	01/07/2013	12/07/2013	14/08/2013	8.27	462	114	
Weekly	09/07/2013	15/07/2013	14/08/2013	6.48	492	214	pH reading taken in lab was 8.38
Weekly	16/07/2013	19/07/2013	14/08/2013	8.26	506	211	
Weekly	24/07/2013	30/07/2013	14/08/2013	8.35	512	94	
Weekly	31/07/2013	07/08/2013	14/08/2013	8.61	493	129	
Weekly	06/08/2013	13/08/2013	14/09/2013	8.47	444	88	
Weekly	13/08/2013	20/08/2013	14/09/2013	8.35	513	114	
Weekly	19/08/2013	29/08/2013	14/09/2013	8.52	526	76	
Weekly	27/08/2013	03/09/2013	14/09/2013	8.46	503	53	
Weekly	03/09/2013	11/09/2013	14/10/2013	8.44	522	74	
Weekly	11/09/2013	17/09/2013	14/10/2013	8.13	505	96	
Weekly	18/09/2013	24/09/2013	14/10/2013	8.40	510	95	
Weekly	24/09/2013	30/09/2013	14/10/2013	8.41	509	70	
Weekly	02/10/2013	16/10/2013	14/11/2013	7.81	501	86	

Weekly	09/10/2013	15/10/2013	14/11/2013	8.69	523	84	
Weekly	16/10/2013	22/10/2013	14/11/2013	8.25	525	168	
Weekly	23/10/2013	30/10/2013	14/11/2013	8.26	583	234	
Weekly	30/10/2013	06/11/2013	14/11/2013	8.65	592	314	
Weekly	04/11/2013	14/11/2013	14/12/2013	8.59	647	599	
Weekly	13/11/2013	20/11/2013	14/12/2013	8.59	637	64	
Weekly	19/11/2013	27/11/2013	14/12/2013	8.60	667	94	
Weekly	25/11/2013	04/12/2013	14/12/2013	8.75	653	46	
Weekly	02/12/2013	10/12/2013	14/01/2014	8.63	765	148	
Weekly	11/12/2013	18/12/2013	14/01/2014	8.62	730	193	
Weekly	16/12/2013	24/12/2013	14/01/2014	8.61	746	235	
Weekly	23/12/2013	31/12/2013	14/01/2014	8.65	791	90	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	02/01/2013	11/01/2013	14/02/2013	117	0.004	< 0.0001	0.008	< 0.001	< 0.0001	< 0.01	0.021	
Quarterly	02/04/2013	15/04/2013	14/05/2013	170	0.010	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.007	
Quarterly	01/07/2013	12/07/2013	14/08/2013	160	0.006	< 0.0001	0.003	< 0.001	< 0.0001	< 0.01	< 0.005	
Quarterly	02/10/2013	16/10/2013	14/11/2013	164	0.008	< 0.0001	0.005	< 0.001	< 0.0001	< 0.01	0.011	

Monitoring Point: 17 <B1>

Ambient water quality monitoring, Surface water point within ML1535 on Lake Cowal

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	11/01/2013	14/02/2013	7.81	335	392	
Weekly	09/01/2013	17/01/2013	14/02/2013	8.42	377	360	
Weekly	16/01/2013	24/01/2013	14/02/2013	8.19	372	402	
Weekly	23/01/2013	31/01/2013	14/02/2013	8.18	395	294	
Weekly	30/01/2013	05/02/2013	14/02/2013	8.03	422	274	
Weekly	04/02/2013	11/02/2013	14/03/2013	8.16	418	195	
Weekly	13/02/2013	21/02/2013	14/03/2013	8.40	476	180	
Weekly	19/02/2013	21/02/2013	14/03/2013	8.29	518	155	
Weekly	25/02/2013	05/03/2013	14/03/2013	8.19	503	143	
Weekly	01/03/2013	12/03/2013	14/04/2013	8.29	485	674	Rainfall event
Weekly	04/03/2013	15/03/2013	14/04/2013	8.03	461	440	
Weekly	12/03/2013	20/03/2013	14/04/2013	8.35	495	217	
Weekly	20/03/2013	27/03/2013	14/04/2013	8.35	503	162	
Weekly	25/03/2013	02/04/2013	14/04/2013	6.74	518	200	pH reading taken in lab was 8.29
Weekly	02/04/2013	15/04/2013	14/05/2013	8.21	412	108	
Weekly	11/04/2013	19/04/2013	14/05/2013	8.30	514	46	
Weekly	17/04/2013	24/04/2013	14/05/2013	8.17	529	56	
Weekly	23/04/2013	01/05/2013	14/05/2013	8.42	546	132	
Weekly	29/04/2013	06/05/2013	14/05/2013	8.42	553	53	
Weekly	08/05/2013	15/05/2013	14/06/2013	8.62	573	162	
Weekly	14/05/2013	21/05/2013	14/06/2013	8.12	563	124	
Weekly	20/05/2013	29/05/2013	14/06/2013	8.42	585	80	
Weekly	29/05/2013	05/06/2013	14/06/2013	8.65	562	54	
Weekly	03/06/2013	12/06/2013	14/07/2013	8.17	585	48	
Weekly	11/06/2013	19/06/2013	14/07/2013	8.19	428	181	
Weekly	18/06/2013	21/06/2013	14/07/2013	8.40	531	190	
Weekly	27/06/2013	04/07/2013	14/07/2013	8.84	527	144	
Weekly	01/07/2013	12/07/2013	14/08/2013	8.27	474	138	
Weekly	09/07/2013	15/07/2013	14/08/2013	8.09	497	148	
Weekly	16/07/2013	19/07/2013	14/08/2013	8.21	498	184	
Weekly	24/07/2013	30/07/2013	14/08/2013	6.51	515	174	pH reading taken in lab was 8.38
Weekly	31/07/2013	07/08/2013	14/08/2013	8.62	491	110	
Weekly	06/08/2013	13/08/2013	14/09/2013	8.48	446	104	
Weekly	13/08/2013	20/08/2013	14/09/2013	8.14	514	107	
Weekly	19/08/2013	29/08/2013	14/09/2013	8.56	529	71	

Weekly	27/08/2013	03/09/2013	14/09/2013	8.82	516	53	
Weekly	03/09/2013	11/09/2013	14/10/2013	8.58	527	82	
Weekly	11/09/2013	17/09/2013	14/10/2013	8.10	524	113	
Weekly	18/09/2013	24/09/2013	14/10/2013	8.46	514	95	
Weekly	24/09/2013	30/09/2013	14/10/2013	8.44	523	68	
Weekly	02/10/2013	16/10/2013	14/11/2013	7.96	518	86	
Weekly	09/10/2013	15/10/2013	14/11/2013	8.76	527	100	
Weekly	16/10/2013	22/10/2013	14/11/2013	8.51	532	169	
Weekly	23/10/2013	30/10/2013	14/11/2013	8.66	590	200	
Weekly	30/10/2013	06/11/2013	14/11/2013	8.90	596	260	
Weekly	04/11/2013	14/11/2013	14/12/2013	8.59	656	552	
Weekly	13/11/2013	20/11/2013	14/12/2013	8.56	641	62	
Weekly	19/11/2013	27/11/2013	14/12/2013	8.66	643	102	
Weekly	25/11/2013	04/12/2013	14/12/2013	8.89	671	34	
Weekly	02/12/2013	10/12/2013	14/01/2014	8.60	774	204	
Weekly	11/12/2013	18/12/2013	14/01/2014	8.76	751	156	
Weekly	16/12/2013	24/12/2013	14/01/2014	8.66	777	210	
Weekly	23/12/2013	31/12/2013	14/01/2014	8.76	938	223	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	02/01/2013	11/01/2013	14/02/2013	117	0.004	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.020	
Quarterly	02/04/2013	15/04/2013	14/05/2013	172	0.008	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.010	
Quarterly	01/07/2013	12/07/2013	14/08/2013	163	0.009	< 0.0001	0.003	< 0.001	< 0.0001	< 0.01	< 0.005	
Quarterly	02/10/2013	16/10/2013	14/11/2013	171	0.007	< 0.0001	0.005	< 0.001	< 0.0001	< 0.01	0.030	

Monitoring Point: 18 <B5>

Ambient water quality monitoring, Surface water point on Lake Cowal to the south-east of ML1535 boundary

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Comments
Weekly	02/01/2013	11/01/2013	14/02/2013	7.87	343	336	
Weekly	09/01/2013	17/01/2013	14/02/2013	8.27	368	488	
Weekly	16/01/2013	24/01/2013	14/02/2013	8.25	361	254	
Weekly	23/01/2013	31/01/2013	14/02/2013	8.03	370	330	
Weekly	30/01/2013	05/02/2013	14/02/2013	8.19	403	270	
Weekly	04/02/2013	11/02/2013	14/03/2013	7.49	414	86	
Weekly	13/02/2013	21/02/2013	14/03/2013	8.27	427	72	
Weekly	19/02/2013	21/02/2013	14/03/2013	8.37	472	80	
Weekly	25/02/2013	05/03/2013	14/03/2013	8.21	521	210	
Weekly	01/03/2013	12/03/2013	14/04/2013	-	-	-	Rainfall event - sample not collected due to adverse weather on Lake Cowal
Weekly	04/03/2013	15/03/2013	14/04/2013	8.21	455	400	
Weekly	12/03/2013	20/03/2013	14/04/2013	8.23	480	147	
Weekly	20/03/2013	27/03/2013	14/04/2013	8.40	497	226	
Weekly	25/03/2013	02/04/2013	14/04/2013	7.04	514	194	pH reading taken in lab was 8.25
Weekly	02/04/2013	15/04/2013	14/05/2013	8.26	411	104	
Weekly	11/04/2013	19/04/2013	14/05/2013	8.27	505	54	
Weekly	17/04/2013	24/04/2013	14/05/2013	8.20	515	56	
Weekly	23/04/2013	01/05/2013	14/05/2013	8.27	524	172	
Weekly	29/04/2013	06/05/2013	14/05/2013	8.13	515	140	
Weekly	08/05/2013	15/05/2013	14/06/2013	8.42	565	140	
Weekly	14/05/2013	21/05/2013	14/06/2013	8.02	544	138	
Weekly	20/05/2013	29/05/2013	14/06/2013	8.33	561	102	
Weekly	29/05/2013	05/06/2013	14/06/2013	8.64	548	94	
Weekly	03/06/2013	12/06/2013	14/07/2013	8.20	565	53	
Weekly	11/06/2013	19/06/2013	14/07/2013	8.36	427	184	
Weekly	18/06/2013	21/06/2013	14/07/2013	8.29	541	112	
Weekly	27/06/2013	04/07/2013	14/07/2013	8.72	532	103	
Weekly	01/07/2013	12/07/2013	14/08/2013	8.32	456	125	
Weekly	09/07/2013	15/07/2013	14/08/2013	8.51	542	177	

Weekly	16/07/2013	19/07/2013	14/08/2013	8.16	464	193	
Weekly	24/07/2013	30/07/2013	14/08/2013	8.27	512	202	
Weekly	31/07/2013	07/08/2013	14/08/2013	8.02	474	142	
Weekly	06/08/2013	13/08/2013	14/09/2013	8.56	437	294	
Weekly	13/08/2013	20/08/2013	14/09/2013	8.37	511	248	
Weekly	19/08/2013	29/08/2013	14/09/2013	8.58	521	134	
Weekly	27/08/2013	03/09/2013	14/09/2013	8.73	506	55	
Weekly	03/09/2013	11/09/2013	14/10/2013	8.49	517	63	
Weekly	11/09/2013	17/09/2013	14/10/2013	7.14	508	167	
Weekly	18/09/2013	24/09/2013	14/10/2013	8.37	513	245	
Weekly	24/09/2013	30/09/2013	14/10/2013	8.36	510	134	
Weekly	02/10/2013	16/10/2013	14/11/2013	7.29	529	128	
Weekly	09/10/2013	15/10/2013	14/11/2013	7.68	413	107	
Weekly	16/10/2013	22/10/2013	14/11/2013	8.40	515	149	
Weekly	23/10/2013	30/10/2013	14/11/2013	8.44	567	314	
Weekly	30/10/2013	06/11/2013	14/11/2013	8.62	588	219	
Weekly	04/11/2013	14/11/2013	14/12/2013	8.49	647	797	
Weekly	13/11/2013	20/11/2013	14/12/2013	8.50	609	98	
Weekly	19/11/2013	27/11/2013	14/12/2013	8.57	661	101	
Weekly	25/11/2013	04/12/2013	14/12/2013	8.92	637	58	
Weekly	02/12/2013	10/12/2013	14/01/2014	8.60	736	158	
Weekly	11/12/2013	18/12/2013	14/01/2014	8.60	728	216	
Weekly	16/12/2013	24/12/2013	14/01/2014	8.67	755	128	
Weekly	23/12/2013	31/12/2013	14/01/2014	8.68	859	110	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Arsenic (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Zinc (mg/L)	Comments
Quarterly	02/01/2013	11/01/2013	14/02/2013	113	0.004	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.026	
Quarterly	02/04/2013	15/04/2013	14/05/2013	174	0.010	< 0.0001	0.004	< 0.001	< 0.0001	< 0.01	0.005	
Quarterly	01/07/2013	12/07/2013	14/08/2013	166	0.006	< 0.0001	0.002	< 0.001	< 0.0001	< 0.01	< 0.005	
Quarterly	02/10/2013	16/10/2013	14/11/2013	161	0.007	< 0.0001	0.005	< 0.001	< 0.0001	< 0.01	0.035	

Groundwater

EPL No: 11912 <http://www.environment.nsw.gov.au/prpoeoapp/>
 Licensee: Barrick (Cowan) Ltd
 Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 19 <P555A-R>

Groundwater quality monitoring, Piezometer located up gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2013	07/01/2013	14/02/2013	6.82	32770	21.120	
Monthly	01/02/2013	01/02/2013	14/03/2013	6.66	31150	21.085	
Monthly	07/03/2013	07/03/2013	14/04/2013	6.60	30890	21.142	
Monthly	16/04/2013	16/04/2013	14/05/2013	6.55	31520	21.071	
Monthly	02/05/2013	02/05/2013	14/06/2013	6.62	31840	21.076	
Monthly	11/06/2013	11/06/2013	14/07/2013	6.73	30850	21.068	
Monthly	17/07/2013	17/07/2013	14/08/2013	6.44	30730	21.074	
Monthly	02/08/2013	02/08/2013	14/09/2013	6.64	31210	21.073	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.73	31300	21.184	
Monthly	02/10/2013	02/10/2013	14/11/2013	6.70	32050	21.066	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.35	31840	21.161	
Monthly	03/12/2013	03/12/2013	14/01/2014	6.95	30680	21.087	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	07/01/2013	18/01/2013	14/02/2013	761	276	10300	826	30	7130	2980	4090	16	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	16/04/2013	29/04/2013	14/05/2013	183	294	9230	834	30	6100	2560	4170	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	17/07/2013	30/07/2013	14/08/2013	733	280	9100	835	40	6270	2480	4140	11	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	02/10/2013	16/10/2013	14/11/2013	779	318	10100	837	41	6330	2460	4240	38	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 20 <P555B>

Groundwater quality monitoring, Piezometer located up gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	-	-	-	-	-	-	Bore is dry

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bore is dry

Monitoring Point: 21 <P558A-R>

Groundwater quality monitoring, Piezometer located up gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2013	07/01/2013	14/02/2013	6.82	35820	19.697	
Monthly	01/02/2013	01/02/2013	14/03/2013	6.71	34230	19.650	
Monthly	07/03/2013	07/03/2013	14/04/2013	6.64	34080	19.700	
Monthly	16/04/2013	16/04/2013	14/05/2013	6.55	34750	19.685	
Monthly	02/05/2013	02/05/2013	14/06/2013	6.64	35160	19.742	
Monthly	11/06/2013	11/06/2013	14/07/2013	6.91	9676	18.982	Fresh water inflow following rain
Monthly	03/07/2013	03/07/2013	14/08/2013	6.80	27516	19.527	
Monthly	02/08/2013	02/08/2013	14/09/2013	6.72	22300	19.592	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.78	28680	19.672	
Monthly	02/10/2013	02/10/2013	14/11/2013	6.70	31220	19.473	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.34	32280	19.632	
Monthly	02/12/2013	02/12/2013	14/01/2014	6.85	31800	19.610	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	07/01/2013	18/01/2013	14/02/2013	696	248	11200	786	34	8220	3600	3600	70	<0.001	<0.001	<0.0001	0.022	<0.001	<0.01	<0.005	<0.004	
Quarterly	16/04/2013	29/04/2013	14/05/2013	710	278	9960	828	34	7170	3190	4100	12	<0.001	<0.001	<0.0001	0.020	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	178	53	2910	134	19	2180	816	684	149	<0.001	<0.001	<0.0001	0.006	<0.001	<0.01	0.053	<0.004	
Quarterly	02/10/2013	16/10/2013	14/11/2013	588	232	9220	643	42	6220	2440	3230	136	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	0.075	<0.004	

Monitoring Point: 22 <P412A-R>

Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	09/01/2013	09/01/2013	14/02/2013	6.69	35620	12.027	
Monthly	13/02/2013	13/02/2013	14/03/2013	6.45	45390	11.963	
Monthly	12/03/2013	12/03/2013	14/04/2013	6.41	44360	12.019	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.56	44630	12.113	
Monthly	15/05/2013	15/05/2013	14/06/2013	6.54	41510	12.052	
Monthly	21/06/2013	21/06/2013	14/07/2013	6.57	43720	12.022	
Monthly	04/07/2013	04/07/2013	14/08/2013	6.42	37839	12.011	
Monthly	07/08/2013	07/08/2013	14/09/2013	6.44	44400	11.925	
Monthly	09/09/2013	09/09/2013	14/10/2013	6.48	45440	11.973	
Monthly	16/10/2013	16/10/2013	14/11/2013	6.55	45860	11.940	
Monthly	14/11/2013	14/11/2013	14/12/2013	6.78	43930	11.932	
Monthly	16/12/2013	16/12/2013	14/01/2014	6.49	45030	11.912	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	09/01/2013	18/01/2013	14/02/2013	400	521	11600	1070	48	7260	3320	5710	11	<0.001	<0.001	0.0011	0.013	<0.001	<0.01	<0.005	<0.004	
Quarterly	12/04/2013	24/04/2013	14/05/2013	490	820	13700	1700	72	7420	3890	9050	30	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	04/07/2013	17/07/2013	14/08/2013	440	643	13900	1500	7780	8450	3870	7780	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	16/10/2013	25/10/2013	14/11/2013	522	695	14500	1500	80	8990	3800	7910	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 23 <P412B>

Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	-	-	-	-	-	-	Bore is dry

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments	
Quarterly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bore is dry

Monitoring Point: 24 <P414A>

Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2013	08/01/2013	14/02/2013	6.76	42840	13.428	
Monthly	13/02/2013	13/02/2013	14/03/2013	6.61	41730	13.574	
Monthly	11/03/2013	11/03/2013	14/04/2013	6.59	40700	13.523	
Monthly	17/04/2013	17/04/2013	14/05/2013	6.55	41470	13.464	
Monthly	14/05/2013	14/05/2013	14/06/2013	6.68	40300	13.406	
Monthly	03/06/2013	03/06/2013	14/07/2013	6.71	40650	13.472	
Monthly	04/07/2013	04/07/2013	14/08/2013	6.60	35860	13.393	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.66	41100	13.188	
Monthly	05/09/2013	05/09/2013	14/10/2013	6.70	41520	13.403	
Monthly	17/10/2013	17/10/2013	14/11/2013	6.74	41950	13.241	
Monthly	01/11/2013	01/11/2013	14/12/2013	6.61	41800	13.357	
Monthly	06/12/2013	06/12/2013	14/01/2014	6.73	40270	13.343	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	08/01/2013	18/01/2013	14/02/2013	569	405	14200	1400	50	9160	3620	6780	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	17/04/2013	29/04/2013	14/05/2013	576	495	12600	1470	51	7490	3150	7290	6	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	04/07/2013	17/07/2013	14/08/2013	526	438	13300	1420	63	7880	3120	6940	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	17/10/2013	25/10/2013	14/11/2013	603	485	13300	1390	64	8200	3100	6940	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	

Monitoring Point: 25 <P414B>
Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	18/01/2013	18/01/2013	14/02/2013	6.68	40770	13.526	
Monthly	04/02/2013	04/02/2013	14/03/2013	6.71	41240	13.615	
Monthly	11/03/2013	11/03/2013	14/04/2013	6.60	40080	13.555	
Monthly	29/04/2013	29/04/2013	14/05/2013	6.14	41160	13.500	
Monthly	27/05/2013	27/05/2013	14/06/2013	6.70	40550	13.547	
Monthly	17/06/2013	17/06/2013	14/07/2013	6.91	40990	13.421	
Monthly	11/07/2013	11/07/2013	14/08/2013	6.64	40870	13.526	
Monthly	26/08/2013	26/08/2013	14/09/2013	6.67	41250	13.459	
Monthly	11/09/2013	11/09/2013	14/10/2013	6.55	41170	13.365	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.72	42480	13.450	
Monthly	12/11/2013	12/11/2013	14/12/2013	6.93	40020	13.325	
Monthly	12/12/2013	12/12/2013	14/01/2014	6.76	40650	13.320	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	18/01/2013	31/01/2013	14/02/2013	545	305	12100	1300	32	7410	3280	6110	96	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	30/04/2013	08/05/2013	14/05/2013	507	287	12500	1210	41	6910	3200	5700	26	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	11/07/2013	24/07/2013	14/08/2013	481	415	13400	1400	48	8720	3800	6800	45	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	15/10/2013	25/10/2013	14/11/2013	565	430	13300	1400	41	8200	3100	6840	51	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	

Monitoring Point: 26 <PP03>
Groundwater quality monitoring, Piezometer located near the processing plant area

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	21/01/2013	21/01/2013	14/02/2013	6.96	8088	16.803	
Monthly	15/02/2013	15/02/2013	14/03/2013	6.99	8118	16.850	
Monthly	15/03/2013	15/03/2013	14/04/2013	7.81	9280	16.851	
Monthly	02/04/2013	02/04/2013	14/05/2013	7.25	8367	16.788	
Monthly	28/05/2013	28/05/2013	14/06/2013	6.54	9499	16.918	
Monthly	21/06/2013	21/06/2013	14/07/2013	7.39	9180	17.035	
Monthly	22/07/2013	22/07/2013	14/08/2013	7.08	7895	17.002	
Monthly	09/08/2013	09/08/2013	14/09/2013	7.30	6949	16.993	
Monthly	11/09/2013	11/09/2013	14/10/2013	6.56	43440	17.052	EC reading is under investigation
Monthly	21/10/2013	21/10/2013	14/11/2013	7.27	9076	16.880	EC reading from September assumed to be an incorrect record in the field
Monthly	14/11/2013	14/11/2013	14/12/2013	7.52	7483	17.001	
Monthly	17/12/2013	17/12/2013	14/01/2014	7.36	7531	16.898	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	21/01/2013	31/01/2013	14/02/2013	145	107	1770	169	17	1240	928	963	18	<0.001	<0.001	<0.0001	0.004	<0.001	<0.001	0.031	<0.004	
Quarterly	02/04/2013	24/04/2013	14/05/2013	138	125	1860	180	27	1500	1130	1050	17	0.001	<0.001	<0.0001	0.005	<0.001	<0.001	0.046	<0.005	
Quarterly	22/07/2013	30/07/2013	14/08/2013	161	135	2080	167	22	1500	942	1020	<5	<0.001	<0.001	0.0001	0.003	<0.001	<0.001	0.025	<0.004	
Quarterly	14/11/2013	25/11/2013	14/12/2013	125	126	1920	135	21	1400	807	870	10	<0.001	<0.001	<0.0001	0.003	<0.001	<0.001	0.04	<0.004	

Monitoring Point: 27 <PP04>
Groundwater quality monitoring, Piezometer located near the processing plant area

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	22/01/2013	22/01/2013	14/02/2013	6.29	47280	14.692	
Monthly	18/02/2013	18/02/2013	14/03/2013	6.29	48010	14.623	
Monthly	15/03/2013	15/03/2013	14/04/2013	6.59	39070	14.923	
Monthly	02/04/2013	02/04/2013	14/05/2013	6.70	46680	14.992	
Monthly	23/05/2013	23/05/2013	14/06/2013	6.54	46250	15.128	
Monthly	25/06/2013	25/06/2013	14/07/2013	6.81	46620	15.257	
Monthly	22/07/2013	22/07/2013	14/08/2013	6.35	44830	15.376	
Monthly	09/08/2013	09/08/2013	14/09/2013	6.64	47050	15.427	
Monthly	09/09/2013	09/09/2013	14/10/2013	6.51	47020	15.468	
Monthly	21/10/2013	21/10/2013	14/11/2013	6.51	48030	15.580	
Monthly	14/11/2013	14/11/2013	14/12/2013	6.79	44580	15.655	
Monthly	17/12/2013	17/12/2013	14/01/2014	6.70	47400	15.768	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	22/01/2013	01/02/2013	14/02/2013	467	664	16600	1540	61	9800	2720	8000	2900	<0.001	<0.001	<0.0001	0.064	<0.001	<0.001	0.074	<0.004	
Quarterly	02/04/2013	24/04/2013	14/05/2013	432	714	14000	1740	72	7660	3230	8950	4050	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	0.077	<0.004	
Quarterly	22/07/2013	30/07/2013	14/08/2013	433	698	15500	1610	76	8700	3460	8370	772	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	
Quarterly	14/11/2013	25/11/2013	14/12/2013	418	764	16700	1660	76	9750	3300	8740	100	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.005	<0.004	

