



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29173&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: January 2013

Publication Date: 15th February 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Solid Particles	g/m ² /month	Continuous	1	22/1/13	30/1/13	-	-	-	1.4
2	Solid Particles	g/m ² /month	Continuous	1	22/1/13	30/1/13	-	-	-	1.5
3	Solid Particles	g/m ² /month	Continuous	1	22/1/13	30/1/13	-	-	-	1.7
4	Solid Particles	g/m ² /month	Continuous	1	22/1/13	30/1/13	-	-	-	1.9
5	Solid Particles	g/m ² /month	Continuous	1	22/1/13	30/1/13	-	-	-	25.8
	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/2/13	8.8	20.5	16.7	40
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

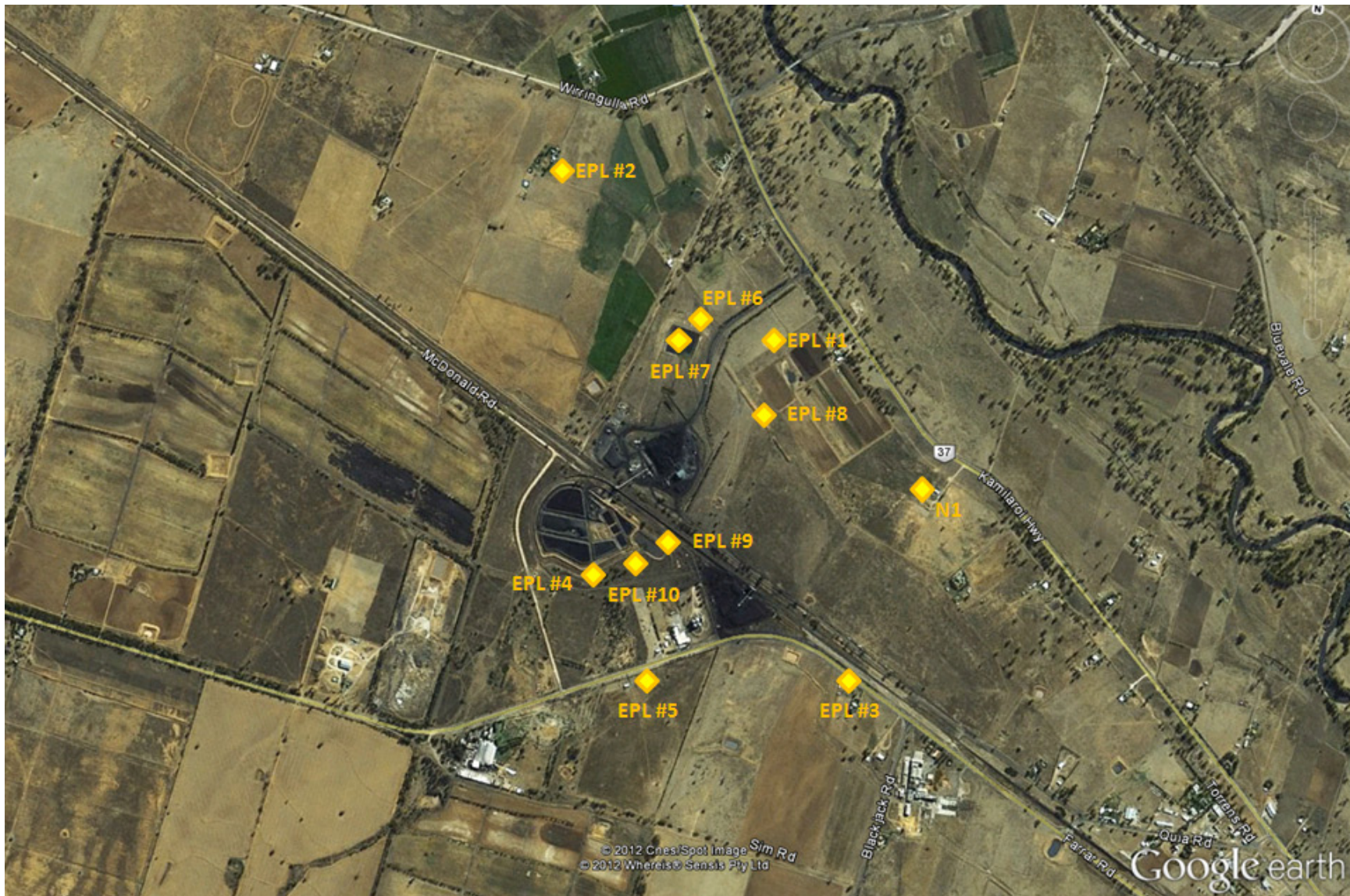
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/°)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1								No monitoring this month	
								No monitoring this month	
								No monitoring this month	
								No monitoring this month	