Monitoring Point: 30 <P417A>
Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2013	08/01/2013	14/02/2013	6.58	46540	12.923	
Monthly	01/02/2013	01/02/2013	14/03/2013	6.50	44530	12.928	
Monthly	08/03/2013	08/03/2013	14/04/2013	6.45	44420	12.953	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.49	44340	12.950	
Monthly	14/05/2013	14/05/2013	14/06/2013	6.57	44050	12.898	

Monthly	03/06/2013	03/06/2013	14/07/2013	6.59	44390	12.926	
Monthly	04/07/2013	04/07/2013	14/08/2013	6.51	37433	12.877	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.52	44910	12.852	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.59	45330	12.918	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.56	45960	12.838	
Monthly	01/11/2013	01/11/2013	14/12/2013	6.49	45420	12.833	
Monthly	02/12/2013	02/12/2013	14/01/2014	6.54	43780	12.884	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	08/01/2013	18/01/2013	14/02/2013	461	585	16200	1530	43	9670	3660	7760	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	12/04/2013	24/04/2013	14/05/2013	462	690	14100	1760	52	7810	3240	8970	18	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	04/07/2013	17/07/2013	14/08/2013	424	625	14200	1690	59	8080	3200	8520	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	10/10/2013	22/10/2013	14/11/2013	445	652	15600	1620	49	9140	2970	8300	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 31 <P417B>

Groundwater quality monitoring, Piezometer located down gradient of southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	18/01/2013	18/01/2013	14/02/2013	6.81	40370	12.885	
Monthly	04/02/2013	04/02/2013	14/03/2013	6.90	40740	12.948	
Monthly	11/03/2013	11/03/2013	14/04/2013	6.85	41080	12.951	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.62	38620	12.911	
Monthly	27/05/2013	27/05/2013	14/06/2013	6.64	38130	12.912	
Monthly	17/06/2013	17/06/2013	14/07/2013	6.71	38890	12.914	
Monthly	11/07/2013	11/07/2013	14/08/2013	6.69	38670	12.908	
Monthly	26/08/2013	26/08/2013	14/09/2013	6.55	39240	12.875	
Monthly	11/09/2013	11/09/2013	14/10/2013	6.71	40120	12.825	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.61	40920	12.877	
Monthly	12/11/2013	12/11/2013	14/12/2013	6.92	39000	12.818	
Monthly	12/12/2013	12/12/2013	14/01/2014	6.87	38410	12.818	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	18/01/2013	31/01/2013	14/02/2013	221	405	12100	1290	23	6940	2300	6320	5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	12/04/2013	24/04/2013	14/05/2013	219	586	12200	1530	34	6580	2530	7760	24	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	11/07/2013	24/07/2013	14/08/2013	205	446	12500	1160	31	6290	2360	5890	7	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	15/10/2013	25/10/2013	14/11/2013	222	534	13600	1390	32	7940	2650	7060	6	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 32 <P418A>

Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2013	07/01/2013	14/02/2013	6.59	46440	10.803	
Monthly	01/02/2013	01/02/2013	14/03/2013	6.40	44130	10.777	
Monthly	07/03/2013	07/03/2013	14/04/2013	6.38	44070	10.793	
Monthly	16/04/2013	16/04/2013	14/05/2013	6.34	44780	10.730	
Monthly	02/05/2013	02/05/2013	14/06/2013	6.41	45330	10.781	
Monthly	18/06/2013	18/06/2013	14/07/2013	6.53	43870	10.694	
Monthly	03/07/2013	03/07/2013	14/08/2013	6.45	38754	10.706	
Monthly	01/08/2013	01/08/2013	14/09/2013	6.51	43620	10.670	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.52	45420	10.721	
Monthly	02/10/2013	02/10/2013	14/11/2013	6.42	46130	10.648	
Monthly	01/11/2013	01/11/2013	14/12/2013	6.43	46030	10.664	
Monthly	02/12/2013	02/12/2013	14/01/2014	6.58	44460	10.668	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	07/01/2013	18/01/2013	14/02/2013	588	361	15300	1180	24	10400	4800	5760	42	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	16/04/2013	29/04/2013	14/05/2013	598	410	13200	1300	26	9000	4500	6380	32	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	537	499	13600	1440	32	8950	4270	7180	22	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	02/10/2013	16/10/2013	14/11/2013	596	455	16200	1330	35	10200	4430	6610	22	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 33 <P418B>

Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2013	07/01/2013	14/02/2013	6.64	43780	10.753	
Monthly	01/02/2013	01/02/2013	14/03/2013	6.43	41800	10.708	
Monthly	07/03/2013	07/03/2013	14/04/2013	6.44	41700	10.741	
Monthly	16/04/2013	16/04/2013	14/05/2013	6.38	42010	10.672	
Monthly	02/05/2013	02/05/2013	14/06/2013	6.43	42820	10.726	
Monthly	18/06/2013	18/06/2013	14/07/2013	6.55	41500	10.651	
Monthly	03/07/2013	03/07/2013	14/08/2013	6.46	36554	10.661	
Monthly	01/08/2013	01/08/2013	14/09/2013	6.50	41030	10.626	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.53	42500	10.683	
Monthly	02/10/2013	02/10/2013	14/11/2013	6.41	43390	10.621	
Monthly	01/11/2013	01/11/2013	14/12/2013	6.42	43040	10.625	
Monthly	02/12/2013	02/12/2013	14/01/2014	6.57	41270	10.626	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	07/01/2013	18/01/2013	14/02/2013	523	267	13800	1110	11	10100	4620	5240	12	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	16/04/2013	29/04/2013	14/05/2013	532	289	12200	1180	12	8670	4340	5580	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	495	353	12400	1310	15	8410	4130	6280	15	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	02/10/2013	16/10/2013	14/11/2013	547	319	14600	1210	16	10100	3980	5780	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 34 <TSFNA>

Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	09/01/2013	09/01/2013	14/02/2013	6.73	50270	13.111	
Monthly	13/02/2013	13/02/2013	14/03/2013	6.59	49040	12.947	
Monthly	08/03/2013	08/03/2013	14/04/2013	6.52	48080	12.831	
Monthly	29/04/2013	29/04/2013	14/05/2013	6.12	48580	13.025	
Monthly	02/05/2013	02/05/2013	14/06/2013	6.55	49270	13.037	
Monthly	18/06/2013	18/06/2013	14/07/2013	6.62	47500	13.015	
Monthly	03/07/2013	03/07/2013	14/08/2013	6.60	41653	13.045	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.60	48270	13.042	
Monthly	06/09/2013	06/09/2013	14/10/2013	6.52	48850	13.084	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.62	49370	13.065	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.61	47260	13.079	
Monthly	06/12/2013	06/12/2013	14/01/2014	6.56	47390	13.038	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	09/01/2013	21/01/2013	14/02/2013	542	597	16900	1520	28	10400	4880	7750	6	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	29/04/2013	08/05/2013	14/05/2013	509	680	15400	1650	35	9540	4380	8490	7	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	465	756	15000	1770	40	8960	4490	9180	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	15/10/2013	25/10/2013	14/11/2013	546	652	15800	1640	33	10000	4430	8380	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	0.088	<0.004	

Monitoring Point: 34 <TSFNB>

Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	09/01/2013	09/01/2013	14/02/2013	6.60	47300	13.244	
Monthly	13/02/2013	13/02/2013	14/03/2013	6.46	46400	13.240	
Monthly	08/03/2013	08/03/2013	14/04/2013	6.40	45370	13.262	
Monthly	29/04/2013	29/04/2013	14/05/2013	5.98	45310	13.266	
Monthly	02/05/2013	02/05/2013	14/06/2013	6.49	46630	13.273	
Monthly	18/06/2013	18/06/2013	14/07/2013	6.50	44930	13.218	
Monthly	03/07/2013	03/07/2013	14/08/2013	6.47	39555	13.247	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.47	45710	13.174	
Monthly	06/09/2013	06/09/2013	14/10/2013	6.39	46170	13.263	
Monthly	16/10/2013	16/10/2013	14/11/2013	6.68	46500	13.222	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.57	44770	13.235	
Monthly	06/12/2013	06/12/2013	14/01/2014	6.46	44710	13.194	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	09/01/2013	21/01/2013	14/02/2013	254	429	15600	1400	55	9690	4650	6840	202	<0.001	<0.001	<0.0001	0.034	<0.001	<0.01	<0.005	<0.004	
Quarterly	29/04/2013	08/05/2013	14/05/2013	239	508	14500	1520	69	8890	4190	7530	225	<0.001	<0.001	<0.0001	0.032	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	220	557	14800	1660	76	8740	4230	8230	110	<0.001	<0.001	<0.0001	0.011	<0.001	<0.01	0.075	<0.004	
Quarterly	16/10/2013	25/10/2013	14/11/2013	261	457	15500	1550	93	10000	4300	7520	64	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	0.059	<0.004	

Monitoring Point: 34 <TSFNC>

Groundwater quality monitoring, Piezometer located down gradient of northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	09/01/2013	09/01/2013	14/02/2013	6.10	53180	13.387	
Monthly	13/02/2013	13/02/2013	14/03/2013	5.95	52030	13.520	
Monthly	08/03/2013	08/03/2013	14/04/2013	5.92	48250	13.477	
Monthly	29/04/2013	29/04/2013	14/05/2013	5.50	50320	13.476	
Monthly	02/05/2013	02/05/2013	14/06/2013	5.93	50740	13.494	
Monthly	18/06/2013	18/06/2013	14/07/2013	6.07	41820	13.363	
Monthly	03/07/2013	03/07/2013	14/08/2013	6.01	40372	13.421	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.00	46830	13.321	
Monthly	06/09/2013	06/09/2013	14/10/2013	5.91	48510	13.443	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.32	24760	13.418	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.05	39690	13.433	
Monthly	05/12/2013	05/12/2013	14/01/2014	6.11	45250	13.276	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	09/01/2013	21/01/2013	14/02/2013	130	562	18800	1680	62	11100	5580	8320	10	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	0.081	<0.004	
Quarterly	29/04/2013	08/05/2013	14/05/2013	123	613	16000	1710	78	9900	4660	8570	78	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	0.105	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	97	618	14800	1700	79	8910	4290	8540	18	<0.001	<0.001	<0.0001	0.086	<0.001	<0.01	0.087	<0.004	
Quarterly	16/10/2013	25/10/2013	14/11/2013	112	232	8200	641	48	5320	1720	3220	10	<0.001	<0.001	0.0001	0.004	<0.001	<0.01	0.055	<0.004	

Monitoring Point: 36 <PDB1A>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2013	08/01/2013	14/02/2013	6.52	55230	13.538	
Monthly	12/02/2013	12/02/2013	14/03/2013	6.32	53670	13.722	
Monthly	12/03/2013	12/03/2013	14/04/2013	6.32	52540	13.744	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.42	52390	13.839	
Monthly	14/05/2013	14/05/2013	14/06/2013	6.43	51820	13.871	
Monthly	17/06/2013	17/06/2013	14/07/2013	6.49	52380	13.788	
Monthly	17/07/2013	17/07/2013	14/08/2013	6.17	52100	13.840	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.39	52930	13.760	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.47	53490	13.606	
Monthly	02/10/2013	02/10/2013	14/11/2013	6.42	54030	13.624	
Monthly	05/11/2013	05/11/2013	14/12/2013	6.60	51710	13.742	
Monthly	03/12/2013	03/12/2013	14/01/2014	6.68	51900	13.575	

Frequency	Date Sampled	Date Obtained	Date Published	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Quarterly	08/01/2013	18/01/2013	14/02/2013	920	19700	1840	37	11300	4690	9870	<5	<0.001	<0.001	0.0021	<0.001	<0.001	<0.01	<0.005	
Quarterly	12/04/2013	24/04/2013	14/05/2013	1020	17200	2050	43	9150	4690	11000	26	<0.001	<0.001	0.0017	<0.001	<0.001	<0.01	<0.005	
Quarterly	17/07/2013	30/07/2013	14/08/2013	877	18000	1940	53	10300	4350	10200	<5	<0.001	<0.001	0.0014	<0.001	<0.001	<0.01	<0.005	
Quarterly	02/10/2013	16/10/2013	14/11/2013	1000	20000	1890	53	10700	4220	10300	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	

Monitoring Point: 36 <PDB1B>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	08/01/2013	08/01/2013	14/02/2013	6.29	51570	5.891	
Monthly	04/02/2013	04/02/2013	14/03/2013	6.13	49230	6.095	
Monthly	12/03/2013	12/03/2013	14/04/2013	6.06	49070	6.125	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.16	48950	6.215	
Monthly	14/05/2013	14/05/2013	14/06/2013	6.16	48490	6.228	
Monthly	17/06/2013	17/06/2013	14/07/2013	6.19	48880	6.143	
Monthly	17/07/2013	17/07/2013	14/08/2013	5.91	48720	6.073	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.12	49510	5.937	
Monthly	03/09/2013	03/09/2013	14/10/2013	6.21	50020	5.976	
Monthly	01/10/2013	01/10/2013	14/11/2013	6.14	50480	5.580	
Monthly	05/11/2013	05/11/2013	14/12/2013	6.26	48420	5.848	
Monthly	03/12/2013	03/12/2013	14/01/2014	6.42	48400	5.830	

Frequency	Date Sampled	Date Obtained	Date Published	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Quarterly	08/01/2013	18/01/2013	14/02/2013	769	18300	1790	29	10500	4680	9290	6	<0.001	<0.001	<0.0001	0.014	<0.001	<0.01	0.052	
Quarterly	12/04/2013	24/04/2013	14/05/2013	947	16200	2160	34	8600	4310	11200	26	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	
Quarterly	17/07/2013	30/07/2013	14/08/2013	745	16500	1900	39	9640	4210	9680	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	

Quarterly	01/10/2013	16/10/2013	14/11/2013	878	18200	1910	38	10100	3970	10000	< 5	< 0.001	< 0.001	< 0.0001	< 0.001	< 0.001	< 0.01	< 0.005	
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Monitoring Point: 38 <PDB3A>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	21/01/2013	21/01/2013	14/02/2013	5.97	48310	71.800	
Monthly	12/02/2013	12/02/2013	14/03/2013	5.93	49720	72.760	
Monthly	08/03/2013	08/03/2013	14/04/2013	5.95	49160	73.110	
Monthly	29/04/2013	29/04/2013	14/05/2013	5.58	50590	74.270	
Monthly	27/05/2013	27/05/2013	14/06/2013	6.08	48570	75.180	
Monthly	21/06/2013	21/06/2013	14/07/2013	6.17	49380	75.917	
Monthly	11/07/2013	11/07/2013	14/08/2013	6.05	47760	76.390	
Monthly	26/08/2013	26/08/2013	14/09/2013	6.41	48030	77.163	
Monthly	06/09/2013	06/09/2013	14/10/2013	6.20	50720	77.252	
Monthly	10/10/2013	10/10/2013	14/11/2013	6.23	50000	77.416	
Monthly	05/11/2013	05/11/2013	14/12/2013	6.35	49480	77.655	
Monthly	06/12/2013	06/12/2013	14/01/2014	6.45	51720	77.789	

Frequency	Date Sampled	Date Obtained	Date Published	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Quarterly	21/01/2013	31/01/2013	14/02/2013	933	14600	1900	64	7780	4280	10200	14	0.011	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	
Quarterly	29/04/2013	08/05/2013	14/05/2013	1330	17800	2270	108	9330	4530	12700	13	0.040	<0.001	<0.0001	<0.001	<0.001	<0.01	0.082	
Quarterly	11/07/2013	24/07/2013	14/08/2013	1130	17700	2050	81	9150	3910	11300	34	0.036	< 0.001	0.0049	0.033	< 0.001	< 0.01	0.593	
Quarterly	10/10/2013	22/10/2013	14/11/2013	1160	17600	2060	100	9640	4100	11400	34	0.047	< 0.001	0.0080	0.115	< 0.001	< 0.01	1.730	Zinc result is under investigation

Monitoring Point: 38 <PDB3B>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	09/01/2013	09/01/2013	14/02/2013	6.12	52970	16.921	
Monthly	01/02/2013	01/02/2013	14/03/2013	6.00	50540	17.003	
Monthly	07/03/2013	07/03/2013	14/04/2013	6.00	50410	17.118	
Monthly	17/04/2013	17/04/2013	14/05/2013	5.92	51110	17.239	
Monthly	27/05/2013	27/05/2013	14/06/2013	6.11	49810	17.377	
Monthly	21/06/2013	21/06/2013	14/07/2013	6.10	49880	17.403	
Monthly	11/07/2013	11/07/2013	14/08/2013	5.87	49550	17.454	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.04	50690	17.465	
Monthly	05/09/2013	05/09/2013	14/10/2013	6.10	50970	17.531	
Monthly	10/10/2013	10/10/2013	14/11/2013	6.02	51380	17.540	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.08	49380	17.595	
Monthly	02/12/2013	02/12/2013	14/01/2014	6.09	49400	17.646	

Frequency	Date Sampled	Date Obtained	Date Published	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Quarterly	09/01/2013	18/01/2013	14/02/2013	1070	19000	2180	60	10600	6560	11600	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	
Quarterly	17/04/2013	29/04/2013	14/05/2013	1160	16300	2280	61	8510	5210	12300	8	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	
Quarterly	11/07/2013	24/07/2013	14/08/2013	1090	17000	2260	73	9680	5760	12000	58	< 0.001	< 0.001	< 0.0001	< 0.001	< 0.001	< 0.01	< 0.005	
Quarterly	10/10/2013	22/10/2013	14/11/2013	1180	18200	2300	69	9900	4810	12400	8	< 0.001	< 0.001	< 0.0001	< 0.001	< 0.001	< 0.01	< 0.005	

Monitoring Point: 40 <PDB5A>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	10/01/2013	10/01/2013	14/02/2013	6.31	52090	25.162	
Monthly	04/02/2013	04/02/2013	14/03/2013	6.09	49370	25.287	
Monthly	12/03/2013	12/03/2013	14/04/2013	6.08	49190	25.590	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.16	49170	25.772	
Monthly	15/05/2013	15/05/2013	14/06/2013	6.18	48630	26.070	
Monthly	04/06/2013	04/06/2013	14/07/2013	6.25	49120	26.301	
Monthly	04/07/2013	04/07/2013	14/08/2013	6.13	43726	26.452	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.16	49880	26.596	
Monthly	09/09/2013	09/09/2013	14/10/2013	6.13	50370	26.718	
Monthly	11/10/2013	11/10/2013	14/11/2013	6.08	50660	26.780	
Monthly	05/11/2013	05/11/2013	14/12/2013	6.34	48960	26.886	
Monthly	13/12/2013	13/12/2013	14/01/2014	6.14	49330	27.088	

Frequency	Date Sampled	Date Obtained	Date Published	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Quarterly	10/01/2013	21/01/2013	14/02/2013	759	18200	1780	59	10300	3810	9220	<5	<0.001	<0.001	0.0033	<0.001	<0.001	<0.01	<0.005	
Quarterly	12/04/2013	24/04/2013	14/05/2013	879	16400	2030	63	7900	3410	10600	<5	<0.001	<0.001	0.0027	<0.001	<0.001	<0.01	<0.005	
Quarterly	04/07/2013	17/07/2013	14/08/2013	836	17300	2040	75	9080	3380	10500	< 5	< 0.001	< 0.001	0.0029	< 0.001	< 0.001	< 0.01	< 0.005	
Quarterly	11/10/2013	22/10/2013	14/11/2013	769	17000	1910	59	9400	3290	9780	< 5	< 0.001	< 0.001	0.0033	0.011	< 0.001	< 0.01	< 0.005	

Monitoring Point: 40 <PDB5B>

Groundwater quality monitoring, Pit dewatering bore

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	10/01/2013	10/01/2013	14/02/2013	6.01	51840	7.795	
Monthly	04/02/2013	04/02/2013	14/03/2013	5.83	49400	8.262	
Monthly	12/03/2013	12/03/2013	14/04/2013	5.80	49270	8.766	
Monthly	12/04/2013	12/04/2013	14/05/2013	5.88	49190	9.192	
Monthly	15/05/2013	15/05/2013	14/06/2013	5.91	48680	9.643	
Monthly	04/06/2013	04/06/2013	14/07/2013	5.98	49130	10.057	
Monthly	04/07/2013	04/07/2013	14/08/2013	5.87	43479	10.240	
Monthly	06/08/2013	06/08/2013	14/09/2013	5.87	49740	10.233	
Monthly	09/09/2013	09/09/2013	14/10/2013	5.84	50200	10.224	
Monthly	11/10/2013	11/10/2013	14/11/2013	5.81	50570	10.267	
Monthly	05/11/2013	05/11/2013	14/12/2013	6.07	48600	10.304	
Monthly	13/12/2013	13/12/2013	14/01/2014	5.84	48720	10.475	

Frequency	Date Sampled	Date Obtained	Date Published	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	Comments
Quarterly	10/01/2013	21/01/2013	14/02/2013	831	20000	1930	53	9880	4030	10000	101	<0.001	<0.001	0.0015	<0.001	<0.001	<0.01	<0.005	
Quarterly	12/04/2013	24/04/2013	14/05/2013	947	16500	2220	72	8230	3550	11500	43	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	
Quarterly	04/07/2013	17/07/2013	14/08/2013	935	17200	2190	82	9000	3570	11400	63	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.01	< 0.005	
Quarterly	11/10/2013	22/10/2013	14/11/2013	789	17200	1930	62	9660	3440	9920	8	< 0.001	< 0.001	0.0014	< 0.001	< 0.001	< 0.01	< 0.005	

Monitoring Point: 44 <MON01A>

Groundwater quality monitoring, Groundwater monitoring bore located to the east of the northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	07/01/2013	07/01/2013	14/02/2013	6.60	48510	12.268	
Monthly	04/02/2013	04/02/2013	14/03/2013	6.41	47170	12.258	
Monthly	11/03/2013	11/03/2013	14/04/2013	6.38	46060	12.256	
Monthly	17/04/2013	17/04/2013	14/05/2013	6.35	46950	12.218	
Monthly	15/05/2013	15/05/2013	14/06/2013	6.51	45580	12.195	
Monthly	17/06/2013	17/06/2013	14/07/2013	6.53	45980	12.134	
Monthly	04/07/2013	04/07/2013	14/08/2013	6.36	39035	12.168	
Monthly	06/08/2013	06/08/2013	14/09/2013	6.46	46560	12.128	
Monthly	05/09/2013	05/09/2013	14/10/2013	6.53	47060	12.165	
Monthly	10/10/2013	10/10/2013	14/11/2013	6.51	47460	12.085	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.49	45600	12.132	
Monthly	03/12/2013	03/12/2013	14/01/2014	6.95	45680	12.077	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	07/01/2013	18/01/2013	14/02/2013	312	473	15800	1420	31	10600	5040	7030	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	17/04/2013	29/04/2013	14/05/2013	314	502	14200	1490	32	9290	4920	7390	6	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	04/07/2013	17/07/2013	14/08/2013	283	427	14000	1450	46	9400	4730	7040	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	10/10/2013	22/10/2013	14/11/2013	308	535	15600	1510	36	10300	4720	7550	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 44 <MON01B>

Groundwater quality monitoring, Groundwater monitoring bore located to the east of the northern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	18/01/2013	18/01/2013	14/02/2013	5.63	43810	13.704	
Monthly	04/02/2013	04/02/2013	14/03/2013	5.63	44180	13.832	
Monthly	11/03/2013	11/03/2013	14/04/2013	6.02	34880	13.773	
Monthly	29/04/2013	29/04/2013	14/05/2013	5.10	43500	13.727	
Monthly	27/05/2013	27/05/2013	14/06/2013	5.26	45030	13.800	
Monthly	17/06/2013	17/06/2013	14/07/2013	5.46	5516	13.580	Fresh water inflow following rain
Monthly	11/07/2013	11/07/2013	14/08/2013	6.10	17770	13.775	
Monthly	26/08/2013	26/08/2013	14/09/2013	6.38	17390	13.721	
Monthly	11/09/2013	11/09/2013	14/10/2013	5.65	24340	13.606	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.12	36930	13.718	
Monthly	12/11/2013	12/11/2013	14/12/2013	5.82	35530	13.627	
Monthly	12/12/2013	12/12/2013	14/01/2014	6.53	34530	13.622	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	18/01/2013	31/01/2013	14/02/2013	25	351	12500	1240	39	7740	4020	5980	15	<0.001	<0.001	<0.0001	<0.001	0.012	<0.01	0.127	<0.004	
Quarterly	29/04/2013	08/05/2013	14/05/2013	48	442	14600	1230	57	9260	3620	6170	34	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	0.090	<0.004	
Quarterly	11/07/2013	24/07/2013	14/08/2013	55	122	5410	382	27	3450	1440	1880	98	<0.001	0.001	0.0002	0.005	0.001	<0.01	0.081	<0.004	
Quarterly	15/10/2013	25/10/2013	14/11/2013	42	304	9910	918	41	6510	2800	4540	<5	<0.001	0.002	0.0002	0.005	0.003	<0.01	0.089	<0.004	

Monitoring Point: 45 <MON02A>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	17/01/2013	17/01/2013	14/02/2013	6.53	39960	13.601	
Monthly	12/02/2013	12/02/2013	14/03/2013	6.64	40880	13.576	
Monthly	12/03/2013	12/03/2013	14/04/2013	6.59	39940	13.523	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.73	39860	13.522	
Monthly	15/05/2013	15/05/2013	14/06/2013	6.71	39540	13.451	
Monthly	03/06/2013	03/06/2013	14/07/2013	6.71	39960	13.439	
Monthly	03/07/2013	03/07/2013	14/08/2013	6.66	34990	13.346	
Monthly	07/08/2013	07/08/2013	14/09/2013	6.61	40390	13.142	
Monthly	06/09/2013	06/09/2013	14/10/2013	6.60	40780	13.220	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.70	41060	13.120	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.62	39500	12.988	
Monthly	04/12/2013	04/12/2013	14/01/2014	6.51	39520	12.894	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	17/01/2013	31/01/2013	14/02/2013	704	266	11700	1060	43	7220	3370	5030	20	<0.001	<0.001	<0.0001	0.014	<0.001	<0.01	<0.005	<0.004	
Quarterly	12/04/2013	24/04/2013	14/05/2013	666	538	12200	1460	74	7260	3360	7360	<5	<0.001	<0.001	<0.0001	<0.0001	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	612	524	12800	1370	71	7700	3250	6950	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	15/10/2013	25/10/2013	14/11/2013	707	484	13000	1310	63	8300	3210	6600	<5	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	

Monitoring Point: 45 <MON02B>

Groundwater quality monitoring, Groundwater monitoring bore located to the south of the southern tailings storage facility

Frequency	Date Sampled	Date Obtained	Date Published	pH (units)	Electrical Conductivity (µS/cm)	SWL (m)	Comments
Monthly	17/01/2013	17/01/2013	14/02/2013	6.71	29530	13.784	
Monthly	12/02/2013	12/02/2013	14/03/2013	6.78	34970	13.766	
Monthly	12/03/2013	12/03/2013	14/04/2013	6.81	29260	13.682	
Monthly	12/04/2013	12/04/2013	14/05/2013	6.87	34050	13.760	
Monthly	15/05/2013	15/05/2013	14/06/2013	6.85	35100	13.413	
Monthly	03/06/2013	03/06/2013	14/07/2013	7.26	7165	13.238	Fresh water inflow following rain
Monthly	03/07/2013	03/07/2013	14/08/2013	6.96	12808	13.320	
Monthly	07/08/2013	07/08/2013	14/09/2013	6.85	22910	13.120	
Monthly	06/09/2013	06/09/2013	14/10/2013	6.82	26040	13.168	
Monthly	15/10/2013	15/10/2013	14/11/2013	6.89	20770	13.041	
Monthly	04/11/2013	04/11/2013	14/12/2013	6.83	27320	13.032	
Monthly	04/12/2013	04/12/2013	14/01/2014	6.59	33020	13.032	

Frequency	Date Sampled	Date Obtained	Date Published	Alkalinity (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulphate (mg/L)	Total Hardness (mg/L)	Total Suspended Solids (mg/L)	Antimony (mg/L)	Arsenic (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)	WAD Cyanide (mg/L)	Comments
Quarterly	17/01/2013	31/01/2013	14/02/2013	645	175	8740	864	49	5160	2140	3990	176	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.01	<0.005	<0.004	
Quarterly	12/04/2013	24/04/2013	14/05/2013	672	382	9680	1240	87	5730	2580	6060	190	<0.001	<0.001	<0.0001	0.014	<0.001	<0.01	<0.005	<0.004	
Quarterly	03/07/2013	17/07/2013	14/08/2013	334	187	4840	532	49	2770	985	2660	85	<0.001	0.001	<0.0001	0.007	<0.001	<0.01	0.007	<0.004	
Quarterly	15/10/2013	25/10/2013	14/11/2013	467	208	6350	660	50	3930	1510	3240	68	<0.001	0.001	<0.0001	0.010	<0.001	<0.01	0.010	<0.004	

Waste Rock Leachate

EPA No: 13102 <http://www.environment.nsw.gov.au/monitoring>
 Licence: Benth 3 (CWA)134
 Address: PO Box 210 West Wyalung NSW 2071

Monitoring Point: 41 - Northern Waste Emplacement

Northern Waste Emplacement leachate quality monitoring, Northern Waste Emplacement External Top Drain

Frequency	Date Sampled	Date Observed	Date Published	pH (unit)	Electrical Conductivity (µS/cm)	DMS (pp)	Comments
Monthly	January						No water present in external top drain
Monthly	February						No water present in external top drain
Monthly	March						No water present in external top drain
Monthly	April						No water present in external top drain
Monthly	May						No water present in external top drain
Monthly	June						No water present in external top drain
Monthly	July						No water present in external top drain
Monthly	August						No water present in external top drain
Monthly	September						No water present in external top drain
Monthly	October						No water present in external top drain
Monthly	November						No water present in external top drain
Monthly	December						No water present in external top drain

Monitoring Point: 42 - Southern Waste Emplacement

Southern Waste Emplacement leachate quality monitoring, Northern Waste Emplacement External Top Drain

Frequency	Date Sampled	Date Observed	Date Published	pH (unit)	Electrical Conductivity (µS/cm)	DMS (pp)	Comments
Monthly	January						No water present in external top drain
Monthly	February						No water present in external top drain
Monthly	March						No water present in external top drain
Monthly	April						No water present in external top drain
Monthly	May						No water present in external top drain
Monthly	June						No water present in external top drain
Monthly	July						No water present in external top drain
Monthly	August						No water present in external top drain
Monthly	September						No water present in external top drain
Monthly	October						No water present in external top drain
Monthly	November						No water present in external top drain
Monthly	December						No water present in external top drain

Monitoring Point: 43 - Pelletizer Waste Emplacement

Northern Waste Emplacement leachate quality monitoring, Northern Waste Emplacement External Top Drain

Frequency	Date Sampled	Date Observed	Date Published	pH (unit)	Electrical Conductivity (µS/cm)	DMS (pp)	Comments
Monthly	January						No water present in external top drain
Monthly	February						No water present in external top drain
Monthly	March						No water present in external top drain
Monthly	April						No water present in external top drain
Monthly	May						No water present in external top drain
Monthly	June						No water present in external top drain
Monthly	July						No water present in external top drain
Monthly	August						No water present in external top drain
Monthly	September						No water present in external top drain
Monthly	October						No water present in external top drain
Monthly	November						No water present in external top drain
Monthly	December						No water present in external top drain

Monitoring Point: BM01

Real-time, actual overpressure and ground vibration peak particle velocity recorded at private residence at the south-east of M1535 boundary

Licensee: Bunk & Cowell Ltd

Address: PO Box 210 West Wyalonia NSW 2671

Blast Number	Day/Date	Time	Date Entered	Date Published	Compliance Limits		BM01 at Blast Time		Comments
					Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	
JANUARY									
084_50	Tuesday, 1/01/2013	12:44:40	07/02/2013	14/02/2013	5	115	na	94.0	Ground vibration sensor failed on 24/12/13, a replacement sensor is to be fitted mid January
1101_105A	Wednesday, 2/01/2013	12:32:00	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_559	Wednesday, 3/01/2013	13:05:30	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_521	Thursday, 3/01/2013	12:42:01	07/02/2013	14/02/2013	5	115	na	113.8	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_28	Thursday, 3/01/2013	12:43:30	07/02/2013	14/02/2013	5	115	na	104.2	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_522	Friday, 4/01/2013	12:40:03	07/02/2013	14/02/2013	5	115	na	97.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_130	Saturday, 5/01/2013	12:38:00	07/02/2013	14/02/2013	5	115	na	97.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_112	Saturday, 5/01/2013	12:40:10	07/02/2013	14/02/2013	5	115	na	97.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_88A	Saturday, 5/01/2013	12:40:10	07/02/2013	14/02/2013	5	115	na	97.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_58B	Monday, 7/01/2013	12:44:20	07/02/2013	14/02/2013	5	115	na	98.8	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_27	Monday, 7/01/2013	12:44:20	07/02/2013	14/02/2013	5	115	na	98.8	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_92D	Monday, 7/01/2013	12:48:53	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_45	Tuesday, 8/01/2013	12:57:00	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_46	Tuesday, 8/01/2013	12:57:00	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_28	Wednesday, 9/01/2013	12:22:00	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_44	Thursday, 10/01/2013	12:24:59	07/02/2013	14/02/2013	5	115	na	95.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_29	Friday, 11/01/2013	12:38:00	07/02/2013	14/02/2013	5	115	na	95.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_45	Saturday, 12/01/2013	12:46:07	07/02/2013	14/02/2013	5	115	na	98.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_42	Sunday, 13/01/2013	12:30:00	07/02/2013	14/02/2013	1	95	na	97.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13). Airblast overpressure exceedance was caused by localised environmental factors
084_30	Monday, 14/01/2013	12:37:00	07/02/2013	14/02/2013	5	115	na	101.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1135_07	Monday, 14/01/2013	12:57:00	07/02/2013	14/02/2013	5	115	na	100.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_43	Tuesday, 15/01/2013	12:30:00	07/02/2013	14/02/2013	5	115	na	99.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_114	Tuesday, 15/01/2013	12:30:00	07/02/2013	14/02/2013	5	115	na	94.0	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_21	Thursday, 17/01/2013	12:02:14	07/02/2013	14/02/2013	5	115	na	93.8	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_34	Saturday, 19/01/2013	12:54:00	07/02/2013	14/02/2013	5	115	na	113.8	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_117	Saturday, 19/01/2013	12:54:00	07/02/2013	14/02/2013	5	115	na	113.8	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_21	Sunday, 20/01/2013	12:38:35	07/02/2013	14/02/2013	5	95	na	95.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
084_31	Monday, 21/01/2013	12:55:20	07/02/2013	14/02/2013	5	115	na	93.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_116	Monday, 21/01/2013	12:55:20	07/02/2013	14/02/2013	5	115	na	93.5	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_20	Tuesday, 22/01/2013	12:58:02	07/02/2013	14/02/2013	5	115	na	95.9	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
075_26	Thursday, 24/01/2013	12:29:14	07/02/2013	14/02/2013	5	115	093.1	88.0	The replacement ground vibration sensor was fitted on Wednesday, 23 January
084_36	Friday, 25/01/2013	12:34:00	07/02/2013	14/02/2013	5	115	094.4	88.0	
075_26	Saturday, 26/01/2013	12:42:00	07/02/2013	14/02/2013	5	115	094.4	88.0	
084_38	Saturday, 26/01/2013	12:44:00	07/02/2013	14/02/2013	5	115	092.2	88.0	
084_38	Saturday, 26/01/2013	12:49:00	07/02/2013	14/02/2013	5	95	097.8	88.0	
075_27	Monday, 28/01/2013	12:30:58	07/02/2013	14/02/2013	5	115	097.8	84.0	
084_37	Monday, 28/01/2013	12:36:00	07/02/2013	14/02/2013	5	115	081.5	84.0	
075_27	Wednesday, 30/01/2013	12:36:28	07/02/2013	14/02/2013	5	115	081.1	94.0	
1101_118	Thursday, 31/01/2013	12:44:00	07/02/2013	14/02/2013	5	115	087.7	94.0	
FEBRUARY									
075_28	Monday, 2/02/2013	12:31:00	08/03/2013	14/03/2013	5	115	098.7	88.0	
075_40	Tuesday, 5/02/2013	12:29:00	08/03/2013	14/03/2013	5	115	098.7	88.0	
075_41	Thursday, 7/02/2013	12:45:00	08/03/2013	14/03/2013	5	115	094.4	83.0	
1101_95	Friday, 8/02/2013	12:36:00	08/03/2013	14/03/2013	5	115	092.2	84.0	
075_44	Saturday, 9/02/2013	12:44:14	08/03/2013	14/03/2013	5	115	094.4	84.0	
075_35	Tuesday, 12/02/2013	12:31:00	08/03/2013	14/03/2013	5	115	098.8	83.0	
075_41	Wednesday, 13/02/2013	12:34:00	08/03/2013	14/03/2013	5	115	093.1	83.0	
075_36	Thursday, 14/02/2013	12:47:00	08/03/2013	14/03/2013	5	115	081.1	94.0	
075_42	Saturday, 16/02/2013	12:44:00	08/03/2013	14/03/2013	5	115	na	na	Unit offline
075_43	Saturday, 16/02/2013	12:44:00	08/03/2013	14/03/2013	5	115	na	na	Unit offline
075_47	Monday, 18/02/2013	12:35:57	08/03/2013	14/03/2013	5	115	098.8	93.5	
075_29	Monday, 18/02/2013	12:41:04	08/03/2013	14/03/2013	5	115	098.8	93.5	
075_30	Wednesday, 20/02/2013	12:39:00	08/03/2013	14/03/2013	5	115	095.5	88.0	
075_27	Thursday, 21/02/2013	12:34:30	08/03/2013	14/03/2013	5	115	095.5	88.0	
075_28	Friday, 22/02/2013	12:42:00	08/03/2013	14/03/2013	5	115	095.5	88.0	
075_31	Saturday, 23/02/2013	12:40:00	08/03/2013	14/03/2013	5	115	097.8	106.0	
075_32	Monday, 25/02/2013	12:45:15	08/03/2013	14/03/2013	5	115	094.4	84.0	
084_40	Monday, 25/02/2013	12:35:35	08/03/2013	14/03/2013	5	115	097.8	93.5	
MARCH									
075_48	Sunday, 3/03/2013	12:37:00	05/04/2013	14/04/2013	1	95	099.0	101.0	Airblast overpressure exceedance was caused by localised environmental factors
075_24	Monday, 4/03/2013	12:40:00	05/04/2013	14/04/2013	5	115	088.0	95.9	
075_608A	Tuesday, 5/03/2013	12:43:30	05/04/2013	14/04/2013	5	115	090.0	91.0	
075_41	Tuesday, 5/03/2013	12:46:00	05/04/2013	14/04/2013	5	115	088.0	94.0	
084_24	Thursday, 7/03/2013	12:46:00	05/04/2013	14/04/2013	5	115	092.2	88.0	
075_521	Thursday, 7/03/2013	12:46:00	05/04/2013	14/04/2013	5	115	092.2	88.0	
075_514	Friday, 8/03/2013	12:32:00	05/04/2013	14/04/2013	5	115	090.0	88.0	
1101_89	Saturday, 9/03/2013	12:34:00	05/04/2013	14/04/2013	5	115	090.0	88.0	
075_516	Monday, 11/03/2013	12:28:45	05/04/2013	14/04/2013	5	115	093.1	88.0	
084_30	Monday, 11/03/2013	12:29:21	05/04/2013	14/04/2013	5	115	091.1	88.0	
075_515	Wednesday, 13/03/2013	12:35:44	05/04/2013	14/04/2013	5	115	091.1	91.5	
084_20	Thursday, 14/03/2013	12:35:44	05/04/2013	14/04/2013	5	115	091.1	91.5	
075_515	Thursday, 14/03/2013	12:38:44	05/04/2013	14/04/2013	5	115	091.1	91.5	
1101_90	Friday, 15/03/2013	12:32:19	05/04/2013	14/04/2013	5	115	093.1	91.5	
084_30	Friday, 15/03/2013	12:34:00	05/04/2013	14/04/2013	5	115	091.1	91.5	
075_29	Saturday, 16/03/2013	12:28:30	05/04/2013	14/04/2013	1	95	090.0	95.9	Airblast overpressure exceedance was caused by localised environmental factors
075_17	Monday, 18/03/2013	12:49:00	05/04/2013	14/04/2013	5	115	090.0	91.5	
1101_92	Monday, 18/03/2013	12:49:00	05/04/2013	14/04/2013	5	115	090.0	91.5	
075_507	Tuesday, 19/03/2013	12:44:51	05/04/2013	14/04/2013	5	115	090.0	91.5	
1101_93	Tuesday, 19/03/2013	12:44:51	05/04/2013	14/04/2013	5	115	090.0	91.5	
075_518A_518B	Thursday, 21/03/2013	12:57:25	05/04/2013	14/04/2013	5	115	090.0	100.2	A replacement ground vibration sensor is to be fitted mid January (replacement fitted 23/1/13)
1101_119	Thursday, 21/03/2013	12:58:00	05/04/2013	14/04/2013	5	115	090.0	100.0	
084_47	Saturday, 23/03/2013	12:57:32	05/04/2013	14/04/2013	5	115	093.1	91.5	
1101_120	Saturday, 23/03/2013	12:26:28	05/04/2013	14/04/2013	1	95	091.1	88.0	
084_46	Sunday, 24/03/2013	12:30:00	05/04/2013	14/04/2013	1	95	090.0	88.0	
075_38_39	Monday, 25/03/2013	12:32:00	05/04/2013	14/04/2013	5	115	091.1	88.0	
1101_121	Tuesday, 26/03/2013	12:27:39	05/04/2013	14/04/2013	1	95	090.0	88.0	
084_44	Tuesday, 26/03/2013	12:27:39	05/04/2013	14/04/2013	1	95	090.0	88.0	
075_49	Thursday, 27/03/2013	12:37:45	05/04/2013	14/04/2013	5	115	091.1	88.0	
084_45	Wednesday, 27/03/2013	12:37:45	05/04/2013	14/04/2013	5	115	091.1	100.8	
075_509	Thursday, 28/03/2013	12:29:14	05/04/2013	14/04/2013	5	115	093.1	97.5	
084_43	Thursday, 28/03/2013	12:31:00	05/04/2013	14/04/2013	5	115	090.0	97.5	
1101_122	Friday, 29/03/2013	12:28:12	05/04/2013	14/04/2013	1	95	090.0	91.5	
1101_108	Saturday, 30/03/2013	12:33:00	05/04/2013	14/04/2013	1	95	090.0	91.5	
1101_110	Saturday, 30/03/2013	12:35:00	05/04/2013	14/04/2013	1	95	090.0	91.5	
1101_111	Sunday, 31/03/2013	12:26:00	05/04/2013	14/04/2013	1	95	090.0	91.5	
084_44	Sunday, 31/03/2013	12:27:30	05/04/2013	14/04/2013	1	95	090.0	91.5	
APRIL									
1101_124	Monday, 1/04/2013	12:30:20	08/05/2013	14/05/2013	1	95	094.4	88.0	
084_27_28	Tuesday, 2/04/2013	12:04:35	08/05/2013	14/05/2013	5	115	096.8	106.8	
075_510	Tuesday, 2/04/2013	12:04:35	08/05/2013	14/05/2013	5	115	096.8	91.5	
075_510B	Wednesday, 3/04/2013	12:30:00	08/05/2013	14/05/2013	5	115	096.8	88.0	
084_25	Wednesday, 3/04/2013	12:31:55	08/05/2013	14/05/2013	5	115			

Blst Number	Day/Date	Time	Date Obtained	Date Published	Ground Vibration (mm/s)	Airblast Overpressure (kPa)	Ground Vibration (mm/s)	Airblast Overpressure (kPa)	Comments
1065 427	Tuesday, 22/10/2013	12:20:51	06/11/2013	14/11/2013	5	115	0.100	106.0	
1065 428	Wednesday, 23/10/2013	12:20:51	06/11/2013	14/11/2013	5	115	0.110	99.0	
1065 430	Friday, 24/10/2013	12:20:50	06/11/2013	14/11/2013	5	115	0.100	108.0	
1065 431	Friday, 25/10/2013	12:31:00	06/11/2013	14/11/2013	5	115	0.100	91.5	
1065 71	Monday, 28/10/2013	12:24:29	06/11/2013	14/11/2013	5	115	0.120	98.0	
1065 82	Sunday, 27/10/2013	12:27:58	06/11/2013	14/11/2013	1	95	0.100	91.5	
1074 304	Monday, 27/10/2013	12:28:16	06/11/2013	14/11/2013	5	115	0.100	99.5	
1074 403	Monday, 28/10/2013	12:11:55	06/11/2013	14/11/2013	5	115	0.100	104.4	
1074 477	Monday, 28/10/2013	12:13:25	06/11/2013	14/11/2013	5	115	0.110	97.5	
1065 73	Thursday, 30/10/2013	12:32:51	06/11/2013	14/11/2013	5	115	0.100	96.5	
NOVEMBER									
1074 478	Friday, 1/11/2013	12:03:52	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 479	Friday, 1/11/2013	12:05:49	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 480	Sunday, 3/11/2013	12:40:00	06/11/2013	14/11/2013	1	95	0.120	97.5	Airblast overpressure exceedance was caused by localized environmental factors
1074 481	Monday, 4/11/2013	12:44:29	06/11/2013	14/11/2013	1	95	0.120	98.0	Airblast overpressure exceedance was caused by localized environmental factors
1074 482	Monday, 4/11/2013	12:44:41	06/11/2013	14/11/2013	5	115	0.100	99.0	
1067 540	Monday, 4/11/2013	12:44:47	06/11/2013	14/11/2013	5	115	0.110	98.0	
1067 548	Tuesday, 5/11/2013	12:35:35	06/11/2013	14/11/2013	5	115	0.140	94.0	
1065 74	Thursday, 7/11/2013	12:35:46	06/11/2013	14/11/2013	5	115	0.140	94.0	
1065 70	Thursday, 7/11/2013	12:36:53	06/11/2013	14/11/2013	5	115	0.100	98.8	
1065 83	Thursday, 7/11/2013	12:36:53	06/11/2013	14/11/2013	5	115	0.100	98.8	
1074 483	Friday, 8/11/2013	12:36:50	06/11/2013	14/11/2013	5	115	0.100	104.0	
1065 75	Saturday, 9/11/2013	12:27:11	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 484	Sunday, 10/11/2013	12:27:00	06/11/2013	14/11/2013	1	95	0.100	91.5	
1067 549	Monday, 11/11/2013	12:27:45	06/11/2013	14/11/2013	5	115	0.100	100.0	
1074 485	Tuesday, 12/11/2013	12:28:00	06/11/2013	14/11/2013	5	115	0.100	99.5	
1074 486	Tuesday, 12/11/2013	12:28:00	06/11/2013	14/11/2013	5	115	0.100	91.5	
1065 84	Wednesday, 13/11/2013	12:30:15	06/11/2013	14/11/2013	5	115	0.120	95.0	
1074 487	Thursday, 14/11/2013	12:35:36	06/11/2013	14/11/2013	5	115	0.110	94.0	
1065 848	Thursday, 14/11/2013	12:35:54	06/11/2013	14/11/2013	5	115	0.110	94.0	
1065 507	Saturday, 16/11/2013	12:32:23	06/11/2013	14/11/2013	5	115	0.120	91.5	
1065 76	Saturday, 16/11/2013	12:33:48	06/11/2013	14/11/2013	5	115	0.110	91.5	
1065 81	Saturday, 16/11/2013	12:34:48	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 488	Sunday, 17/11/2013	12:44:58	06/11/2013	14/11/2013	1	95	0.100	94.0	
1065 806	Monday, 18/11/2013	12:33:00	06/11/2013	14/11/2013	5	115	0.110	91.5	
1074 489	Monday, 18/11/2013	12:50:55	06/11/2013	14/11/2013	5	115	0.100	94.0	
1065 500	Monday, 18/11/2013	12:50:55	06/11/2013	14/11/2013	5	115	0.100	94.0	
1074 500	Tuesday, 19/11/2013	13:00:24	06/11/2013	14/11/2013	5	115	0.120	91.5	
1074 104	Tuesday, 19/11/2013	13:04:27	06/11/2013	14/11/2013	5	115	0.100	88.0	
1074 105	Wednesday, 20/11/2013	12:38:00	06/11/2013	14/11/2013	5	115	0.110	91.5	
1065 554	Thursday, 21/11/2013	12:32:08	06/11/2013	14/11/2013	5	115	0.110	91.5	
1065 805	Thursday, 21/11/2013	12:33:46	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 506	Friday, 22/11/2013	12:33:54	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 506	Friday, 22/11/2013	12:42:38	06/11/2013	14/11/2013	5	115	0.090	91.5	
1065 508	Saturday, 23/11/2013	12:38:00	06/11/2013	14/11/2013	5	115	0.110	91.5	
1065 92	Saturday, 23/11/2013	12:40:40	06/11/2013	14/11/2013	5	115	0.110	94.0	
1065 94	Sunday, 24/11/2013	12:27:55	06/11/2013	14/11/2013	1	95	0.110	91.5	
1074 512	Monday, 24/11/2013	12:29:18	06/11/2013	14/11/2013	5	115	0.110	91.5	
1065 905	Monday, 24/11/2013	12:33:26	06/11/2013	14/11/2013	5	115	0.100	94.0	
1074 510	Monday, 24/11/2013	12:35:04	06/11/2013	14/11/2013	5	115	0.100	91.5	
1065 551	Monday, 25/11/2013	12:38:47	06/11/2013	14/11/2013	5	115	0.100	91.5	
1065 509	Tuesday, 26/11/2013	12:33:30	06/11/2013	14/11/2013	5	115	0.100	88.0	
1065 510	Tuesday, 26/11/2013	12:35:46	06/11/2013	14/11/2013	5	115	0.100	100.0	
1065 73	Wednesday, 27/11/2013	12:32:54	06/11/2013	14/11/2013	5	115	0.120	91.5	
1065 510	Wednesday, 27/11/2013	12:35:53	06/11/2013	14/11/2013	5	115	0.120	91.5	
1074 509	Thursday, 28/11/2013	12:28:51	06/11/2013	14/11/2013	5	115	0.100	103.0	
1065 504	Thursday, 28/11/2013	12:29:51	06/11/2013	14/11/2013	5	115	0.110	103.0	
1065 503	Friday, 29/11/2013	12:45:12	06/11/2013	14/11/2013	5	115	0.100	91.5	
1074 510	Friday, 29/11/2013	12:47:37	06/11/2013	14/11/2013	5	115	0.100	94.0	
1065 75	Friday, 29/11/2013	12:47:37	06/11/2013	14/11/2013	5	115	0.100	94.0	
DECEMBER									
1074 511	Sunday, 1/12/2013	12:38:11	09/01/2014	14/01/2014	1	95	0.100	91.5	
1074 512	Monday, 2/12/2013	12:39:52	09/01/2014	14/01/2014	5	115	0.110	91.5	
1074 513	Monday, 2/12/2013	12:49:21	09/01/2014	14/01/2014	5	115	0.120	91.5	
1074 514	Monday, 2/12/2013	12:50:18	09/01/2014	14/01/2014	5	115	0.110	91.5	
1074 515	Monday, 2/12/2013	12:50:18	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 412	Wednesday, 4/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 413	Wednesday, 4/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1074 516	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 414	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 415	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 416	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 417	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 418	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 419	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 420	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 421	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 422	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 423	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 424	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 425	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 426	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 427	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 428	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 429	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 430	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 431	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 432	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 433	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 434	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 435	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 436	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 437	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 438	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 439	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 440	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 441	Thursday, 5/12/2013	12:46:45	09/01/2014	14/01/2014	5	115	0.110	103.0	
1065 442	Thursday, 5/12/201								