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

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Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: February 2013

Publication Date: 11th March 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
1	Solid Particles	g/m ² /month	Continuous	1	21/2/13	4/3/13	-	-	-	1.2
2	Solid Particles	g/m ² /month	Continuous	1	21/2/13	4/3/13	-	-	-	6.8
3	Solid Particles	g/m ² /month	Continuous	1	21/2/13	4/3/13	-	-	-	1.6
4	Solid Particles	g/m ² /month	Continuous	1	21/2/13	4/3/13	-	-	-	1.2
5	Solid Particles	g/m ² /month	Continuous	1	21/2/13	4/3/13	-	-	-	*
	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/3/13	<0.1	7.34	6.6	12.7
6	Conductivity	ms/cm	Each overflow event	1	-	-	-	-	-	1030
	Oil and Grease	mg/L		1	-	-	-	-	-	<5
	Total Organic Carbon	mg/L		1	-	-	-	-	-	18
	Total Suspended Solids	mg/L		1	-	-	-	-	-	101
	pH	pH		1	-	-	-	-	-	7.7
7	Conductivity	ms/cm	Quarterly	1	-	-	-	-	-	1460
	Oil and Grease	mg/L		1	-	-	-	-	-	<5
	Total Organic Carbon	mg/L		1	-	-	-	-	-	7
	Total Suspended Solids	mg/L		1	-	-	-	-	-	14
	pH	pH		1	-	-	-	-	-	8.07

* Sample bottle broken on arrival to laboratory



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

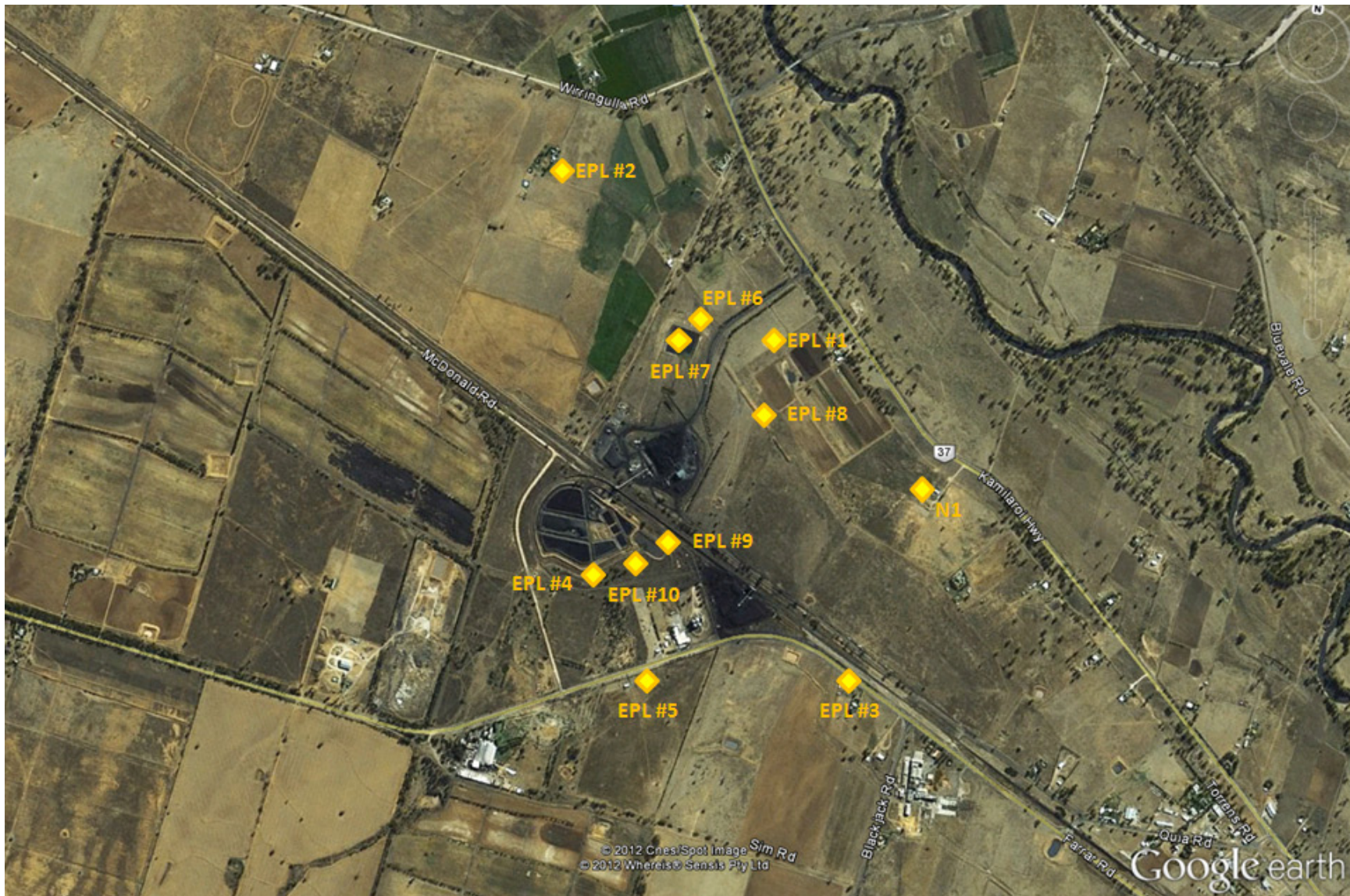
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/°)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1								No monitoring this month	
								No monitoring this month	
								No monitoring this month	
								No monitoring this month	