066_42	Friday, 23/03/2013	12.13500	05/04/2013	14/04/2013	5	115	0.080	91.5
1110_120	Friday, 23/03/2013	12.13500	05/04/2013	14/04/2013	5	115	0.080	101.0
1110_110	Saturday, 30/03/2013	12.13500	05/04/2013	14/04/2013	5	115	0.080	88.0
1110_111	Sunday, 31/03/2013	12.13500	05/04/2013	14/04/2013	5	115	0.080	91.5
066_43	Sunday, 31/03/2013	12.27300	05/04/2013	14/04/2013	5	115	0.080	91.5
AME								
1110_124	Monday, 1/04/2013	12.30200	08/05/2013	14/05/2013	5	115	0.081	88.0
066_27_28	Tuesday, 2/04/2013	11.04355	08/05/2013	14/05/2013	5	115	0.086	97.5
066_27_50	Tuesday, 2/04/2013	11.04355	08/05/2013	14/05/2013	5	115	0.086	97.5
066_51_26	Wednesday, 3/04/2013	12.30300	08/05/2013	14/05/2013	5	115	0.087	96.9
066_51_27	Wednesday, 3/04/2013	12.31455	08/05/2013	14/05/2013	5	115	0.086	100.0
066_51	Thursday, 4/04/2013	11.97006	08/05/2013	14/05/2013	5	115	0.095	97.5
066_28	Thursday, 4/04/2013	11.97006	08/05/2013	14/05/2013	5	115	0.095	97.5
1110_123	Friday, 5/04/2013	12.44000	08/05/2013	14/05/2013	5	115	0.081	94.0
066_29_32	Saturday, 7/04/2013	12.38625	08/05/2013	14/05/2013	5	115	0.084	94.0
1110_124	Sunday, 7/04/2013	12.38800	08/05/2013	14/05/2013	5	115	0.084	88.0
1110_125	Monday, 8/04/2013	12.33000	08/05/2013	14/05/2013	5	115	0.093	88.0
066_34	Monday, 8/04/2013	12.33000	08/05/2013	14/05/2013	5	115	0.090	88.0
1110_126	Tuesday, 9/04/2013	12.27000	08/05/2013	14/05/2013	5	115	0.098	88.0
066_35	Tuesday, 9/04/2013	12.27000	08/05/2013	14/05/2013	5	115	0.087	88.0
1110_127	Wednesday, 10/04/2013	12.31000	08/05/2013	14/05/2013	5	115	0.102	88.0
066_36	Thursday, 11/04/2013	12.31000	08/05/2013	14/05/2013	5	115	0.094	95.0
066_37	Friday, 12/04/2013	12.40333	08/05/2013	14/05/2013	5	115	0.091	98.0
1110_128	Saturday, 13/04/2013	12.44000	08/05/2013	14/05/2013	5	115	0.080	98.0
066_38	Saturday, 13/04/2013	12.46000	08/05/2013	14/05/2013	5	115	0.091	94.0
066_39	Sunday, 14/04/2013	12.30000	08/05/2013	14/05/2013	5	115	0.095	91.5
1110_129	Sunday, 14/04/2013	12.32000	08/05/2013	14/05/2013	5	115	0.093	91.5
1110_130	Monday, 15/04/2013	12.23338	08/05/2013	14/05/2013	5	115	0.087	94.0
1110_130B	Tuesday, 16/04/2013	12.33449	08/05/2013	14/05/2013	5	115	0.112	88.0
1110_131	Tuesday, 16/04/2013	12.33449	08/05/2013	14/05/2013	5	115	0.112	88.0
066_39_36	Wednesday, 17/04/2013	11.51100	08/05/2013	14/05/2013	5	115	0.088	88.0
066_40	Thursday, 18/04/2013	12.28208	08/05/2013	14/05/2013	5	115	0.087	91.5
066_41	Friday, 19/04/2013	12.39200	08/05/2013	14/05/2013	5	115	0.075	98.8
1110_130B	Saturday, 20/04/2013	12.38625	08/05/2013	14/05/2013	5	115	0.084	98.0
1110_122	Saturday, 20/04/2013	12.46000	08/05/2013	14/05/2013	5	115	0.078	98.8
1110_94	Sunday, 21/04/2013	12.41000	08/05/2013	14/05/2013	5	115	0.075	91.5
066_42	Sunday, 21/04/2013	12.31445	08/05/2013	14/05/2013	5	115	0.139	97.5
1110_130	Monday, 22/04/2013	12.31445	08/05/2013	14/05/2013	5	115	0.139	97.5
066_43	Tuesday, 23/04/2013	12.38000	08/05/2013	14/05/2013	5	115	0.081	91.5
066_44	Wednesday, 24/04/2013	12.33000	08/05/2013	14/05/2013	5	115	0.081	91.5
1110_131	Thursday, 25/04/2013	12.37000	08/05/2013	14/05/2013	5	115	0.075	91.5
066_45	Thursday, 25/04/2013	12.37000	08/05/2013	14/05/2013	5	115	0.075	91.5
066_46	Friday, 26/04/2013	12.50549	08/05/2013	14/05/2013	5	115	0.095	101.0
066_47	Friday, 26/04/2013	12.50549	08/05/2013	14/05/2013	5	115	0.095	101.0
066_48	Saturday, 27/04/2013	12.28300	08/05/2013	14/05/2013	5	115	0.083	91.5
1110_132	Saturday, 27/04/2013	12.54000	08/05/2013	14/05/2013	5	115	0.088	91.5
066_49	Sunday, 28/04/2013	12.35000	08/05/2013	14/05/2013	5	115	0.084	98.0
066_50	Monday, 29/04/2013	12.07333	08/05/2013	14/05/2013	5	115	0.094	88.0
1110_133	Monday, 29/04/2013	12.32000	08/05/2013	14/05/2013	5	115	0.081	91.5
066_51	Tuesday, 30/04/2013	12.27449	08/05/2013	14/05/2013	5	115	0.112	88.0
1110_97	Tuesday, 30/04/2013	12.30000	08/05/2013	14/05/2013	5	115	0.086	88.0
AME								
066_52	Thursday, 2/05/2013	12.36333	07/06/2013	14/06/2013	5	115	0.094	97.5
1110_134	Thursday, 2/05/2013	12.37000	07/06/2013	14/06/2013	5	115	0.075	100.0
066_53	Friday, 3/05/2013	12.40485	07/06/2013	14/06/2013	5	115	0.075	91.5
066_54	Friday, 3/05/2013	12.41440	07/06/2013	14/06/2013	5	115	0.078	91.5
1110_135	Saturday, 4/05/2013	12.28000	07/06/2013	14/06/2013	5	115	0.081	101.0
066_55	Saturday, 4/05/2013	12.35333	07/06/2013	14/06/2013	5	115	0.081	91.5
066_56	Sunday, 5/05/2013	12.34445	07/06/2013	14/06/2013	5	115	0.075	88.0
1110_130	Sunday, 5/05/2013	12.44000	07/06/2013	14/06/2013	5	115	0.083	88.0
1110_131	Monday, 6/05/2013	12.46000	07/06/2013	14/06/2013	5	115	0.075	91.5
1110_95	Monday, 6/05/2013	12.49200	07/06/2013	14/06/2013	5	115	0.086	91.5
066_57	Tuesday, 13/05/2013	12.30555	07/06/2013	14/06/2013	5	115	0.079	91.5
066_58	Tuesday, 13/05/2013	12.30555	07/06/2013	14/06/2013	5	115	0.079	91.5
066_59	Wednesday, 14/05/2013	12.36333	07/06/2013	14/06/2013	5	115	0.083	88.0
1110_96	Wednesday, 14/05/2013	12.28208	07/06/2013	14/06/2013	5	115	0.078	91.5
066_60	Thursday, 15/05/2013	12.36000	07/06/2013	14/06/2013	5	115	0.086	91.5
066_61	Thursday, 15/05/2013	12.36000	07/06/2013	14/06/2013	5	115	0.086	91.5
066_62	Friday, 16/05/2013	12.49200	07/06/2013	14/06/2013	5	115	0.094	101.0
1110_136	Friday, 16/05/2013	12.30555	07/06/2013	14/06/2013	5	115	0.088	88.0
1110_130	Saturday, 18/05/2013	12.28386	07/06/2013	14/06/2013	5	115	0.079	97.5
066_63	Saturday, 18/05/2013	12.32008	07/06/2013	14/06/2013	5	115	0.083	100.0
1110_111	Sunday, 19/05/2013	12.34442	07/06/2013	14/06/2013	5	115	0.081	91.5
1110_115	Monday, 20/05/2013	12.35500	07/06/2013	14/06/2013	5	115	0.073	91.5
066_64	Monday, 20/05/2013	12.52006	07/06/2013	14/06/2013	5	115	0.079	91.0
1110_110	Tuesday, 21/05/2013	12.07419	07/06/2013	14/06/2013	5	115	0.081	95.0
1110_112	Tuesday, 21/05/2013	12.07419	07/06/2013	14/06/2013	5	115	0.083	95.0
066_65	Wednesday, 22/05/2013	12.46000	07/06/2013	14/06/2013	5	115	0.080	88.0
066_66	Wednesday, 22/05/2013	12.46000	07/06/2013	14/06/2013	5	115	0.094	101.0
066_67	Thursday, 23/05/2013	12.28154	07/06/2013	14/06/2013	5	115	0.084	88.0
066_68	Thursday, 23/05/2013	12.28154	07/06/2013	14/06/2013	5	115	0.084	88.0
066_69	Friday, 24/05/2013	12.23333	07/06/2013	14/06/2013	5	115	0.081	88.0
066_70	Friday, 24/05/2013	12.40400	07/06/2013	14/06/2013	5	115	0.087	101.0
066_71	Friday, 24/05/2013	12.40400	07/06/2013	14/06/2013	5	115	0.087	101.0
1110_109	Saturday, 25/05/2013	12.50332	07/06/2013	14/06/2013	5	115	0.075	101.0
066_80_800	Saturday, 25/05/2013	12.28000	07/06/2013	14/06/2013	5	115	0.075	101.0
1110_103	Sunday, 26/05/2013	12.43449	07/06/2013	14/06/2013	5	115	0.098	100.0
1110_98	Sunday, 26/05/2013	12.95152	07/06/2013	14/06/2013	5	115	0.073	100.0
AME								
1110_108	Saturday, 1/06/2013	12.27218	09/07/2013	14/07/2013	5	115	0.080	101.0
1110_104	Sunday, 2/06/2013	12.48117	09/07/2013	14/07/2013	5	115	0.130	91.5
1110_114	Monday, 3/06/2013	12.41300	09/07/2013	14/07/2013	5	115	0.070	91.5
1110_115	Tuesday, 4/06/2013	12.41334	09/07/2013	14/07/2013	5	115	0.070	91.5
066_72	Tuesday, 4/06/2013	12.48117	09/07/2013	14/07/2013	5	115	0.070	91.5
066_73	Wednesday, 5/06/2013	12.48117	09/07/2013	14/07/2013	5	115	0.130	94.0
066_74	Wednesday, 5/06/2013	12.48117	09/07/2013	14/07/2013	5	115	0.130	94.0
066_75	Thursday, 6/06/2013	12.43410	09/07/2013	14/07/2013	5	115	0.080	91.5
066_76	Thursday, 6/06/2013	12.43410	09/07/2013	14/07/2013	5	115	0.070	88.0
066_77	Friday, 7/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_78	Friday, 7/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_79	Saturday, 8/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_80	Saturday, 8/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_81	Sunday, 9/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_82	Sunday, 9/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_83	Monday, 10/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_84	Monday, 10/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_85	Tuesday, 11/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_86	Tuesday, 11/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_87	Wednesday, 12/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_88	Wednesday, 12/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_89	Thursday, 13/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_90	Thursday, 13/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_91	Friday, 14/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0
066_92	Friday, 14/06/2013	12.34224	09/07/2013	14/07/2013	5	115	0.070	88.0

Blast Number	Day/Date	Time	Date Obtained	Date Published	Ground Vibration (mm/s)	Airblast Overpressure (mmHg)	Ground Vibration (mm/s)	Airblast Overpressure (mmHg)	Comments
JANUARY									
084 50	Tuesday, 1/01/2013	12:44:40	07/02/2013	14/02/2013	5	115	0.083	88.0	
1101 104	Wednesday, 2/01/2013	12:22:00	07/02/2013	14/02/2013	5	115	0.088	88.0	
075 520	Wednesday, 2/01/2013	13:05:30	07/02/2013	14/02/2013	5	115	0.095	88.0	
075 521	Thursday, 3/01/2013	12:43:30	07/02/2013	14/02/2013	5	115	0.114	88.0	
084 24	Thursday, 3/01/2013	12:43:30	07/02/2013	14/02/2013	5	115	0.108	81.9	
075 522	Friday, 4/01/2013	12:40:03	07/02/2013	14/02/2013	5	115	0.209	88.0	
1101 530	Friday, 4/01/2013	12:38:00	07/02/2013	14/02/2013	5	115	0.088	88.0	
110 112	Saturday, 5/01/2013	12:40:10	07/02/2013	14/02/2013	5	115	0.094	88.0	
1101 530	Saturday, 5/01/2013	12:40:10	07/02/2013	14/02/2013	5	115	0.094	88.0	
1101 888	Monday, 7/01/2013	12:44:20	07/02/2013	14/02/2013	5	115	0.097	84.0	
084 27	Monday, 7/01/2013	12:44:20	07/02/2013	14/02/2013	5	115	0.097	84.0	
1101 529	Monday, 7/01/2013	12:48:13	07/02/2013	14/02/2013	5	115	0.098	88.0	
084 43	Tuesday, 8/01/2013	12:51:00	07/02/2013	14/02/2013	5	115	0.091	101.9	
084 46	Tuesday, 8/01/2013	12:51:00	07/02/2013	14/02/2013	5	115	0.091	101.9	
084 28	Wednesday, 9/01/2013	12:22:00	07/02/2013	14/02/2013	5	115	0.104	102.8	
084 44	Thursday, 10/01/2013	12:24:59	07/02/2013	14/02/2013	5	115	0.093	84.0	
084 29	Friday, 11/01/2013	12:28:00	07/02/2013	14/02/2013	5	115	0.114	88.0	
084 45	Saturday, 12/01/2013	12:46:27	07/02/2013	14/02/2013	5	115	0.097	88.0	
084 49	Saturday, 13/01/2013	12:30:00	07/02/2013	14/02/2013	5	95	0.091	88.0	Airblast overpressure exceeded was caused by localized environmental factors
084 38	Monday, 14/01/2013	12:37:00	07/02/2013	14/02/2013	5	115	0.093	97.5	
1155 57	Monday, 14/01/2013	12:57:00	07/02/2013	14/02/2013	5	115	0.097	101.0	
084 49	Tuesday, 15/01/2013	12:30:00	07/02/2013	14/02/2013	5	115	0.093	88.0	
110 114	Tuesday, 15/01/2013	12:30:00	07/02/2013	14/02/2013	5	115	0.093	88.0	
075 23	Thursday, 17/01/2013	12:02:14	07/02/2013	14/02/2013	5	115	0.098	91.5	still calling time at time of blast
084 34	Saturday, 19/01/2013	12:56:00	07/02/2013	14/02/2013	5	115	0.098	91.5	
110 117	Saturday, 19/01/2013	12:54:00	07/02/2013	14/02/2013	5	115	0.091	88.0	
075 24	Sunday, 20/01/2013	12:38:35	07/02/2013	14/02/2013	5	95	0.097	88.0	
084 35	Monday, 21/01/2013	12:55:20	07/02/2013	14/02/2013	5	115	0.091	81.9	
110 116	Monday, 21/01/2013	12:50:00	07/02/2013	14/02/2013	5	115	0.094	91.5	
075 20	Tuesday, 22/01/2013	12:58:02	07/02/2013	14/02/2013	5	115	0.095	91.5	
075 26	Tuesday, 22/01/2013	12:58:02	07/02/2013	14/02/2013	5	115	0.095	91.5	
084 40	Thursday, 24/01/2013	12:29:16	07/02/2013	14/02/2013	5	115	0.098	88.0	
075 25	Thursday, 24/01/2013	12:29:16	07/02/2013	14/02/2013	5	115	0.098	88.0	
084 39	Friday, 25/01/2013	12:34:00	07/02/2013	14/02/2013	5	115	0.087	88.0	
075 26	Saturday, 26/01/2013	12:42:00	07/02/2013	14/02/2013	5	115	0.088	88.0	
084 38	Saturday, 26/01/2013	12:44:00	07/02/2013	14/02/2013	5	115	0.094	88.0	
084 39	Saturday, 27/01/2013	12:29:00	07/02/2013	14/02/2013	5	95	0.091	91.5	
075 22	Monday, 28/01/2013	12:30:58	07/02/2013	14/02/2013	5	115	0.093	95.9	
084 37	Monday, 28/01/2013	12:36:00	07/02/2013	14/02/2013	5	115	0.091	88.0	
075 27	Wednesday, 30/01/2013	12:36:28	07/02/2013	14/02/2013	5	115	0.108	88.0	
110 118	Thursday, 31/01/2013	12:44:00	07/02/2013	14/02/2013	5	115	0.091	91.5	
FEBRUARY									
075 28	Saturday, 2/02/2013	12:31:00	08/03/2013	14/03/2013	5	115	0.100	84.0	
075 46	Sunday, 3/02/2013	12:29:00	08/03/2013	14/03/2013	5	115	0.100	91.5	
075 45	Thursday, 7/02/2013	12:45:00	08/03/2013	14/03/2013	5	115	0.090	88.0	
1002 65	Friday, 8/02/2013	12:36:00	08/03/2013	14/03/2013	5	115	0.090	98.8	
075 44	Saturday, 9/02/2013	12:44:44	08/03/2013	14/03/2013	5	115	0.100	88.0	
075 35	Sunday, 10/02/2013	12:31:00	08/03/2013	14/03/2013	5	115	0.090	88.0	
075 43	Wednesday, 13/02/2013	12:34:00	08/03/2013	14/03/2013	5	115	0.100	91.5	
075 36	Thursday, 14/02/2013	12:47:00	08/03/2013	14/03/2013	5	115	0.090	91.5	
075 42	Saturday, 16/02/2013	12:44:00	08/03/2013	14/03/2013	5	115	0.090	88.0	
075 39	Saturday, 16/02/2013	12:48:00	08/03/2013	14/03/2013	5	115	0.090	88.0	
075 47	Monday, 18/02/2013	12:35:57	08/03/2013	14/03/2013	5	115	0.090	88.0	
075 20	Monday, 18/02/2013	12:41:04	08/03/2013	14/03/2013	5	115	0.100	88.0	
075 30	Wednesday, 20/02/2013	12:38:00	08/03/2013	14/03/2013	5	115	0.110	81.9	
075 33	Thursday, 21/02/2013	12:34:30	08/03/2013	14/03/2013	5	115	0.090	84.0	
075 34	Thursday, 21/02/2013	12:42:00	08/03/2013	14/03/2013	5	115	0.090	88.0	
075 31	Saturday, 23/02/2013	12:46:00	08/03/2013	14/03/2013	5	115	0.090	110.2	
075 23	Monday, 25/02/2013	12:46:15	08/03/2013	14/03/2013	5	115	0.090	88.0	
084 48	Wednesday, 27/02/2013	12:35:15	08/03/2013	14/03/2013	5	115	0.090	81.9	
MARCH									
084 24	Sunday, 3/03/2013	12:37:00	05/04/2013	14/04/2013	1	95	0.110	101.9	Airblast overpressure exceeded was caused by localized environmental factors
1101 88	Monday, 4/03/2013	12:40:00	05/04/2013	14/04/2013	5	115	0.090	91.5	
084 30	Tuesday, 5/03/2013	12:41:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
075 41	Tuesday, 5/03/2013	12:46:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 24	Thursday, 7/03/2013	12:46:00	05/04/2013	14/04/2013	5	115	0.110	88.0	
084 25	Thursday, 7/03/2013	12:46:00	05/04/2013	14/04/2013	5	115	0.110	88.0	
075 514	Friday, 8/03/2013	12:32:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
1101 893	Saturday, 9/03/2013	12:34:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 316	Monday, 11/03/2013	12:28:40	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 36	Tuesday, 12/03/2013	12:26:21	05/04/2013	14/04/2013	5	115	0.090	88.0	
1101 888	Wednesday, 13/03/2013	12:34:45	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 20	Thursday, 14/03/2013	12:35:44	05/04/2013	14/04/2013	5	115	0.130	97.5	
075 515	Thursday, 14/03/2013	12:35:44	05/04/2013	14/04/2013	5	115	0.130	91.5	
1101 90	Friday, 15/03/2013	12:32:19	05/04/2013	14/04/2013	5	115	0.110	88.0	
084 21	Saturday, 16/03/2013	12:26:05	05/04/2013	14/04/2013	5	115	0.120	108.0	
084 37	Saturday, 16/03/2013	12:28:00	05/04/2013	14/04/2013	5	95	0.090	88.0	
075 17	Monday, 18/03/2013	12:38:00	05/04/2013	14/04/2013	5	115	0.090	88.0	Airblast overpressure exceeded was caused by localized environmental factors
084 33	Monday, 18/03/2013	12:49:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 507	Tuesday, 19/03/2013	12:44:51	05/04/2013	14/04/2013	5	115	0.110	84.0	
1101 96	Wednesday, 20/03/2013	12:42:50	05/04/2013	14/04/2013	5	115	0.100	88.0	
075 524 518	Thursday, 21/03/2013	12:42:50	05/04/2013	14/04/2013	5	115	0.110	88.0	
084 23	Thursday, 21/03/2013	12:58:00	05/04/2013	14/04/2013	5	115	0.090	91.5	
110 119	Friday, 22/03/2013	12:37:37	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 47	Saturday, 23/03/2013	12:57:32	05/04/2013	14/04/2013	5	115	0.100	88.0	
084 22	Sunday, 24/03/2013	12:58:00	05/04/2013	14/04/2013	5	115	0.090	91.5	
110 120	Sunday, 24/03/2013	12:57:28	05/04/2013	14/04/2013	5	95	0.090	88.0	
084 46	Sunday, 24/03/2013	12:30:00	05/04/2013	14/04/2013	5	95	0.090	88.0	
075 38 39	Tuesday, 26/03/2013	12:57:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
110 121	Tuesday, 26/03/2013	12:27:39	05/04/2013	14/04/2013	5	115	0.090	88.0	
110 113	Wednesday, 27/03/2013	12:29:00	05/04/2013	14/04/2013	5	115	0.100	88.0	
084 44	Wednesday, 27/03/2013	12:37:45	05/04/2013	14/04/2013	5	115	0.100	101.9	
084 45	Wednesday, 27/03/2013	12:37:45	05/04/2013	14/04/2013	5	115	0.100	101.9	
084 43	Thursday, 28/03/2013	12:29:34	05/04/2013	14/04/2013	5	115	0.090	88.0	
084 41	Thursday, 28/03/2013	12:31:00	05/04/2013	14/04/2013	5	115	0.080	88.0	
084 42	Friday, 29/03/2013	12:35:00	05/04/2013	14/04/2013	5	95	0.090	84.0	
110 122	Friday, 29/03/2013	12:35:12	05/04/2013	14/04/2013	5	115	0.090	88.0	
110 118B	Saturday, 30/03/2013	12:33:00	05/04/2013	14/04/2013	5	95	0.090	91.5	
11									

088 10	Tuesday, 11/06/2013	16:05:38	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 11	Tuesday, 11/06/2013	16:05:48	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 100	Thursday, 11/06/2013	12:34:10	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 111	Thursday, 11/06/2013	12:35:24	09/07/2013	14/07/2013	5	115	0.180	81.9	
088 18	Friday, 14/06/2013	12:35:24	09/07/2013	14/07/2013	5	115	0.110	81.9	
088 154	Friday, 14/06/2013	12:35:55	09/07/2013	14/07/2013	5	115	0.110	81.9	
088 110	Saturday, 15/06/2013	12:35:55	09/07/2013	14/07/2013	5	115	0.110	81.9	
088 100	Sunday, 16/06/2013	12:35:55	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 10	Sunday, 16/06/2013	12:37:21	09/07/2013	14/07/2013	1	95	0.100	81.9	
088 11	Monday, 17/06/2013	12:38:00	09/07/2013	14/07/2013	5	115	0.140	81.9	
088 112	Monday, 18/06/2013	12:34:21	09/07/2013	14/07/2013	5	115	0.100	81.9	
088 100	Tuesday, 18/06/2013	12:34:10	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 101	Wednesday, 19/06/2013	12:35:28	09/07/2013	14/07/2013	5	115	0.140	100.0	
088 113	Wednesday, 19/06/2013	12:35:28	09/07/2013	14/07/2013	5	115	0.140	100.0	
088 10	Thursday, 20/06/2013	12:42:15	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 20	Thursday, 20/06/2013	12:42:37	09/07/2013	14/07/2013	5	115	0.080	81.9	
088 100	Friday, 21/06/2013	12:42:37	09/07/2013	14/07/2013	5	115	0.070	81.9	
088 21	Sunday, 23/06/2013	12:57:27	09/07/2013	14/07/2013	1	95	0.070	81.9	
088 106	Sunday, 23/06/2013	12:57:27	09/07/2013	14/07/2013	1	95	0.080	81.9	
088 134	Monday, 24/06/2013	12:57:47	09/07/2013	14/07/2013	5	115	0.130	81.9	
088 9	Monday, 24/06/2013	15:17:24	09/07/2013	14/07/2013	5	115	0.080	81.9	
088 20	Tuesday, 25/06/2013	12:40:09	09/07/2013	14/07/2013	5	115	0.000	100.0	
088 11	Wednesday, 26/06/2013	12:32:27	09/07/2013	14/07/2013	5	115	0.080	81.9	
088 10	Thursday, 27/06/2013	12:28:00	09/07/2013	14/07/2013	5	115	0.070	81.9	
088 12	Friday, 28/06/2013	12:34:56	09/07/2013	14/07/2013	5	115	0.110	81.9	
088 134 535	Friday, 28/06/2013	13:07:35	09/07/2013	14/07/2013	5	115	0.130	81.9	
088 20	Saturday, 29/06/2013	12:32:50	09/07/2013	14/07/2013	5	115	0.000	81.9	
088 47	Sunday, 29/06/2013	12:40:25	09/07/2013	14/07/2013	5	115	0.100	81.9	
088 15	Sunday, 30/06/2013	12:34:05	09/07/2013	14/07/2013	1	95	0.000	81.9	
088 30	Sunday, 30/06/2013	12:38:49	09/07/2013	14/07/2013	1	95	0.000	81.9	
JULY									
088 100	Monday, 1/07/2013	12:58:55	09/08/2013	14/08/2013	5	115	0.080	81.9	
088 28	Tuesday, 2/07/2013	12:30:00	09/08/2013	14/08/2013	5	115	0.110	81.9	
088 24	Tuesday, 2/07/2013	12:31:00	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 111	Wednesday, 3/07/2013	12:40:53	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 127	Wednesday, 3/07/2013	12:42:01	09/08/2013	14/08/2013	5	115	0.080	81.9	
088 113	Thursday, 4/07/2013	12:30:00	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 140	Thursday, 4/07/2013	12:31:11	09/08/2013	14/08/2013	5	115	0.070	81.9	
088 141 139	Friday, 5/07/2013	12:24:40	09/08/2013	14/08/2013	5	115	0.120	81.9	
088 100 2	Saturday, 6/07/2013	12:39:41	09/08/2013	14/08/2013	5	115	0.070	81.9	
088 126	Sunday, 7/07/2013	12:33:08	09/08/2013	14/08/2013	1	95	0.000	81.9	
088 137	Sunday, 7/07/2013	12:36:55	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 20	Monday, 8/07/2013	12:38:43	09/08/2013	14/08/2013	5	115	0.110	81.9	
088 20	Monday, 8/07/2013	12:50:45	09/08/2013	14/08/2013	5	115	0.070	81.9	
088 135	Wednesday, 10/07/2013	12:52:10	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 138 542	Wednesday, 10/07/2013	15:03:55	09/08/2013	14/08/2013	5	115	0.110	81.9	
088 10	Thursday, 11/07/2013	12:35:37	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 20	Saturday, 13/07/2013	12:24:34	09/08/2013	14/08/2013	5	115	0.100	81.9	
088 106	Sunday, 13/07/2013	12:49:42	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 35	Monday, 15/07/2013	12:33:44	09/08/2013	14/08/2013	5	115	0.110	81.9	
088 543	Tuesday, 16/07/2013	12:50:02	09/08/2013	14/08/2013	5	115	0.080	81.9	
088 30	Tuesday, 16/07/2013	12:50:40	09/08/2013	14/08/2013	5	115	0.130	81.9	
088 20	Wednesday, 17/07/2013	12:34:20	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 15	Friday, 19/07/2013	12:31:00	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 10	Friday, 19/07/2013	12:29:00	09/08/2013	14/08/2013	5	115	0.120	81.9	
088 17	Saturday, 20/07/2013	12:37:00	09/08/2013	14/08/2013	5	115	0.080	101.5	
088 136	Saturday, 20/07/2013	12:45:37	09/08/2013	14/08/2013	5	115	0.080	81.9	
088 27	Sunday, 21/07/2013	12:58:17	09/08/2013	14/08/2013	1	95	0.110	81.9	
088 100	Monday, 22/07/2013	12:24:52	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 118	Monday, 22/07/2013	12:29:52	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 18	Tuesday, 23/07/2013	12:49:20	09/08/2013	14/08/2013	5	115	0.070	81.9	
088 544	Tuesday, 23/07/2013	12:50:48	09/08/2013	14/08/2013	5	115	0.130	81.9	
088 130	Wednesday, 24/07/2013	12:31:28	09/08/2013	14/08/2013	5	115	0.080	81.9	
088 538	Wednesday, 24/07/2013	12:32:08	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 10	Thursday, 25/07/2013	12:35:28	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 108	Thursday, 25/07/2013	12:32:28	09/08/2013	14/08/2013	5	115	0.100	81.9	
088 22	Friday, 26/07/2013	12:29:13	09/08/2013	14/08/2013	5	115	0.070	81.9	
088 545 546	Friday, 26/07/2013	12:48:32	09/08/2013	14/08/2013	5	115	0.120	100.0	
088 92	Saturday, 27/07/2013	12:38:12	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 10	Sunday, 28/07/2013	12:38:22	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 24	Sunday, 28/07/2013	12:38:22	09/08/2013	14/08/2013	1	95	0.140	81.9	
088 110	Monday, 29/07/2013	12:35:23	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 33	Tuesday, 30/07/2013	12:33:34	09/08/2013	14/08/2013	5	115	0.080	81.9	
088 538	Tuesday, 30/07/2013	12:33:34	09/08/2013	14/08/2013	5	115	0.000	81.9	
088 10	Wednesday, 31/07/2013	12:32:09	09/08/2013	14/08/2013	5	115	0.000	81.9	
AUGUST									
088 147	Thursday, 1/8/13	12:36:17	09/09/2013	14/09/2013	5	115	0.120	81.9	
088 14	Thursday, 1/8/13	12:40:00	09/09/2013	14/09/2013	5	115	0.070	81.9	
088 148	Friday, 2/8/13	12:33:55	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 10	Friday, 2/8/13	12:35:00	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 112	Saturday, 3/8/13	12:45:08	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 36	Saturday, 3/8/13	12:45:08	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 21	Sunday, 4/8/13	12:38:36	09/09/2013	14/09/2013	1	95	0.000	81.9	
088 121	Sunday, 4/8/13	12:38:05	09/09/2013	14/09/2013	5	115	0.080	81.9	
088 10	Monday, 5/8/13	12:39:18	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 21	Tuesday, 6/8/13	12:32:06	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 14	Tuesday, 6/8/13	12:33:29	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 118	Wednesday, 7/8/13	12:30:40	09/09/2013	14/09/2013	5	115	0.080	81.9	
088 10	Thursday, 8/8/13	12:31:00	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 105	Friday, 9/8/13	12:42:41	09/09/2013	14/09/2013	5	115	0.110	81.9	
088 105	Saturday, 10/8/13	12:36:02	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 117	Saturday, 10/8/13	12:35:16	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 08	Sunday, 11/8/13	12:29:00	09/09/2013	14/09/2013	1	95	0.000	81.9	
088 987	Monday, 12/8/13	12:34:27	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 10	Monday, 12/8/13	12:36:00	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 86	Tuesday, 13/8/13	12:38:33	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 59	Wednesday, 14/8/13	12:30:00	09/09/2013	14/09/2013	5	115	0.130	81.9	
088 116	Thursday, 15/8/13	12:32:00	09/09/2013	14/09/2013	5	115	0.080	81.9	
088 4-5	Friday, 16/8/13	12:34:09	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 10	Friday, 16/8/13	12:34:09	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 506	Saturday, 17/8/13	12:38:01	09/09/2013	14/09/2013	5	115	0.080	81.9	
088 508	Saturday, 17/8/13	12:38:01	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 544	Saturday, 17/8/13	12:39:23	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 112	Sunday, 18/8/13	12:38:00	09/09/2013	14/09/2013	1	95	0.000	81.9	
088 10	Monday, 19/8/13	12:38:00	09/09/2013	14/09/2013	5	115	0.140	81.9	
088 508	Monday, 19/8/13	12:38:54	09/09/2013	14/09/2013	5	115	0.140	81.9	
088 505	Monday, 19/8/13	12:37:36	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 106	Wednesday, 21/8/13	12:51:00	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 114	Thursday, 22/8/13	12:35:00	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 123	Thursday, 22/8/13	12:35:20	09/09/2013	14/09/2013	5	115	0.080	81.9	
088 122	Friday, 23/8/13	12:31:00	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 10	Sunday, 25/8/13	12:43:39	09/09/2013	14/09/2013	1	95	0.000	81.9	
088 109	Sunday, 25/8/13	12:52:05	09/09/2013	14/09/2013	5	115	0.000	81.9	
088 10	Monday, 26/8/13	12:46:40	09/09/2013	14/09/2013	5	115	0.100	81.9	
088 504 504	Monday, 26/8/13	12:46:40	09/09/2013</						

Blast Number	Day/Date	Time	Date Observed	Date Published	Ground Vibration (mm/s)	Airblast Overpressure (dBLL)	Ground Vibration (mm/s)	Airblast Overpressure (dBLL)	Comments
1074 47	Monday, 28/12/2013	15:13:25	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 71	Monday, 29/12/2013	12:32:41	06/12/2013	14/12/2013	5	115	0.100	91.5	
NOVEMBER									
1074 95	Friday, 1/11/2013	11:02:51	06/12/2013	14/12/2013	5	115	0.100	88.0	
1074 108	Friday, 1/11/2013	11:05:49	06/12/2013	14/12/2013	5	115	0.100	88.0	
1074 111	Sunday, 3/11/2013	12:40:00	06/12/2013	14/12/2013	1	95	0.090	92.5	Airblast overpressure exceedance was caused by installed environmental factors
1074 105	Sunday, 3/11/2013	12:44:49	06/12/2013	14/12/2013	1	95	0.090	94.0	Airblast overpressure exceedance was caused by installed environmental factors
1074 117	Monday, 4/11/2013	12:34:41	06/12/2013	14/12/2013	5	115	0.100	94.0	
1074 747	Monday, 4/11/2013	12:49:17	06/12/2013	14/12/2013	5	115	0.100	104.2	
1074 548	Monday, 5/11/2013	12:35:15	06/12/2013	14/12/2013	5	115	0.100	94.0	
1074 74	Tuesday, 5/11/2013	12:35:46	06/12/2013	14/12/2013	5	115	0.100	94.0	
1074 70	Thursday, 7/11/2013	12:36:43	06/12/2013	14/12/2013	5	115	0.100	94.0	
1074 83	Thursday, 7/11/2013	12:26:53	06/12/2013	14/12/2013	5	115	0.120	88.0	
1074 10	Monday, 11/11/2013	12:35:00	06/12/2013	14/12/2013	5	115	0.090	94.0	
1074 75	Monday, 11/11/2013	12:27:11	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 12	Sunday, 10/11/2013	12:27:00	06/12/2013	14/12/2013	1	95	0.090	91.5	
1074 10	Sunday, 10/11/2013	12:28:43	06/12/2013	14/12/2013	1	95	0.110	94.0	
1074 549	Monday, 11/11/2013	12:27:45	06/12/2013	14/12/2013	5	115	0.110	101.9	
1074 103	Tuesday, 12/11/2013	12:28:00	06/12/2013	14/12/2013	5	115	0.090	88.0	
1074 113	Tuesday, 12/11/2013	12:38:41	06/12/2013	14/12/2013	5	115	0.100	88.0	
1074 548	Wednesday, 13/11/2013	12:50:15	06/12/2013	14/12/2013	5	115	0.100	97.5	
1074 104	Wednesday, 13/11/2013	12:58:41	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 14	Thursday, 14/11/2013	12:35:36	06/12/2013	14/12/2013	5	115	0.100	101.0	
1074 549	Monday, 18/11/2013	12:37:54	06/12/2013	14/12/2013	5	115	0.100	88.0	
1074 107	Saturday, 23/11/2013	12:32:23	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 76	Saturday, 23/11/2013	12:33:48	06/12/2013	14/12/2013	5	115	0.110	91.5	
1074 71	Saturday, 23/11/2013	12:34:46	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 15	Sunday, 24/11/2013	12:44:58	06/12/2013	14/12/2013	1	95	0.090	88.0	
1074 106	Monday, 18/11/2013	12:33:00	06/12/2013	14/12/2013	5	115	0.100	95.9	
1074 105	Monday, 18/11/2013	12:50:55	06/12/2013	14/12/2013	5	115	0.100	100.0	
1074 106	Monday, 18/11/2013	12:58:24	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 104	Tuesday, 19/11/2013	12:04:27	06/12/2013	14/12/2013	5	115	0.110	91.5	
1074 105	Wednesday, 20/11/2013	12:39:00	06/12/2013	14/12/2013	5	115	0.120	88.0	
1074 104	Thursday, 21/11/2013	12:32:08	06/12/2013	14/12/2013	5	115	0.090	88.0	
1074 85	Thursday, 21/11/2013	12:33:46	06/12/2013	14/12/2013	5	115	0.090	88.0	
1074 105	Friday, 22/11/2013	12:33:56	06/12/2013	14/12/2013	5	115	0.090	94.0	
1074 106	Friday, 22/11/2013	12:42:18	06/12/2013	14/12/2013	5	115	0.090	98.8	
1074 108	Saturday, 23/11/2013	12:36:00	06/12/2013	14/12/2013	5	115	0.100	94.0	
1074 107	Saturday, 23/11/2013	12:40:10	06/12/2013	14/12/2013	5	115	0.100	88.0	
1074 74	Sunday, 24/11/2013	12:27:55	06/12/2013	14/12/2013	1	95	0.100	88.0	
1074 117	Sunday, 24/11/2013	12:29:18	06/12/2013	14/12/2013	1	95	0.090	95.9	Airblast overpressure exceedance was caused by installed environmental factors
1074 105	Monday, 25/11/2013	12:33:26	06/12/2013	14/12/2013	5	115	0.100	88.0	
1074 110	Monday, 25/11/2013	12:35:04	06/12/2013	14/12/2013	5	115	0.110	88.0	
1074 105	Monday, 25/11/2013	12:36:17	06/12/2013	14/12/2013	5	115	0.110	91.5	
1074 105	Tuesday, 26/11/2013	12:33:30	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 105	Tuesday, 26/11/2013	12:35:46	06/12/2013	14/12/2013	5	115	0.100	91.5	
1074 78	Wednesday, 27/11/2013	12:33:54	06/12/2013	14/12/2013	5	115	0.110	91.5	
1074 105	Wednesday, 27/11/2013	12:35:53	06/12/2013	14/12/2013	5	115	0.110	88.0	
1074 108	Thursday, 28/11/2013	12:29:51	06/12/2013	14/12/2013	5	115	0.110	88.0	
1074 82	Thursday, 28/11/2013	12:29:51	06/12/2013	14/12/2013	5	115	0.110	94.0	
1074 105	Friday, 29/11/2013	12:45:12	06/12/2013	14/12/2013	5	115	0.110	91.5	
1074 105	Friday, 29/11/2013	12:47:37	06/12/2013	14/12/2013	5	115	0.110	94.0	
1074 105	Saturday, 30/11/2013	12:39:25	06/12/2013	14/12/2013	5	115	0.100	91.5	
DECEMBER									
1074 113	Sunday, 1/12/2013	12:58:11	06/12/2013	14/12/2013	1	95	0.100	88.0	
1074 111	Sunday, 1/12/2013	13:00:52	06/12/2013	14/12/2013	1	95	0.100	88.0	Airblast overpressure exceedance was caused by installed environmental factors
1074 2	Monday, 2/12/2013	12:49:21	06/12/2013	14/12/2013	5	115	0.120	94.0	
1074 118	Monday, 2/12/2013	12:52:18	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 118	Monday, 2/12/2013	12:54:49	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 82	Monday, 2/12/2013	12:56:16	06/12/2013	14/12/2013	5	115	0.140	97.5	
1074 117	Monday, 2/12/2013	12:57:25	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 7	Saturday, 7/12/2013	12:28:43	06/12/2013	14/12/2013	5	115	0.090	95.9	
1074 82 south	Monday, 11/12/2013	12:48:26	06/12/2013	14/12/2013	5	115	0.110	94.0	
1074 72	Monday, 11/12/2013	12:50:57	06/12/2013	14/12/2013	5	115	0.120	88.0	
1074 114	Monday, 11/12/2013	12:52:00	06/12/2013	14/12/2013	5	115	0.100	95.9	
1074 6	Tuesday, 12/12/2013	12:52:00	06/12/2013	14/12/2013	5	115	0.120	88.0	
1074 87	Thursday, 12/12/2013	12:33:00	06/12/2013	14/12/2013	5	115	0.110	94.0	
1074 105	Thursday, 12/12/2013	12:36:00	06/12/2013	14/12/2013	5	115	0.110	88.0	
1074 108	Friday, 13/12/2013	12:31:12	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 108	Saturday, 14/12/2013	12:35:55	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 107 208	Sunday, 15/12/2013	12:55:00	06/12/2013	14/12/2013	5	115	0.110	88.0	
1074 116	Sunday, 15/12/2013	12:55:59	06/12/2013	14/12/2013	1	95	0.120	94.0	
1074 74	Monday, 16/12/2013	12:25:10	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 105	Monday, 16/12/2013	12:38:00	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 65	Thursday, 19/12/2013	12:33:21	06/12/2013	14/12/2013	5	115	0.140	91.5	
1074 86	Friday, 20/12/2013	12:40:13	06/12/2013	14/12/2013	5	115	0.130	91.5	
1074 77	Sunday, 22/12/2013	12:43:29	06/12/2013	14/12/2013	1	95	0.130	118.0	Airblast overpressure exceedance was caused by installed environmental factors
1074 108	Sunday, 22/12/2013	12:43:29	06/12/2013	14/12/2013	1	95	0.130	118.0	Airblast overpressure exceedance was caused by installed environmental factors
1074 118	Tuesday, 24/12/2013	12:36:00	06/12/2013	14/12/2013	5	115	0.090	88.0	
1074 28	Tuesday, 24/12/2013	12:36:33	06/12/2013	14/12/2013	5	115	0.090	88.0	
1074 60	Friday, 27/12/2013	12:26:00	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 70a	Friday, 27/12/2013	12:29:00	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 5	Friday, 27/12/2013	12:41:41	06/12/2013	14/12/2013	5	115	0.120	95.9	
1074 10	Saturday, 28/12/2013	12:28:06	06/12/2013	14/12/2013	5	115	0.120	91.5	
1074 7	Sunday, 29/12/2013	12:35:17	06/12/2013	14/12/2013	1	95	0.110	108.5	Airblast overpressure exceedance was caused by installed environmental factors
1074 61	Sunday, 29/12/2013	12:50:17	06/12/2013	14/12/2013	1	95	0.120	95.9	Airblast overpressure exceedance was caused by installed environmental factors
1074 70b	Monday, 30/12/2013	12:40:24	06/12/2013	14/12/2013	5	115	0.120	88.0	
1074 8	Tuesday, 31/12/2013	12:35:15	06/12/2013	14/12/2013	5	115	0.140	91.5	

Monitoring Point: BMS4 - @ 60m Breddan Area - Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded in Lake Cowal to the north-east of ML1535 boundary

Blast Number	Day/Date	Time	Date Observed	Date Published	Compliance Limits		BMS4 at Blast Time		Comments
					Ground Vibration (mm/s)	Airblast Overpressure (dBLL)	Ground Vibration (mm/s)	Airblast Overpressure (dBLL)	
JANUARY									
1084 50	Tuesday, 1/01/2014	12:44:40	07/02/2013	14/02/2013	5	115	0.371	97.5	
1110 108A	Wednesday, 3/01/2014	12:32:10	07/02/2013	14/02/2013	5	115	0.091	81.9	
1074 520	Wednesday, 3/01/2014	13:05:30	07/02/2013	14/02/2013	5	115	0.163	81.9	
1074 521	Thursday, 3/01/2014	12:42:01	07/02/2013	14/02/2013	5	115	0.114	81.9	
1074 522	Friday, 4/01/2014	12:45:30	07/02/2013	14/02/2013	5	115	0.114	81.9	
1074 523	Friday, 4/01/2014	12:48:03	07/02/2013	14/02/2013	5	115	0.258	94.0	
1110 130	Saturday, 5/01/2014	12:38:00	07/02/						

066 27 28	Tuesday, 2/24/2013	13:04:35	08/05/2013	14/05/2013	5	115	0.194	88.0	
067 510	Wednesday, 3/04/2013	12:30:30	08/05/2013	14/05/2013	5	115	0.087	102.8	
068 30	Wednesday, 3/04/2013	13:11:55	08/05/2013	14/05/2013	5	115	0.090	88.0	
069 25	Thursday, 4/04/2013	15:17:06	08/05/2013	14/05/2013	5	115	0.120	88.0	
070 511	Thursday, 4/04/2013	15:17:06	08/05/2013	14/05/2013	5	115	0.120	88.0	
071 26	Friday, 05/04/2013	12:44:00	08/05/2013	14/05/2013	5	115	0.097	81.9	
110 123	Saturday, 06/04/2013	12:36:52	08/05/2013	14/05/2013	5	115	0.103	81.9	
110 124	Sunday, 7/04/2013	12:38:00	08/05/2013	14/05/2013	5	115	0.094	95.5	
110 125	Monday, 8/04/2013	12:33:00	08/05/2013	14/05/2013	5	115	0.087	95.5	
066 28	Monday, 8/04/2013	12:33:00	08/05/2013	14/05/2013	5	115	0.087	95.5	
110 126	Tuesday, 9/04/2013	12:27:00	08/05/2013	14/05/2013	5	115	0.091	81.9	
066 40	Tuesday, 9/04/2013	12:29:30	08/05/2013	14/05/2013	5	115	0.087	81.9	
110 127	Wednesday, 10/04/2013	12:31:00	08/05/2013	14/05/2013	5	115	0.087	81.9	
110 127	Thursday, 11/04/2013	12:31:00	08/05/2013	14/05/2013	5	115	0.086	81.9	
066 30	Friday, 12/04/2013	12:28:00	08/05/2013	14/05/2013	5	115	0.094	81.9	
066 31	Friday, 12/04/2013	12:40:33	08/05/2013	14/05/2013	5	115	0.086	81.9	
110 115	Saturday, 13/04/2013	12:44:00	08/05/2013	14/05/2013	5	115	0.087	81.9	
067 15	Sunday, 14/04/2013	12:36:00	08/05/2013	14/05/2013	5	115	0.083	81.9	
067 16	Sunday, 14/04/2013	12:30:00	08/05/2013	14/05/2013	5	115	0.091	81.9	
110 128	Monday, 15/04/2013	12:32:00	08/05/2013	14/05/2013	5	115	0.094	81.9	
1101 01	Monday, 15/04/2013	12:23:38	08/05/2013	14/05/2013	5	115	0.093	98.8	
1101 108	Tuesday, 16/04/2013	12:33:49	08/05/2013	14/05/2013	5	115	0.132	100.8	
1101 531	Tuesday, 16/04/2013	12:32:49	08/05/2013	14/05/2013	5	115	0.090	81.9	
066 36 36	Wednesday, 17/04/2013	15:11:00	08/05/2013	14/05/2013	5	115	0.090	81.9	
067 17	Thursday, 18/04/2013	12:28:00	08/05/2013	14/05/2013	5	115	0.117	88.0	
066 37	Friday, 19/04/2013	12:39:20	08/05/2013	14/05/2013	5	115	0.103	94.0	
1101 109	Saturday, 20/04/2013	12:36:31	08/05/2013	14/05/2013	5	115	0.102	88.0	
1101 112	Saturday, 20/04/2013	12:46:00	08/05/2013	14/05/2013	5	115	0.097	88.0	
1101 84	Sunday, 21/04/2013	12:41:00	08/05/2013	14/05/2013	5	115	0.087	81.9	
1101 35	Monday, 22/04/2013	12:39:45	08/05/2013	14/05/2013	5	115	0.087	81.9	
1101 120	Monday, 22/04/2013	12:31:45	08/05/2013	14/05/2013	5	115	0.097	98.8	
066 38	Tuesday, 23/04/2013	12:28:00	08/05/2013	14/05/2013	5	115	0.087	95.5	
067 19	Wednesday, 24/04/2013	12:33:00	08/05/2013	14/05/2013	5	115	0.098	81.9	
1101 121	Wednesday, 24/04/2013	12:34:00	08/05/2013	14/05/2013	5	115	0.098	94.0	
067 20	Thursday, 25/04/2013	12:37:33	08/05/2013	14/05/2013	5	115	0.106	81.9	
067 24	Friday, 26/04/2013	15:05:49	08/05/2013	14/05/2013	5	115	0.144	94.0	
067 26	Friday, 26/04/2013	15:05:49	08/05/2013	14/05/2013	5	115	0.144	94.0	
067 25	Saturday, 27/04/2013	12:28:30	08/05/2013	14/05/2013	5	115	0.083	81.9	
1101 132	Saturday, 27/04/2013	12:54:00	08/05/2013	14/05/2013	5	115	0.087	81.9	
067 28	Sunday, 28/04/2013	12:35:00	08/05/2013	14/05/2013	5	115	0.097	81.9	
1101 131	Monday, 29/04/2013	12:07:33	08/05/2013	14/05/2013	5	115	0.088	95.5	
1101 131	Monday, 29/04/2013	12:22:00	08/05/2013	14/05/2013	5	115	0.087	100.0	
067 29	Tuesday, 30/04/2013	12:22:49	08/05/2013	14/05/2013	5	115	0.091	81.9	
1101 87	Tuesday, 30/04/2013	12:40:00	08/05/2013	14/05/2013	5	115	0.087	81.9	
MAY									
067 39	Thursday, 2/05/2013	12:36:31	07/06/2013	14/06/2013	5	115	0.113	81.9	
068 535A	Thursday, 2/05/2013	12:37:00	07/06/2013	14/06/2013	5	115	0.091	88.0	
067 39	Friday, 3/05/2013	12:40:40	07/06/2013	14/06/2013	5	115	0.102	81.9	
067 39	Friday, 3/05/2013	12:41:40	07/06/2013	14/06/2013	5	115	0.098	81.9	
068 535B	Friday, 3/05/2013	12:41:40	07/06/2013	14/06/2013	5	115	0.098	81.9	
1101 129	Saturday, 4/05/2013	12:29:00	07/06/2013	14/06/2013	5	115	0.105	101.9	
067 36	Sunday, 5/05/2013	12:31:31	07/06/2013	14/06/2013	5	115	0.098	81.9	
067 36	Sunday, 5/05/2013	12:34:45	07/06/2013	14/06/2013	5	115	0.098	81.9	
1101 130	Sunday, 5/05/2013	12:44:00	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
068 533	Monday, 6/05/2013	12:48:00	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
1101 95	Monday, 6/05/2013	12:49:20	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
067 37	Tuesday, 6/05/2013	12:30:56	07/06/2013	14/06/2013	5	115	0.102	81.9	
067 37	Tuesday, 6/05/2013	12:31:11	07/06/2013	14/06/2013	5	115	0.117	81.9	
1101 96	Tuesday, 6/05/2013	12:38:26	07/06/2013	14/06/2013	5	115	0.097	81.9	
067 38	Wednesday, 13/05/2013	12:38:26	07/06/2013	14/06/2013	5	115	0.128	81.9	
1101 99	Saturday, 11/05/2013	12:38:86	07/06/2013	14/06/2013	5	115	0.087	88.0	
067 35	Sunday, 12/05/2013	12:33:11	07/06/2013	14/06/2013	5	115	0.102	100.5	
067 35	Monday, 13/05/2013	12:37:46	07/06/2013	14/06/2013	5	115	0.097	81.9	
067 37	Tuesday, 14/05/2013	12:47:11	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
1101 100	Wednesday, 15/05/2013	12:30:56	07/06/2013	14/06/2013	5	115	0.091	81.9	
1101 100	Thursday, 16/05/2013	12:28:00	07/06/2013	14/06/2013	5	115	0.102	98.8	
1101 100	Friday, 17/05/2013	12:30:50	07/06/2013	14/06/2013	5	115	0.100	100.0	
067 36	Saturday, 18/05/2013	12:28:36	07/06/2013	14/06/2013	5	115	0.098	81.9	
067 36	Sunday, 19/05/2013	12:32:08	07/06/2013	14/06/2013	5	115	0.098	95.5	
1101 111	Monday, 20/05/2013	12:34:22	07/06/2013	14/06/2013	5	115	0.097	81.9	
1101 115	Monday, 20/05/2013	12:35:50	07/06/2013	14/06/2013	5	115	0.091	81.9	
067 40	Tuesday, 21/05/2013	12:52:06	07/06/2013	14/06/2013	5	115	0.087	95.5	
067 40	Tuesday, 21/05/2013	13:07:19	07/06/2013	14/06/2013	5	115	0.097	81.9	
1101 117	Thursday, 23/05/2013	13:07:19	07/06/2013	14/06/2013	5	115	0.097	94.0	
068 530	Friday, 24/05/2013	12:40:05	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
067 34	Sunday, 26/05/2013	12:28:54	07/06/2013	14/06/2013	5	115	0.129	81.9	
068 54	Sunday, 26/05/2013	12:28:54	07/06/2013	14/06/2013	5	115	0.129	81.9	
067 41	Monday, 27/05/2013	12:23:33	07/06/2013	14/06/2013	5	115	0.145	81.9	
068 15	Wednesday, 29/05/2013	12:40:40	07/06/2013	14/06/2013	5	115	0.091	98.8	
067 35	Wednesday, 29/05/2013	12:40:40	07/06/2013	14/06/2013	5	115	0.091	98.8	
1101 109	Wednesday, 29/05/2013	12:50:32	07/06/2013	14/06/2013	5	115	0.097	88.0	
068 506 509	Friday, 31/05/2013	12:28:00	07/06/2013	14/06/2013	5	115	0.097	100.0	
068 506 509	Friday, 31/05/2013	12:41:40	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
1101 98	Friday, 31/05/2013	12:45:32	07/06/2013	14/06/2013	5	115	na	na	unit calling home at black time
JUNE									
1101 108	Saturday, 1/06/13	12:27:18	09/07/2013	14/07/2013	5	115	0.090	94.0	
1101 104	Sunday, 4/06/13	12:54:10	09/07/2013	14/07/2013	5	115	0.100	81.9	
1101 114	Wednesday, 5/06/13	12:41:50	09/07/2013	14/07/2013	5	115	0.105	81.9	
1101 113	Wednesday, 5/06/2013	12:41:34	09/07/2013	14/07/2013	5	115	0.100	81.9	
068 17	Friday, 7/06/2013	12:48:17	09/07/2013	14/07/2013	5	115	0.180	148.0	
068 518 519	Friday, 7/06/2013	12:48:17	09/07/2013	14/07/2013	5	115	0.180	91.5	
068 167	Saturday, 8/06/2013	12:34:02	09/07/2013	14/07/2013	5	115	0.100	95.5	
068 167	Saturday, 8/06/2013	12:41:50	09/07/2013	14/07/2013	5	115	0.100	81.9	
068 18	Sunday, 9/06/2013	12:34:24	09/07/2013	14/07/2013	5	115	0.100	81.9	
1102 59	Monday, 10/06/2013	12:37:33	09/07/2013	14/07/2013	5	115	0.110	110.0	
068 20	Tuesday, 11/06/2013	12:05:38	09/07/2013	14/07/2013	5	115	0.100	81.9	
068 196	Tuesday, 11/06/2013	12:05:38	09/07/2013	14/07/2013	5	115	0.100	81.9	
068 196	Wednesday, 12/06/2013	12:35:24	09/07/2013	14/07/2013	5	115	0.100	88.0	
068 191	Friday, 14/06/2013	12:39:55	09/07/2013	14/07/2013	5	115	0.150	94.0	
068 514	Friday, 14/06/2013	12:39:55	09/07/2013	14/07/2013	5	115	0.150	94.0	
1101 116	Saturday, 15/06/2013	12:04:06	09/07/2013	14/07/2013	5	115	0.140	98.8	
1101 108	Saturday, 15/06/2013	12:05:11	09/07/2013	14/07/2013	5	115	0.140	98.8	
1102 46	Sunday, 16/06/2013	12:27:23	09/07/2013	14/07/2013	5	115	0.100	95.5	
068 11	Monday, 17/06/2013	12:36:00	09/07/2013	14/07/2013	5	115	0.120	100.0	
068 512	Tuesday, 18/06/2013	12:34:21	09/07/2013	14/07/2013	5	115	0.180	97.5	
1101 100	Tuesday, 18/06/2013	12:49:10	09/07/2013	14/07/2013	5	115	0.100	100.0	
1102 110	Wednesday, 19/06/2013	12:35:30	09/07/2013	14/07/2013	5	115	0.100	81.9	
068 533	Wednesday, 19/06/2013	12:35:28	09/07/2013	14/07/2013	5	115	0.150	81.9	
068 10	Thursday, 20/06/2013	12:42:35	09/07/2013	14/07/2013	5	115	0.100	81.9	
068 20	Saturday, 22/06/2013								

1101 530	Saturday, 02/01/2013	12:38:00	07/02/2013	14/02/2013	5	115	0.087	88.0	
1101 531	Saturday, 02/01/2013	12:40:10	07/02/2013	14/02/2013	5	115	0.085	92.5	
1101 56A	Saturday, 02/01/2013	12:40:10	07/02/2013	14/02/2013	5	115	0.185	92.5	
1101 86B	Monday, 27/02/2013	12:44:20	07/02/2013	14/02/2013	5	115	0.108	100.0	
1101 27	Monday, 27/02/2013	12:44:20	07/02/2013	14/02/2013	5	115	0.108	100.0	
1101 529	Monday, 27/02/2013	12:48:53	07/02/2013	14/02/2013	5	115	0.105	96.0	
1101 44	Monday, 04/03/2013	12:49:00	07/02/2013	14/02/2013	5	115	0.101	96.0	
1101 46	Tuesday, 05/03/2013	12:49:00	07/02/2013	14/02/2013	5	115	0.102	107.0	
1101 26	Wednesday, 06/03/2013	12:52:00	07/02/2013	14/02/2013	5	115	0.111	92.5	
1101 44	Thursday, 07/03/2013	12:54:00	07/02/2013	14/02/2013	5	115	0.087	92.5	
1101 26	Friday, 11/03/2013	12:58:00	07/02/2013	14/02/2013	5	115	0.087	92.5	
1101 26	Saturday, 13/03/2013	12:58:00	07/02/2013	14/02/2013	5	115	0.090	92.5	
1101 43	Sunday, 17/03/2013	13:20:00	07/02/2013	14/02/2013	5	115	0.068	100.0	
1101 36	Monday, 18/03/2013	13:27:00	07/02/2013	14/02/2013	5	115	0.104	92.5	
1101 37	Monday, 18/03/2013	13:27:00	07/02/2013	14/02/2013	5	115	0.087	92.5	
1101 41	Tuesday, 19/03/2013	13:20:00	07/02/2013	14/02/2013	5	115	0.083	88.0	
1101 34	Tuesday, 19/03/2013	13:20:00	07/02/2013	14/02/2013	5	115	0.083	88.0	
1101 33	Thursday, 17/03/2013	16:02:14	07/02/2013	14/02/2013	5	115	0.087	94.0	
1101 34	Saturday, 16/03/2013	16:16:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 31	Sunday, 24/03/2013	12:36:35	07/02/2013	14/02/2013	5	115			Unit offline
1101 29	Monday, 21/03/2013	12:58:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 116	Monday, 21/03/2013	14:01:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 26	Tuesday, 22/03/2013	12:58:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 28	Wednesday, 23/03/2013	12:58:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 40	Thursday, 24/03/2013	12:29:16	07/02/2013	14/02/2013	5	115			Unit offline
1101 29	Friday, 25/03/2013	12:29:16	07/02/2013	14/02/2013	5	115			Unit offline
1101 38	Saturday, 26/03/2013	12:42:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 38	Sunday, 27/03/2013	12:29:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 23	Monday, 28/03/2013	12:39:58	07/02/2013	14/02/2013	5	115			Unit offline
1101 41	Monday, 28/03/2013	12:36:00	07/02/2013	14/02/2013	5	115			Unit offline
1101 27	Wednesday, 28/03/2013	12:36:28	07/02/2013	14/02/2013	5	115			Unit offline
1101 116	Thursday, 14/03/2013	12:44:00	07/02/2013	14/02/2013	5	115	0.130	113.5	
FEBRUARY									
1101 38	Saturday, 23/02/2013	12:31:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 46	Sunday, 02/03/2013	12:25:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 46	Monday, 07/03/2013	12:45:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 55	Tuesday, 08/03/2013	12:36:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 44	Thursday, 09/03/2013	12:44:41	08/03/2013	14/03/2013	5	115			Unit offline
1101 35	Friday, 13/03/2013	12:31:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 41	Wednesday, 13/03/2013	12:34:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 36	Thursday, 14/03/2013	12:47:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 41	Friday, 15/03/2013	12:44:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 46	Saturday, 16/03/2013	12:48:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 41	Monday, 18/03/2013	12:35:57	08/03/2013	14/03/2013	5	115			Unit offline
1101 29	Monday, 18/03/2013	12:41:04	08/03/2013	14/03/2013	5	115			Unit offline
1101 36	Wednesday, 20/03/2013	12:39:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 41	Thursday, 21/03/2013	12:44:00	08/03/2013	14/03/2013	5	115	0.120	111.8	
1101 46	Friday, 22/03/2013	12:48:00	08/03/2013	14/03/2013	5	115			Unit offline
1101 41	Saturday, 23/03/2013	12:35:57	08/03/2013	14/03/2013	5	115			Unit offline
1101 29	Sunday, 24/03/2013	12:41:04	08/03/2013	14/03/2013	5	115			Unit offline
1101 36	Monday, 25/03/2013	12:45:15	08/03/2013	14/03/2013	5	115			Unit offline
1101 46	Monday, 27/03/2013	12:35:15	08/03/2013	14/03/2013	5	115			Unit offline
MARCH									
1101 26	Sunday, 31/03/2013	12:37:00	05/04/2013	14/04/2013	5	115			Unit offline
1101 38	Monday, 04/04/2013	12:40:00	05/04/2013	14/04/2013	5	115			Unit offline
1101 50B	Tuesday, 05/04/2013	12:43:30	05/04/2013	14/04/2013	5	115			Unit offline
1101 41	Wednesday, 06/04/2013	12:46:00	05/04/2013	14/04/2013	5	115			Unit offline
1101 29	Thursday, 08/04/2013	12:46:00	05/04/2013	14/04/2013	5	115	0.080	88.0	
1101 33A	Friday, 09/04/2013	12:39:00	05/04/2013	14/04/2013	5	115	0.080	88.0	
1101 38	Saturday, 09/04/2013	12:34:00	05/04/2013	14/04/2013	5	115	0.080	88.0	
1101 55B	Sunday, 14/04/2013	12:28:00	05/04/2013	14/04/2013	5	115	0.150	92.5	
1101 36	Monday, 15/04/2013	12:26:11	05/04/2013	14/04/2013	5	115	0.120	111.8	
1101 40	Wednesday, 13/04/2013	12:34:44	05/04/2013	14/04/2013	5	115	0.080	96.8	
1101 26	Thursday, 14/04/2013	12:35:44	05/04/2013	14/04/2013	5	115	0.130	113.5	
1101 40	Friday, 15/04/2013	12:32:19	05/04/2013	14/04/2013	5	115	0.110	92.5	
1101 36	Saturday, 16/04/2013	12:26:05	05/04/2013	14/04/2013	5	115	0.090	92.5	
1101 29	Sunday, 17/04/2013	12:28:20	05/04/2013	14/04/2013	5	115	0.090	101.0	
1101 37	Monday, 18/04/2013	12:38:00	05/04/2013	14/04/2013	5	115	0.090	92.5	
1101 32	Monday, 18/04/2013	12:49:00	05/04/2013	14/04/2013	5	115	0.090	92.5	
1101 50C	Tuesday, 19/04/2013	12:44:51	05/04/2013	14/04/2013	5	115	0.080	88.0	
1101 26	Wednesday, 20/04/2013	12:34:59	05/04/2013	14/04/2013	5	115	0.090	92.5	
1101 53A 113B	Thursday, 21/04/2013	12:57:25	05/04/2013	14/04/2013	5	115	0.150	118.8	Arbitrated overspeed event exceeded was caused by local environmental factors
1101 29	Friday, 23/04/2013	12:58:00	05/04/2013	14/04/2013	5	115	0.120	111.8	
1101 119	Saturday, 23/04/2013	12:37:37	05/04/2013	14/04/2013	5	115	0.110	88.0	
1101 47	Sunday, 24/04/2013	12:57:32	05/04/2013	14/04/2013	5	115	0.210	88.0	
1101 26	Monday, 25/04/2013	12:46:00	05/04/2013	14/04/2013	5	115	0.210	88.0	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 120	Sunday, 24/04/2013	12:26:28	05/04/2013	14/04/2013	5	115	0.090	96.9	
1101 46	Monday, 24/04/2013	12:30:00	05/04/2013	14/04/2013	5	115	0.130	81.9	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 38 39	Monday, 25/04/2013	12:17:00	05/04/2013	14/04/2013	5	115	0.100	88.0	
1101 121	Tuesday, 26/04/2013	12:27:39	05/04/2013	14/04/2013	5	115	0.090	88.0	
1101 113	Wednesday, 27/04/2013	12:29:13	05/04/2013	14/04/2013	5	115	0.100	88.0	
1101 46	Wednesday, 27/04/2013	12:37:45	05/04/2013	14/04/2013	5	115	0.100	101.5	
1101 45	Wednesday, 27/04/2013	12:37:45	05/04/2013	14/04/2013	5	115	0.100	101.5	
1101 50B	Thursday, 28/04/2013	12:29:34	05/04/2013	14/04/2013	5	115	0.110	106.0	
1101 46	Friday, 29/04/2013	12:31:00	05/04/2013	14/04/2013	5	115	0.090	106.0	
1101 26	Friday, 29/04/2013	12:35:00	05/04/2013	14/04/2013	5	115	0.090	92.5	
1101 122	Saturday, 30/04/2013	12:58:12	05/04/2013	14/04/2013	5	115	0.090	92.5	
1101 110B	Saturday, 30/04/2013	12:33:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
1101 119	Saturday, 30/04/2013	12:35:00	05/04/2013	14/04/2013	5	115	0.080	88.0	
1101 113	Sunday, 01/05/2013	12:26:00	05/04/2013	14/04/2013	5	115	0.090	88.0	
1101 41	Sunday, 01/05/2013	12:35:00	05/04/2013	14/04/2013	5	115	0.090	88.0	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
APRIL									
1101 124	Monday, 1/04/2013	12:30:30	08/05/2013	14/05/2013	5	115	0.098	94.0	
1101 27 28	Tuesday, 2/04/2013	13:04:35	08/05/2013	14/05/2013	5	115	0.170	100.0	
1101 51B	Wednesday, 24/04/2013	13:04:35	08/05/2013	14/05/2013	5	115	0.170	100.0	
1101 30	Wednesday, 3/04/2013	12:31:55	08/05/2013	14/05/2013	5	115	0.078	88.0	
1101 25	Thursday, 04/04/2013	12:37:00	08/05/2013	14/05/2013	5	115	na	92.9	Ground vibration sensor failed on 14/4/13, a replacement sensor is to be fitted late April
1101 511	Thursday, 04/04/2013	12:37:00	08/05/2013	14/05/2013	5	115	na	92.9	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 36	Friday, 05/04/2013	12:36:00	08/05/2013	14/05/2013	5	115	na	92.9	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 33	Friday, 05/04/2013	12:36:00	08/05/2013	14/05/2013	5	115	na	92.9	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 32	Sunday, 7/04/2013	12:36:52	08/05/2013	14/05/2013	5	115	na	88.0	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 124	Monday, 7/04/2013	12:31:00	08/05/2013	14/05/2013	5	115	na	91.5	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 125	Monday, 8/04/2013	12:33:00	08/05/2013	14/05/2013	5	115	na	91.5	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 46	Monday, 8/04/2013	12:34:00	08/05/2013	14/05/2013	5	115	na	94.0	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 126	Tuesday, 9/04/2013	12:27:00	08/05/2013	14/05/2013	5	115	na	88.0	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 40	Tuesday, 9/04/2013	12:29:30	08/05/2013	14/05/2013	5	115	na	81.9	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 123	Wednesday, 10/04/2013	12:31:00	08/05/2013	14/05/2013	5	115	na	91.5	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 127	Thursday, 11/04/2013	12:31:00	08/05/2013	14/05/2013	5	115	na	91.5	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 46	Friday, 12/04/2013	12:32:00	08/05/2013	14/05/2013	5	115	na	88.0	A replacement ground vibration sensor is to be fitted late April (replacement fitted 24/4/13)
1101 3									

088 11	Monday, 12/06/2013	12:36:00	09/07/2013	14/07/2013	5	115	0:130	91.5
088 12	Tuesday, 18/06/2013	12:36:00	09/07/2013	14/07/2013	5	115	0:090	91.9
1100 107	Tuesday, 18/06/2013	12:49:10	09/07/2013	14/07/2013	5	115	0:080	81.9
1092 101	Wednesday, 19/06/2013	12:35:28	09/07/2013	14/07/2013	5	115	0:190	114.6
1081 133	Wednesday, 19/06/2013	12:35:28	09/07/2013	14/07/2013	5	115	0:190	114.6
088 10	Thursday, 20/06/2013	12:42:35	09/07/2013	14/07/2013	5	115	0:070	81.9
088 20	Thursday, 20/06/2013	12:42:35	09/07/2013	14/07/2013	5	115	0:070	81.9
1092 109	Thursday, 20/06/2013	12:49:00	09/07/2013	14/07/2013	5	115	0:070	81.9
088 21	Friday, 21/06/2013	12:57:27	09/07/2013	14/07/2013	5	115	0:070	91.5
1101 105	Friday, 21/06/2013	12:57:27	09/07/2013	14/07/2013	5	115	0:070	91.5
1088 134	Monday, 24/06/2013	12:36:00	09/07/2013	14/07/2013	5	115	0:100	104.9
088 8	Monday, 24/06/2013	12:36:00	09/07/2013	14/07/2013	5	115	0:100	104.9
088 22	Tuesday, 25/06/2013	12:40:49	09/07/2013	14/07/2013	5	115	0:070	91.5
088 11	Wednesday, 26/06/2013	12:32:27	09/07/2013	14/07/2013	5	115	0:070	91.5
1101 106	Wednesday, 26/06/2013	12:32:27	09/07/2013	14/07/2013	5	115	0:070	91.5
088 12	Friday, 28/06/2013	12:41:56	09/07/2013	14/07/2013	5	115	-	-
1088 138 135	Friday, 28/06/2013	12:41:56	09/07/2013	14/07/2013	5	115	-	-
088 23	Saturday, 29/06/2013	12:31:00	09/07/2013	14/07/2013	5	115	-	-
1092 97	Saturday, 29/06/2013	12:40:25	09/07/2013	14/07/2013	5	115	0:070	81.9
088 13	Sunday, 30/06/2013	12:36:49	09/07/2013	14/07/2013	5	115	0:070	81.9
088 30	Sunday, 30/06/2013	12:36:49	09/07/2013	14/07/2013	5	115	0:080	81.9
AUG								
1092 100	Monday, 1/07/2013	12:58:55	09/08/2013	14/08/2013	5	115	0:080	94.0
088 26	Tuesday, 2/07/2013	12:30:00	09/08/2013	14/08/2013	5	115	0:110	100.0
088 24	Tuesday, 2/07/2013	12:30:00	09/08/2013	14/08/2013	5	115	0:070	98.8
1092 111	Wednesday, 3/07/2013	12:40:53	09/08/2013	14/08/2013	5	115	0:090	101.0
1092 117	Wednesday, 3/07/2013	12:42:00	09/08/2013	14/08/2013	5	115	0:070	94.0
1092 113	Thursday, 4/07/2013	12:30:00	09/08/2013	14/08/2013	5	115	0:070	91.5
1088 140	Thursday, 4/07/2013	12:33:11	09/08/2013	14/08/2013	5	115	0:080	91.5
1088 141 139	Friday, 5/07/2013	12:39:43	09/08/2013	14/08/2013	5	115	0:070	95.0
1101 104	Friday, 5/07/2013	12:39:43	09/08/2013	14/08/2013	5	115	0:070	95.0
1088 136	Saturday, 7/07/2013	12:39:08	09/08/2013	14/08/2013	5	115	0:070	91.5
1088 137	Monday, 8/07/2013	12:36:55	09/08/2013	14/08/2013	5	115	0:070	88.0
088 25	Monday, 8/07/2013	12:38:43	09/08/2013	14/08/2013	5	115	0:110	95.0
088 25	Tuesday, 9/07/2013	12:50:45	09/08/2013	14/08/2013	5	115	0:070	91.9
1092 125	Wednesday, 10/07/2013	12:50:30	09/08/2013	14/08/2013	5	115	0:090	81.9
1088 138 140	Wednesday, 10/07/2013	12:50:45	09/08/2013	14/08/2013	5	115	0:120	91.9
088 16	Thursday, 11/07/2013	12:35:37	09/08/2013	14/08/2013	5	115	0:090	81.9
088 20	Thursday, 11/07/2013	12:36:34	09/08/2013	14/08/2013	5	115	0:090	81.9
1092 106	Friday, 12/07/2013	12:49:47	09/08/2013	14/08/2013	5	115	0:070	81.9
088 18	Friday, 12/07/2013	12:33:41	09/08/2013	14/08/2013	5	115	0:170	91.5
1088 143	Saturday, 13/07/2013	12:39:03	09/08/2013	14/08/2013	5	115	0:090	81.9
1088 95	Saturday, 13/07/2013	12:39:40	09/08/2013	14/08/2013	5	115	0:120	88.0
088 26	Sunday, 14/07/2013	12:34:20	09/08/2013	14/08/2013	5	115	0:080	91.5
1088 96	Monday, 15/07/2013	12:31:00	09/08/2013	14/08/2013	5	115	0:070	81.9
088 31	Monday, 15/07/2013	12:29:00	09/08/2013	14/08/2013	5	115	0:110	91.5
1088 137	Tuesday, 16/07/2013	12:37:00	09/08/2013	14/08/2013	5	115	0:100	91.5
1092 124	Saturday, 20/07/2013	12:45:37	09/08/2013	14/08/2013	5	115	0:080	101.0
088 27	Sunday, 21/07/2013	12:08:17	09/08/2013	14/08/2013	5	115	0:080	91.5
1092 107	Monday, 22/07/2013	12:42:52	09/08/2013	14/08/2013	5	115	0:070	81.9
1092 119	Monday, 22/07/2013	12:46:52	09/08/2013	14/08/2013	5	115	0:070	94.0
1088 141	Tuesday, 23/07/2013	12:49:20	09/08/2013	14/08/2013	5	115	0:090	91.9
1088 144	Tuesday, 23/07/2013	12:50:48	09/08/2013	14/08/2013	5	115	0:110	104.9
1092 120	Wednesday, 24/07/2013	12:31:28	09/08/2013	14/08/2013	5	115	0:080	88.0
1088 138	Wednesday, 24/07/2013	12:31:28	09/08/2013	14/08/2013	5	115	0:070	88.0
1088 145	Thursday, 25/07/2013	12:32:28	09/08/2013	14/08/2013	5	115	0:100	100.0
1092 108	Thursday, 25/07/2013	12:32:28	09/08/2013	14/08/2013	5	115	0:100	100.0
088 22	Friday, 26/07/2013	12:28:00	09/08/2013	14/08/2013	5	115	0:070	81.9
1088 146 145	Friday, 26/07/2013	12:28:12	09/08/2013	14/08/2013	5	115	0:170	107.0
088 12	Saturday, 27/07/2013	12:38:12	09/08/2013	14/08/2013	5	115	0:100	100.0
088 3 4	Sunday, 28/07/2013	12:38:22	09/08/2013	14/08/2013	5	115	0:140	101.0
088 24	Sunday, 28/07/2013	12:38:22	09/08/2013	14/08/2013	5	115	0:140	101.0
1092 110	Monday, 29/07/2013	12:35:23	09/08/2013	14/08/2013	5	115	0:090	91.5
088 31	Tuesday, 30/07/2013	12:35:04	09/08/2013	14/08/2013	5	115	0:070	88.0
1088 147	Wednesday, 31/07/2013	12:30:48	09/08/2013	14/08/2013	5	115	0:070	91.5
088 9	Wednesday, 31/07/2013	12:27:09	09/08/2013	14/08/2013	5	115	0:090	94.0
AUGUST								
1088 147	Thursday, 1/8/13	12:36:17	09/09/2013	14/09/2013	5	115	0:220	110.0
088 14	Thursday, 1/8/13	12:40:00	09/09/2013	14/09/2013	5	115	0:070	88.0
1092 112	Friday, 2/8/13	12:35:55	09/09/2013	14/09/2013	5	115	0:110	101.0
1092 106	Friday, 2/8/13	12:35:00	09/09/2013	14/09/2013	5	115	0:070	101.0
1092 112	Saturday, 3/8/13	12:45:08	09/09/2013	14/09/2013	5	115	0:090	91.5
1088 36	Saturday, 3/8/13	12:45:08	09/09/2013	14/09/2013	5	115	0:090	97.5
088 21	Monday, 4/8/13	12:38:36	09/09/2013	14/09/2013	5	115	0:070	108.0
1092 111	Monday, 4/8/13	12:38:05	09/09/2013	14/09/2013	5	115	0:070	108.0
088 13	Monday, 4/8/13	12:39:38	09/09/2013	14/09/2013	5	115	0:080	101.0
088 21	Tuesday, 5/8/13	12:32:06	09/09/2013	14/09/2013	5	115	0:130	101.0
1088 34	Tuesday, 5/8/13	12:33:29	09/09/2013	14/09/2013	5	115	0:090	104.9
1092 118	Wednesday, 7/8/13	12:30:40	09/09/2013	14/09/2013	5	115	0:070	81.9
1088 44 111	Wednesday, 7/8/13	12:31:00	09/09/2013	14/09/2013	5	115	0:070	81.9
1088 105	Thursday, 8/8/13	12:42:41	09/09/2013	14/09/2013	5	115	0:110	94.0
1092 105	Thursday, 8/8/13	12:42:02	09/09/2013	14/09/2013	5	115	0:080	91.5
1092 117	Saturday, 9/8/13	12:35:16	09/09/2013	14/09/2013	5	115	0:070	108.0
088 06	Saturday, 11/8/13	12:29:00	09/09/2013	14/09/2013	5	115	0:070	81.9
1092 106	Saturday, 11/8/13	12:34:17	09/09/2013	14/09/2013	5	115	0:110	101.0
1092 106	Monday, 12/8/13	12:51:36	09/09/2013	14/09/2013	5	115	0:100	104.9
088 46	Monday, 12/8/13	12:38:12	09/09/2013	14/09/2013	5	115	0:080	91.9
1088 39	Monday, 12/8/13	12:30:00	09/09/2013	14/09/2013	5	115	0:090	88.0
1092 116	Tuesday, 13/8/13	12:32:00	09/09/2013	14/09/2013	5	115	0:070	81.9
088 47	Tuesday, 13/8/13	12:32:00	09/09/2013	14/09/2013	5	115	0:170	101.5
088 97	Friday, 16/8/13	12:35:49	09/09/2013	14/09/2013	5	115	0:100	107.0
088 50	Friday, 16/8/13	12:38:01	09/09/2013	14/09/2013	5	115	0:090	91.5
088 50	Saturday, 17/8/13	12:38:01	09/09/2013	14/09/2013	5	115	0:090	91.5
1088 144	Saturday, 17/8/13	12:32:25	09/09/2013	14/09/2013	5	115	0:160	91.5
088 51	Sunday, 18/8/13	12:38:01	09/09/2013	14/09/2013	5	115	0:090	91.5
088 09	Monday, 19/8/13	12:28:54	09/09/2013	14/09/2013	5	115	0:160	100.0
088 09	Monday, 19/8/13	12:28:54	09/09/2013	14/09/2013	5	115	0:160	100.0
088 50	Monday, 19/8/13	12:28:54	09/09/2013	14/09/2013	5	115	0:160	100.0
1088 145	Monday, 19/8/13	12:27:56	09/09/2013	14/09/2013	5	115	0:090	98.8
1092 114	Tuesday, 20/8/13	12:36:00	09/09/2013	14/09/2013	5	115	0:100	101.0
1092 122	Tuesday, 20/8/13	12:35:00	09/09/2013	14/09/2013	5	115	0:070	81.9
1092 122	Friday, 23/8/13	12:31:00	09/09/2013	14/09/2013	5	115	0:100	106.5
088 10	Friday, 23/8/13	12:43:59	09/09/2013	14/09/2013	5	115	0:070	91.5
088 10	Friday, 23/8/13	12:43:59	09/09/2013	14/09/2013	5	115	0:070	91.5
088 5	Monday, 26/8/13	12:46:40	09/09/2013	14/09/2013	5	115	0:250	91.5
088 50	Monday, 26/8/13	12:46:40	09/09/2013	14/09/2013	5	115	0:250	91.5
088 50	Tuesday, 27/8/13	12:31:29	09/09/2013	14/09/2013	5	115	0:160	88.0
1092 115	Tuesday, 27/8/13	12:30:00	09/09/2013	14/09/2013	5	115	0:070	81.9
1092 115	Wednesday, 28/8/13	12:30:00	09/09/2013	14/09/2013	5	115	0:070	81.9
088 49	Thursday, 29/8/13	12:35:49	09/09/2013	14/09/2013	5	115	0:100	107.0
088 50	Thursday, 29/8/13	12:35:49	09/09/2013	14/09/2013	5	115	0:100	107.0
088 97	Friday, 30/8/13	12:33:00	09/09/2013	14/09/2013	5	115	0:100	81.9
088 11	Friday, 30/8/13	12:34:00	09/09/2013	14/09/2013	5	115	0:070	81.9
088 11	Saturday, 31/8/13	12:36:00	09/09/2013	14/09/2013	5	115	0:070	81.9
088 121	Saturday, 31/8/13</							

1047 548	Tuesday, 04/12/2013	12:35:35	06/12/2013	14/12/2013	5	115	0.140	94.0	
1047 54	Wednesday, 04/12/2013	12:35:44	06/12/2013	14/12/2013	5	115	0.145	94.0	
1046 20	Thursday, 04/12/2013	12:26:53	06/12/2013	14/12/2013	5	115	0.120	96.8	
1045 83	Thursday, 04/12/2013	12:26:53	06/12/2013	14/12/2013	5	115	0.120	96.8	
013 18	Friday, 06/12/2013	12:32:54	06/12/2013	14/12/2013	5	115	0.140	107.9	
1046 75	Saturday, 06/12/2013	12:27:11	06/12/2013	14/12/2013	5	115	0.090	97.5	
013 12	Saturday, 06/12/2013	12:27:11	06/12/2013	14/12/2013	5	115	0.090	97.5	
1047 48	Sunday, 09/12/2013	12:45:52	06/12/2013	14/12/2013	5	115	0.090	88.0	
1047 549	Monday, 09/12/2013	12:27:45	06/12/2013	14/12/2013	5	115	0.130	100.0	
001 3014	Tuesday, 10/12/2013	12:28:00	06/12/2013	14/12/2013	5	115	0.090	88.0	
013 17	Tuesday, 10/12/2013	12:35:41	06/12/2013	14/12/2013	5	115	0.100	88.0	
1046 148	Wednesday, 10/12/2013	12:35:45	06/12/2013	14/12/2013	5	115	0.100	100.0	
1045 84	Wednesday, 10/12/2013	12:34:41	06/12/2013	14/12/2013	5	115	0.090	97.5	
013 14	Thursday, 10/12/2013	12:35:36	06/12/2013	14/12/2013	5	115	0.090	94.5	
1045 549	Thursday, 10/12/2013	12:37:44	06/12/2013	14/12/2013	5	115	0.100	100.0	
001 507	Friday, 06/12/2013	12:32:23	06/12/2013	14/12/2013	5	115	0.100	94.5	
1046 75	Saturday, 06/12/2013	12:27:11	06/12/2013	14/12/2013	5	115	0.090	88.0	
1046 71	Sunday, 09/12/2013	12:34:48	06/12/2013	14/12/2013	5	115	0.120	88.0	
013 15	Sunday, 09/12/2013	12:44:58	06/12/2013	14/12/2013	5	115	0.090	88.0	
001 506	Monday, 09/12/2013	12:33:00	06/12/2013	14/12/2013	5	115	0.090	94.5	
1047 104	Monday, 09/12/2013	12:50:55	06/12/2013	14/12/2013	5	115	0.150	112.6	
1046 550	Tuesday, 10/12/2013	12:35:45	06/12/2013	14/12/2013	5	115	0.100	112.6	
1047 550	Tuesday, 10/12/2013	12:00:24	06/12/2013	14/12/2013	5	115	0.090	94.5	
1047 104	Tuesday, 10/12/2013	12:04:27	06/12/2013	14/12/2013	5	115	0.090	94.0	
1047 505	Wednesday, 20/12/2013	12:39:00	06/12/2013	14/12/2013	5	115	0.090	94.5	
1045 554	Thursday, 21/12/2013	12:32:08	06/12/2013	14/12/2013	5	115	0.090	94.5	
1045 35	Thursday, 21/12/2013	12:39:46	06/12/2013	14/12/2013	5	115	0.090	88.0	
001 509	Friday, 20/12/2013	12:33:56	06/12/2013	14/12/2013	5	115	0.110	94.5	
1047 106	Friday, 20/12/2013	12:42:38	06/12/2013	14/12/2013	5	115	0.100	97.5	
001 508	Saturday, 20/12/2013	12:36:00	06/12/2013	14/12/2013	5	115	0.100	97.5	
1046 72	Saturday, 20/12/2013	12:40:10	06/12/2013	14/12/2013	5	115	0.090	95.8	
1046 74	Sunday, 24/12/2013	12:27:55	06/12/2013	14/12/2013	5	115	0.090	94.0	
1047 112	Sunday, 24/12/2013	12:29:38	06/12/2013	14/12/2013	5	115	0.090	94.5	
001 505	Monday, 25/12/2013	12:33:26	06/12/2013	14/12/2013	5	115	0.110	94.5	
1047 110	Monday, 25/12/2013	12:35:53	06/12/2013	14/12/2013	5	115	0.100	98.0	
1045 551	Monday, 25/12/2013	12:36:17	06/12/2013	14/12/2013	5	115	0.090	88.0	
001 501 5018	Tuesday, 26/12/2013	12:33:00	06/12/2013	14/12/2013	5	115	0.090	94.5	
1045 553A	Tuesday, 26/12/2013	12:35:46	06/12/2013	14/12/2013	5	115	0.100	88.0	
1046 71	Wednesday, 27/12/2013	12:37:54	06/12/2013	14/12/2013	5	115	0.120	94.5	
1045 553B	Wednesday, 27/12/2013	12:35:53	06/12/2013	14/12/2013	5	115	0.100	94.5	
1047 109	Thursday, 28/12/2013	12:29:51	06/12/2013	14/12/2013	5	115	0.100	104.9	
1045 552	Thursday, 28/12/2013	12:29:51	06/12/2013	14/12/2013	5	115	0.090	94.5	
001 501 504	Friday, 29/12/2013	12:45:12	06/12/2013	14/12/2013	5	115	0.090	100.0	
013 02	Friday, 29/12/2013	12:47:37	06/12/2013	14/12/2013	5	115	0.090	95.8	
1046 75	Saturday, 06/12/2013	12:39:45	06/12/2013	14/12/2013	5	115	0.090	94.5	
OCTOBER									
1047 113	Sunday, 11/12/2013	12:58:11	09/01/2014	14/01/2014	5	115	0.100	94.5	
1047 111	Sunday, 11/12/2013	12:00:52	09/01/2014	14/01/2014	5	115	0.110	94.5	
013 2	Monday, 22/12/2013	12:49:21	09/01/2014	14/01/2014	5	115	0.100	88.0	Airblast overpressure exceedance was caused by the aircraft environmental factors
1047 118	Monday, 22/12/2013	12:52:18	09/01/2014	14/01/2014	5	115	0.100	94.5	Airblast overpressure exceedance was caused by the aircraft environmental factors
013 4	Wednesday, 4/12/2013	12:46:46	08/01/2014	14/01/2014	5	115	0.150	106.0	
1045 58	Wednesday, 4/12/2013	12:06:16	08/01/2014	14/01/2014	5	115	0.150	104.6	
1047 117	Thursday, 5/12/2013	12:52:25	09/01/2014	14/01/2014	5	115	0.120	95.8	
013 7	Thursday, 12/12/2013	12:22:43	09/01/2014	14/01/2014	5	115	0.120	94.5	
1047 109	Thursday, 12/12/2013	12:48:16	09/01/2014	14/01/2014	5	115	0.100	104.9	
1047 72	Monday, 19/12/2013	12:30:57	08/01/2014	14/01/2014	5	115	0.140	104.4	
1047 114	Monday, 19/12/2013	12:32:00	08/01/2014	14/01/2014	5	115	0.140	104.2	
013 6	Thursday, 12/12/2013	12:47:30	09/01/2014	14/01/2014	5	115	0.120	94.5	
1047 106	Friday, 12/12/2013	12:42:38	09/01/2014	14/01/2014	5	115	0.120	94.5	
1047 115	Thursday, 12/12/2013	12:38:00	09/01/2014	14/01/2014	5	115	0.100	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1045 553	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	
1047 73	Friday, 13/12/2013	12:31:52	08/01/2014	14/01/2014	5	115	0.090	94.0	
1046 70	Saturday, 14/12/2013	12:35:55	08/01/2014	14/01/2014	5	115	0.090	88.0	
1047 107 108	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.080	88.0	
1047 110	Sunday, 15/12/2013	12:55:00	09/01/2014	14/01/2014	5	115	0.090	100.0	
1047 111	Monday, 16/12/2013	12:55:10	09/01/2014	14/01/2014	5	115	0.090	94.5	

1110 124	Sunday, 7/04/2011	12 1800	08/05/2011	14/05/2011	5	115	0.075	94.0	
1110 125	Monday, 8/04/2011	12 1800	08/05/2011	14/05/2011	5	115	0.075	94.0	
1110 126	Tuesday, 9/04/2011	12 1700	08/05/2011	14/05/2011	5	115	0.083	88.0	
1110 127	Wednesday, 10/04/2011	12 1900	08/05/2011	14/05/2011	5	115	0.078	91.0	
1110 128	Thursday, 11/04/2011	12 1900	08/05/2011	14/05/2011	5	115	0.081	81.0	
1110 129	Friday, 12/04/2011	12 4011	08/05/2011	14/05/2011	5	115	0.081	81.0	
1110 130	Saturday, 13/04/2011	12 4400	08/05/2011	14/05/2011	5	115	0.079	81.5	
1110 131	Sunday, 14/04/2011	12 4600	08/05/2011	14/05/2011	5	115	0.086	91.5	
1110 132	Monday, 15/04/2011	12 3000	08/05/2011	14/05/2011	5	115	0.075	91.5	
1110 133	Tuesday, 16/04/2011	12 3200	08/05/2011	14/05/2011	5	115	0.081	81.0	
1110 134	Wednesday, 17/04/2011	12 2318	08/05/2011	14/05/2011	5	115	0.081	81.0	
1110 135	Thursday, 18/04/2011	12 3349	08/05/2011	14/05/2011	5	115	0.113	105.5	
1110 136	Friday, 19/04/2011	12 3349	08/05/2011	14/05/2011	5	115	0.113	105.5	
1110 137	Saturday, 20/04/2011	12 3400	08/05/2011	14/05/2011	5	115	0.086	90.0	
1110 138	Sunday, 21/04/2011	12 2428	08/05/2011	14/05/2011	5	115	0.081	81.0	
1110 139	Monday, 22/04/2011	12 3920	08/05/2011	14/05/2011	5	115	0.087	96.8	
1110 140	Tuesday, 23/04/2011	12 3601	08/05/2011	14/05/2011	5	115	0.117	99.0	
1110 141	Wednesday, 24/04/2011	12 4600	08/05/2011	14/05/2011	5	115	0.087	91.5	
1110 142	Thursday, 25/04/2011	12 4300	08/05/2011	14/05/2011	5	115	0.086	90.0	
1110 143	Friday, 26/04/2011	12 3145	08/05/2011	14/05/2011	5	115	0.098	95.0	
1110 144	Saturday, 27/04/2011	12 2800	08/05/2011	14/05/2011	5	115	0.088	95.0	
1110 145	Sunday, 28/04/2011	12 3300	08/05/2011	14/05/2011	5	115	0.083	88.0	
1110 146	Monday, 29/04/2011	12 3145	08/05/2011	14/05/2011	5	115	0.088	95.0	
1110 147	Tuesday, 30/04/2011	12 2800	08/05/2011	14/05/2011	5	115	0.088	95.0	
1110 148	Wednesday, 1/05/2011	12 3300	08/05/2011	14/05/2011	5	115	0.083	88.0	
1110 149	Thursday, 2/05/2011	12 3732	08/05/2011	14/05/2011	5	115	0.114	81.0	
1110 150	Friday, 3/05/2011	12 0549	08/05/2011	14/05/2011	5	115	0.117	88.0	
1110 151	Saturday, 4/05/2011	11 5549	08/05/2011	14/05/2011	5	115	0.117	88.0	
1110 152	Sunday, 5/05/2011	12 2830	08/05/2011	14/05/2011	5	115	0.083	81.0	
1110 153	Monday, 6/05/2011	12 5400	08/05/2011	14/05/2011	5	115	0.086	91.0	
1110 154	Tuesday, 7/05/2011	12 5200	08/05/2011	14/05/2011	5	115	0.078	91.5	
1110 155	Wednesday, 8/05/2011	12 0733	08/05/2011	14/05/2011	5	115	0.097	81.0	
1110 156	Thursday, 9/05/2011	12 1200	08/05/2011	14/05/2011	5	115	0.098	100.0	
1110 157	Friday, 10/05/2011	12 2749	08/05/2011	14/05/2011	5	115	0.108	88.0	
1110 158	Saturday, 11/05/2011	12 4000	08/05/2011	14/05/2011	5	115	0.083	81.0	
MAY									
1110 159	Thursday, 2/05/2011	12 3611	07/06/2011	14/06/2011	5	115	0.102	88.0	
1110 160	Friday, 3/05/2011	12 3700	07/06/2011	14/06/2011	5	115	0.102	88.0	
1110 161	Saturday, 4/05/2011	12 4646	07/06/2011	14/06/2011	5	115	0.097	88.0	
1110 162	Sunday, 5/05/2011	12 4140	07/06/2011	14/06/2011	5	115	0.083	81.0	
1110 163	Monday, 6/05/2011	12 4140	07/06/2011	14/06/2011	5	115	0.083	81.0	
1110 164	Tuesday, 7/05/2011	12 2900	07/06/2011	14/06/2011	5	115	0.083	88.0	
1110 165	Wednesday, 8/05/2011	12 3311	07/06/2011	14/06/2011	5	115	0.098	100.0	
1110 166	Thursday, 9/05/2011	12 3845	07/06/2011	14/06/2011	5	115	0.098	88.0	
1110 167	Friday, 10/05/2011	12 4400	07/06/2011	14/06/2011	5	115	0.097	88.0	
1110 168	Saturday, 11/05/2011	12 4800	07/06/2011	14/06/2011	5	115	0.100	88.0	
1110 169	Sunday, 12/05/2011	12 4920	07/06/2011	14/06/2011	5	115	0.094	88.0	
1110 170	Monday, 13/05/2011	12 3054	07/06/2011	14/06/2011	5	115	0.090	88.0	
1110 171	Tuesday, 14/05/2011	12 3611	07/06/2011	14/06/2011	5	115	0.090	88.0	
1110 172	Wednesday, 15/05/2011	12 3826	07/06/2011	14/06/2011	5	115	0.081	81.0	
1110 173	Thursday, 16/05/2011	12 3820	07/06/2011	14/06/2011	5	115	0.119	88.0	
1110 174	Friday, 17/05/2011	12 3806	07/06/2011	14/06/2011	5	115	0.086	88.0	
1110 175	Saturday, 18/05/2011	12 3311	07/06/2011	14/06/2011	5	115	0.100	88.0	
1110 176	Sunday, 19/05/2011	12 3746	07/06/2011	14/06/2011	5	115	0.103	88.0	
1110 177	Monday, 20/05/2011	12 4711	07/06/2011	14/06/2011	5	115	0.087	88.0	
1110 178	Tuesday, 21/05/2011	12 3036	07/06/2011	14/06/2011	5	115	0.098	95.0	
1110 179	Wednesday, 22/05/2011	12 2600	07/06/2011	14/06/2011	5	115	0.100	95.0	
1110 180	Thursday, 23/05/2011	12 2810	07/06/2011	14/06/2011	5	115	0.100	95.0	
1110 181	Friday, 24/05/2011	12 2836	07/06/2011	14/06/2011	5	115	0.098	91.5	
1110 182	Saturday, 25/05/2011	12 2308	07/06/2011	14/06/2011	5	115	0.098	91.5	
1110 183	Sunday, 26/05/2011	12 3422	07/06/2011	14/06/2011	5	115	0.096	101.0	
1110 184	Monday, 27/05/2011	12 3500	07/06/2011	14/06/2011	5	115	0.102	100.0	
1110 185	Tuesday, 28/05/2011	12 3506	07/06/2011	14/06/2011	5	115	0.097	100.0	
1110 186	Wednesday, 29/05/2011	12 3506	07/06/2011	14/06/2011	5	115	0.097	100.0	
1110 187	Thursday, 30/05/2011	12 3019	07/06/2011	14/06/2011	5	115	0.091	94.0	
1110 188	Friday, 31/05/2011	12 3019	07/06/2011	14/06/2011	5	115	0.091	94.0	
1110 189	Saturday, 1/06/2011	12 4605	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 190	Sunday, 2/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 191	Monday, 3/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 192	Tuesday, 4/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 193	Wednesday, 5/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 194	Thursday, 6/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 195	Friday, 7/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 196	Saturday, 8/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 197	Sunday, 9/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 198	Monday, 10/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 199	Tuesday, 11/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 200	Wednesday, 12/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 201	Thursday, 13/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 202	Friday, 14/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 203	Saturday, 15/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 204	Sunday, 16/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 205	Monday, 17/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 206	Tuesday, 18/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 207	Wednesday, 19/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 208	Thursday, 20/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 209	Friday, 21/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 210	Saturday, 22/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 211	Sunday, 23/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 212	Monday, 24/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 213	Tuesday, 25/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 214	Wednesday, 26/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 215	Thursday, 27/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 216	Friday, 28/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 217	Saturday, 29/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 218	Sunday, 30/06/2011	12 2854	07/06/2011	14/06/2011	5	115	0.112	91.5	
1110 219	Monday, 3/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 220	Tuesday, 4/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 221	Wednesday, 5/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 222	Thursday, 6/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 223	Friday, 7/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 224	Saturday, 8/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 225	Sunday, 9/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 226	Monday, 10/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 227	Tuesday, 11/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 228	Wednesday, 12/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 229	Thursday, 13/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 230	Friday, 14/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 231	Saturday, 15/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 232	Sunday, 16/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 233	Monday, 17/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 234	Tuesday, 18/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 235	Wednesday, 19/07/2011	12 3649	08/07/2011	14/07/2011	5	115	0.090	88.0	
1110 236	Thursday, 20/07/2011	12 3649							

021 503 504	Monday, 26/02/13	12:46:40	06/09/2013	14/09/2013	5	115	0.130	88.0	
1000 115	Tuesday, 27/02/13	12:50:00	06/09/2013	14/09/2013	5	115	0.080	88.0	
010 6	Wednesday, 28/02/13	12:30:00	06/09/2013	14/09/2013	5	115	0.140	88.0	
021 505	Thursday, 29/02/13	12:29:00	06/09/2013	14/09/2013	5	115	0.100	95.9	
1074 80	Thursday, 29/02/13	12:39:30	06/09/2013	14/09/2013	5	115	0.110	101.9	
1074 81	Friday, 01/03/13	12:39:00	06/09/2013	14/09/2013	5	115	0.110	81.9	
109 11	Saturday, 02/03/13	12:34:00	06/09/2013	14/09/2013	5	115	0.080	81.9	
1083 111	Saturday, 02/03/13	12:36:00	06/09/2013	14/09/2013	5	115	0.080	88.0	
1083 112	Sunday, 03/03/13	12:36:00	06/09/2013	14/09/2013	5	115	0.080	88.0	
SEPTEMBER									
1083 100	Sunday, 1/09/2013	12:32:47	04/10/2013	14/10/2013	5	115	0.090	81.9	
021 513	Monday, 2/09/2013	12:31:00	04/10/2013	14/10/2013	5	115	0.080	91.5	
1083 110	Tuesday, 3/09/2013	12:40:10	04/10/2013	14/10/2013	5	115	1.130	94.0	Elevated vibration level has been investigated and was not blast related
1083 98	Tuesday, 3/09/2013	12:38:08	04/10/2013	14/10/2013	5	115	0.090	88.0	
021 509	Tuesday, 3/09/2013	12:31:00	04/10/2013	14/10/2013	5	115	0.090	88.0	
1074 81	Wednesday, 4/09/2013	12:40:00	04/10/2013	14/10/2013	5	115	0.080	88.0	
1065 543	Thursday, 5/09/2013	12:36:09	04/10/2013	14/10/2013	5	115	0.100	97.5	
021 511	Friday, 6/09/2013	12:51:04	04/10/2013	14/10/2013	5	115	0.080	88.0	
1083 105	Friday, 6/09/2013	12:07:09	04/10/2013	14/10/2013	5	115	0.080	88.0	
021 512	Saturday, 7/09/2013	12:30:00	04/10/2013	14/10/2013	5	115	0.080	98.8	
1074 80	Saturday, 7/09/2013	12:41:00	04/10/2013	14/10/2013	5	115	0.110	88.0	
021 515	Sunday, 8/09/2013	12:30:00	04/10/2013	14/10/2013	5	115	0.080	91.5	
1083 102	Sunday, 8/09/2013	12:40:24	04/10/2013	14/10/2013	5	115	0.080	97.5	
1083 130	Monday, 9/09/2013	12:48:08	04/10/2013	14/10/2013	5	115	0.080	95.5	
021 510	Tuesday, 10/09/2013	12:40:35	04/10/2013	14/10/2013	5	115	0.100	107.5	
1074 81	Tuesday, 10/09/2013	12:40:35	04/10/2013	14/10/2013	5	115	0.100	107.5	
1083 104	Tuesday, 10/09/2013	12:52:11	04/10/2013	14/10/2013	5	115	0.090	101.9	
1074 90	Thursday, 12/09/2013	12:33:00	04/10/2013	14/10/2013	5	115	0.080	81.9	
109 10	Thursday, 12/09/2013	12:33:48	04/10/2013	14/10/2013	5	115	0.100	95.5	
1085 542	Friday, 13/09/2013	12:24:34	04/10/2013	14/10/2013	5	115	0.080	94.0	
1074 80	Friday, 13/09/2013	12:09:44	04/10/2013	14/10/2013	5	115	0.080	91.5	
1083 116	Saturday, 14/09/2013	12:30:21	04/10/2013	14/10/2013	5	115	0.080	94.0	
1083 06	Sunday, 15/09/2013	12:29:42	04/10/2013	14/10/2013	5	115	0.090	81.9	
1083 07	Sunday, 15/09/2013	12:30:00	04/10/2013	14/10/2013	5	115	0.090	81.9	
1074 83	Monday, 16/09/2013	12:35:27	04/10/2013	14/10/2013	5	115	0.100	91.5	
1083 115	Monday, 16/09/2013	12:33:00	04/10/2013	14/10/2013	5	115	0.080	88.0	
021 511	Friday, 20/09/2013	12:24:03	04/10/2013	14/10/2013	5	115	0.120	109.2	
1083 117	Friday, 20/09/2013	12:40:04	04/10/2013	14/10/2013	5	115	0.110	118.8	
1083 119	Saturday, 21/09/2013	12:37:03	04/10/2013	14/10/2013	5	115	0.110	111.9	
1074 85	Saturday, 21/09/2013	12:37:03	04/10/2013	14/10/2013	5	115	0.110	98.8	
1085 545	Sunday, 22/09/2013	12:38:00	04/10/2013	14/10/2013	5	115	0.080	81.9	
1074 90	Wednesday, 24/09/2013	12:33:44	04/10/2013	14/10/2013	5	115	0.080	81.9	
1074 91	Wednesday, 24/09/2013	12:42:11	04/10/2013	14/10/2013	5	115	0.080	98.8	
109 10 15	Thursday, 26/09/2013	12:32:48	04/10/2013	14/10/2013	5	115	0.120	81.9	Airblast overpressure exceeded was caused by scaffold environmental factors
1074 92	Friday, 27/09/2013	12:35:57	04/10/2013	14/10/2013	5	115	0.210	88.0	
1085 545 (extra)	Friday, 27/09/2013	12:39:04	04/10/2013	14/10/2013	5	115	0.080	81.9	
1083 105	Friday, 27/09/2013	12:41:00	04/10/2013	14/10/2013	5	115	0.080	88.0	
021 510	Saturday, 29/09/2013	12:46:00	04/10/2013	14/10/2013	5	115	0.080	88.0	
1074 86a	Saturday, 29/09/2013	12:05:00	04/10/2013	14/10/2013	5	115	0.080	88.0	
1083 113	Monday, 30/09/2013	12:36:00	04/10/2013	14/10/2013	5	115	0.080	97.5	
1083 106	Monday, 30/09/2013	12:09:44	04/10/2013	14/10/2013	5	115	0.080	109.0	
OCTOBER									
021 510	Tuesday, 1/10/13	12:38:00	06/11/2013	14/11/2013	5	115	0.090	101.9	
1083 114	Tuesday, 1/10/13	12:46:00	06/11/2013	14/11/2013	5	115	0.090	102.9	
021 510	Thursday, 3/10/13	12:32:50	06/11/2013	14/11/2013	5	115	0.110	109.5	
1083 107	Thursday, 3/10/13	12:58:15	06/11/2013	14/11/2013	5	115	0.100	123.9	
021 510	Saturday, 5/10/13	12:18:00	06/11/2013	14/11/2013	5	115	0.070	81.9	
1083 118	Saturday, 5/10/13	12:21:00	06/11/2013	14/11/2013	5	115	0.080	81.9	
021 510	Sunday, 6/10/13	12:33:00	06/11/2013	14/11/2013	5	115	0.080	81.9	
1085 70	Sunday, 6/10/13	12:52:00	06/11/2013	14/11/2013	5	115	0.090	104.2	
109 10 17	Monday, 7/10/13	12:28:00	06/11/2013	14/11/2013	5	115	0.080	91.5	
021 510	Wednesday, 9/10/13	12:30:00	06/11/2013	14/11/2013	5	115	0.090	104.2	
1074 86	Wednesday, 9/10/13	12:30:50	06/11/2013	14/11/2013	5	115	0.090	118.0	Airblast overpressure exceeded was caused by scaffold environmental factors
1074 80	Friday, 11/10/13	12:33:48	06/11/2013	14/11/2013	5	115	0.090	109.2	
1085 546	Saturday, 12/10/13	12:30:22	06/11/2013	14/11/2013	5	115	0.120	91.5	
021 510	Saturday, 12/10/13	12:32:18	06/11/2013	14/11/2013	5	115	0.090	88.0	
1074 87	Sunday, 13/10/13	12:34:06	06/11/2013	14/11/2013	5	115	0.110	104.2	
021 510	Sunday, 13/10/13	12:40:09	06/11/2013	14/11/2013	5	115	0.110	111.9	
021 510	Wednesday, 16/10/13	12:29:26	06/11/2013	14/11/2013	5	115	0.110	98.8	
1085 547	Wednesday, 16/10/13	12:29:26	06/11/2013	14/11/2013	5	115	0.090	107.2	Airblast overpressure exceeded was caused by scaffold environmental factors
021 510	Friday, 18/10/13	12:43:50	06/11/2013	14/11/2013	5	115	0.120	91.5	
1074 88b	Friday, 18/10/13	12:02:00	06/11/2013	14/11/2013	5	115	0.090	91.5	
1085 548	Saturday, 19/10/13	12:56:16	06/11/2013	14/11/2013	5	115	0.130	91.5	
1085 546	Saturday, 19/10/13	13:02:14	06/11/2013	14/11/2013	5	115	0.130	96.9	
1074 89	Sunday, 20/10/13	12:31:18	06/11/2013	14/11/2013	5	115	0.090	91.5	
1074 93	Sunday, 20/10/13	12:31:18	06/11/2013	14/11/2013	5	115	0.090	94.0	
021 510	Monday, 21/10/13	12:33:02	06/11/2013	14/11/2013	5	115	0.090	97.5	
1074 102	Tuesday, 22/10/13	12:20:51	06/11/2013	14/11/2013	5	115	0.120	109.2	
1085 547	Tuesday, 22/10/13	12:20:51	06/11/2013	14/11/2013	5	115	0.120	109.2	
021 510	Thursday, 24/10/13	12:38:03	06/11/2013	14/11/2013	5	115	0.140	98.8	
1065 539	Friday, 25/10/13	12:28:00	06/11/2013	14/11/2013	5	115	0.130	97.5	
1085 81	Friday, 25/10/13	12:31:00	06/11/2013	14/11/2013	5	115	0.110	88.0	
1085 82	Friday, 25/10/13	12:24:03	06/11/2013	14/11/2013	5	115	0.090	88.0	
1085 82	Sunday, 27/10/13	12:27:18	06/11/2013	14/11/2013	5	115	0.090	88.0	
1074 84	Sunday, 27/10/13	12:29:16	06/11/2013	14/11/2013	5	115	0.090	88.0	
1074 101	Monday, 28/10/13	12:11:55	06/11/2013	14/11/2013	5	115	0.090	101.9	
1074 101	Monday, 28/10/13	12:13:25	06/11/2013	14/11/2013	5	115	0.100	101.9	
1085 71	Thursday, 31/10/13	12:32:51	06/11/2013	14/11/2013	5	115	0.100	94.0	
NOVEMBER									
1074 110	Friday, 1/11/2013	12:02:53	06/12/2013	14/12/2013	5	115	0.100	88.0	
021 510	Friday, 1/11/2013	12:05:49	06/12/2013	14/12/2013	5	115	0.130	88.0	
021 510	Monday, 4/11/2013	12:40:00	06/12/2013	14/12/2013	5	115	0.100	104.0	
1074 86	Monday, 4/11/2013	12:44:29	06/12/2013	14/12/2013	5	115	0.090	91.5	
021 510	Monday, 4/11/2013	12:34:41	06/12/2013	14/12/2013	5	115	0.090	91.5	
1087 547	Monday, 4/11/2013	12:40:17	06/12/2013	14/12/2013	5	115	0.130	101.9	
1087 548	Tuesday, 5/11/2013	12:35:35	06/12/2013	14/12/2013	5	115	0.170	88.0	
1085 44	Tuesday, 5/11/2013	12:35:46	06/12/2013	14/12/2013	5	115	0.170	88.0	
1074 103	Wednesday, 6/11/2013	12:35:46	06/12/2013	14/12/2013	5	115	0.170	88.0	
1085 83	Thursday, 7/11/2013	12:26:53	06/12/2013	14/12/2013	5	115	0.120	98.8	
021 510	Thursday, 7/11/2013	12:35:00	06/12/2013	14/12/2013	5	115	0.090	88.0	
1085 75	Saturday, 9/11/2013	12:27:11	06/12/2013	14/12/2013	5	115	0.090	97.5	
021 510	Sunday, 10/11/2013	12:27:00	06/12/2013	14/12/2013	5	115	0.110	88.0	
1074 86	Sunday, 10/11/2013	12:45:53	06/12/2013	14/12/2013	5	115	0.110	88.0	
1087 549	Monday, 11/11/2013	12:27:45	06/12/2013	14/12/2013	5	115	0.100	104.2	
021 510	Tuesday, 12/11/2013	12:40:00	06/12/2013	14/12/2013	5	115	0.090	101.9	
021 510	Tuesday, 12/11/2013	12:35:41	06/12/2013	14/12/2013	5	115	0.120	88.0	
1085 44	Wednesday, 13/11/2013	12:33:15	06/12/2013	14/12/2013	5	115	0.170	105.5	
1085 44	Wednesday, 13/11/2013	12:34:41	06/12/2013	14/12/2013	5	115	0.170	105.5	
021 510	Thursday, 14/11/2013	12:35:36	06/12/2013	14/12/2013	5	115	0.090	95.9	
1085 549	Thursday, 14/11/2013	12:37:14	06/12/2013	14/12/2013	5	115	0.090	88.0	
021 507	Saturday, 16/11/2013	12:32:23	06/12/2013	14/12/2013	5	115	0.130		

Ambient Noise

EPL No: 11912 <http://www.environment.nsw.gov.au/prpoeoapp/>
 Licensee: Barrick (Cowal) Ltd
 Address: PO Box 210 West Wyalong NSW 2671

February 2013 Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15minute)} - dBA		Noise Criteria LA _{eq(15minute)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
1	4/2/13-7/2/13	19/04/2013	14/08/2013	<23	<22	44	
2	4/2/13-7/2/13	19/04/2013	14/08/2013	<22	<22	39	
3	4/2/13-7/2/13	19/04/2013	14/08/2013	<29	<24	41	
4	4/2/13-7/2/13	19/04/2013	14/08/2013	22	24	41	
5	4/2/13-7/2/13	19/04/2013	14/08/2013	<23	<23	38	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15minute)} - dBA		Noise Criteria LA _{eq(15minute)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
1	4/2/13-7/2/13	19/04/2013	14/08/2013	19	<19	44	
2	4/2/13-7/2/13	19/04/2013	14/08/2013	<23	<37	39	
3	4/2/13-7/2/13	19/04/2013	14/08/2013	24	27	41	
4	4/2/13-7/2/13	19/04/2013	14/08/2013	22	23	41	
5	4/2/13-7/2/13	19/04/2013	14/08/2013	<34	<33	38	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15minute)} - dBA		Noise Criteria LA _{eq(15minute)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
1	4/2/13-7/2/13	19/04/2013	14/08/2013	<15	<12	44	
2	4/2/13-7/2/13	19/04/2013	14/08/2013	20	23	39	
3	4/2/13-7/2/13	19/04/2013	14/08/2013	24	23	41	
4	4/2/13-7/2/13	19/04/2013	14/08/2013	<25	<25	41	
5	4/2/13-7/2/13	19/04/2013	14/08/2013	16	19	38	

August 2013 Monitoring

Daytime Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15minute)} - dBA		Noise Criteria LA _{eq(15minute)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
1	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	44	
2	14/8/13-17/8/13	18/09/2013	14/10/2013	29	30	39	
3	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	41	
4	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	41	
5	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	38	

Evening Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15minute)} - dBA		Noise Criteria LA _{eq(15minute)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
1	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	26	44	
2	14/8/13-17/8/13	18/09/2013	14/10/2013	34	34	39	
3	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	41	
4	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	41	
5	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	38	

Night time Mine Operating Intrusive Noise Levels (dBA re 20 µPa)				Mine Contributed LA _{eq(15minute)} - dBA		Noise Criteria LA _{eq(15minute)} - dBA	Comments
Location	Date Sampled	Date Obtained	Date Published	Survey 1	Survey 2		
1	14/8/13-17/8/13	18/09/2013	14/10/2013	29	28	44	
2	14/8/13-17/8/13	18/09/2013	14/10/2013	35	33	39	
3	14/8/13-17/8/13	18/09/2013	14/10/2013	30	32	41	
4	14/8/13-17/8/13	18/09/2013	14/10/2013	28	28	41	
5	14/8/13-17/8/13	18/09/2013	14/10/2013	N/A	N/A	38	

N/A - Mine noise emission not discernible

Location Description

- 1 - Private residence to the north of ML1535 boundary
- 2 - Private residence to the south-east of ML1535 boundary
- 3 - Private residence to the south-west of ML1535 boundary
- 4 - Private residence to the west of ML1535 boundary
- 5 - Private residence to the north-east of ML1535 boundary

Cyanide

EPL No: 11912 <http://www.environment.nsw.gov.au/pppocaps/>
 Licensee: Barrick (Cowal) Ltd
 Address: PO Box 210 West Wyalong NSW 2671

Monitoring Point: 48

Water quality monitoring, automated sampler located at the processing plant

Frequency	Month	No Sampled during Month	Total Cyanide (mg/L)				Comments
			Minimum	Mean	Median	Maximum	
Weekly	January	3	12.01	14.86	15.10	17.48	Weekly sample was not collected on the 13/1/13 as there was no potable water supply to the on site laboratory. Potable water supply was rectified on the 14/1/13
Weekly	February	4	5.06	12.05	11.71	19.70	
Weekly	March	5	12.08	15.03	15.74	16.73	
Weekly	April	3	13.39	16.35	15.27	20.40	
Weekly	May	4	15.69	19.00	18.47	23.36	
Weekly	June	4	8.52	13.44	13.14	18.95	
Weekly	July	4	10.61	13.37	11.85	19.17	
Weekly	August	4	6.86	15.02	16.28	20.66	
Weekly	September	4	8.31	11.73	12.35	13.92	
Weekly	October	4	12.79	14.49	14.83	15.50	
Weekly	November	4	11.25	14.48	15.43	15.80	
Weekly	December	5	9.59	22.17	24.07	28.11	

Frequency	Month	No Sampled during Month	WAD Cyanide (mg/L)		Concentration Limits		Comments
			Minimum	Maximum	90th Percentile	100th Percentile	
Twice daily	January	58	1.11	13.74	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 8/1/13 (morning); 15/1/13 (morning & afternoon); 16/1/13 (morning)
Twice daily	February	47	0.10	13.40	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 11/2/13 (morning) until 15/2/13 (morning) inclusive
Twice daily	March	60	2.97	14.28	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 12/3/13 (morning) and 12/3/13 (afternoon)
Twice daily	April	59	1.38	13.21	20ppm	30ppm	On the following date, samples were not collected due to mill shutdown: 9/4/13 (afternoon)
Twice daily	May	60	3.42	13.00	20ppm	30ppm	On the following date, samples were not collected due to mill shutdown: 14/5/13 (morning & afternoon)
Twice daily	June	58	1.72	16.99	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 12/6/13 (morning) and 21/6/13 (afternoon)
Twice daily	July	53	0.98	13.72	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 16/7/13 (morning) until 20/7/13 (morning) inclusive
Twice daily	August	61	1.77	14.72	20ppm	30ppm	On the following date, samples were not collected due to mill shutdown: 5/8/13 (afternoon)
Twice daily	September	59	1.08	14.86	20ppm	30ppm	
Twice daily	October	59	0.71	11.34	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 15/10/13 (morning & afternoon) and 16/10/13 (morning)
Twice daily	November	58	1.96	17.39	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 12/11/13 (morning & afternoon)
Twice daily	December	54	1.69	11.64	20ppm	30ppm	On the following dates, samples were not collected due to mill shutdown: 9/12/13 (afternoon); 10/12/13 (morning & afternoon); 11/12/13 (morning & afternoon); 12/12/13 (morning & afternoon); 13/12/13 (morning)

EPL Exceedances

Monitorine Point: BM03

Blast monitoring, Airblast overpressure and ground vibration peak particle velocity recorded at private residence to the north of ML1533 boundary

Blast Number	Blast Day/Date	Blast Time	Date Obtained	Date Published	Compliance Limits		BM03 at Blast Time		EPL Condition	Comments
					Ground Vibration (mm/s)	Airblast Overpressure (dB(L))	Ground Vibration (mm/s)	Airblast Overpressure (dB(L))		
1092_126	Sunday, 7/07/2013	12:33:08	09/08/2013	14/08/2013	1	95	0.090	95.9	1.7.2 The overpressure level from blasting operations at the premises of residence of privately owned land must not exceed 95dB(L) Peak or night or on Sundays and public holidays (24 hours) for more than five percent of the total number of blasts over a period of 12 months.	Airblast overpressure exceeded the 95 dB(L) limit for blasting on a Sunday at BM03. Cowal remains in compliance with the 5% exceedance allowable within the 12 month moving window (currently 0.22% exceedance).