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Figure 1 – EPL 3637 Monitoring Locations





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Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: March 2013

Publication Date: 15th April 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	22/3/13	5/4/13	-	-	-	0.6
5	Solid Particles	g/m ² /month	Continuous	1	22/3/13	5/4/13	-	-	-	0.2
	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/4/13	<0.1	17.63	18.15	24.8
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/4/13	8.2	24.68	25.6	34.8
12	PM ₁₀	µg/m ³	Every 6 days	4	Various	10/4/13	14	20.45	20.85	26.1
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	1	6/3/13	14/3/13	-	-	-	<0.01
	Bicarbonate	mg/L		1	6/3/13	14/3/13	-	-	-	1370
	Calcium	mg/L		1	6/3/13	14/3/13	-	-	-	13
	Chloride	mg/L		1	6/3/13	14/3/13	-	-	-	1160
	Conductivity	µs/cm		1	6/3/13	14/3/13	-	-	-	7040
	Lead	mg/L		1	6/3/13	14/3/13	-	-	-	0.005
	Magnesium	mg/L		1	6/3/13	14/3/13	-	-	-	108
	Nitrate	mg/L		1	6/3/13	14/3/13	-	-	-	0.40
	Potassium	mg/L		1	6/3/13	14/3/13	-	-	-	24
	Sodium	mg/L		1	6/3/13	14/3/13	-	-	-	1570
	Standing Water Level	m		1	6/3/13	14/3/13	-	-	-	5.54
	Sulphate	mg/L		1	6/3/13	14/3/13	-	-	-	677
	pH	pH		1	6/3/13	14/3/13	-	-	-	8.25
9	Ammonia	mg/L	Quarterly	1	6/3/13	14/3/13	-	-	-	0.01
	Bicarbonate	mg/L		1	6/3/13	14/3/13	-	-	-	821
	Calcium	mg/L		1	6/3/13	14/3/13	-	-	-	193
	Chloride	mg/L		1	6/3/13	14/3/13	-	-	-	1140
	Conductivity	µs/cm		1	6/3/13	14/3/13	-	-	-	6040
	Lead	mg/L		1	6/3/13	14/3/13	-	-	-	0.002
	Magnesium	mg/L		1	6/3/13	14/3/13	-	-	-	245
	Nitrate	mg/L		1	6/3/13	14/3/13	-	-	-	0.23
	Potassium	mg/L		1	6/3/13	14/3/13	-	-	-	133
	Sodium	mg/L		1	6/3/13	14/3/13	-	-	-	772
	Standing Water Level	m		1	6/3/13	14/3/13	-	-	-	0.74
	Sulphate	mg/L		1	6/3/13	14/3/13	-	-	-	799
	pH	pH		1	6/3/13	14/3/13	-	-	-	7.39
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

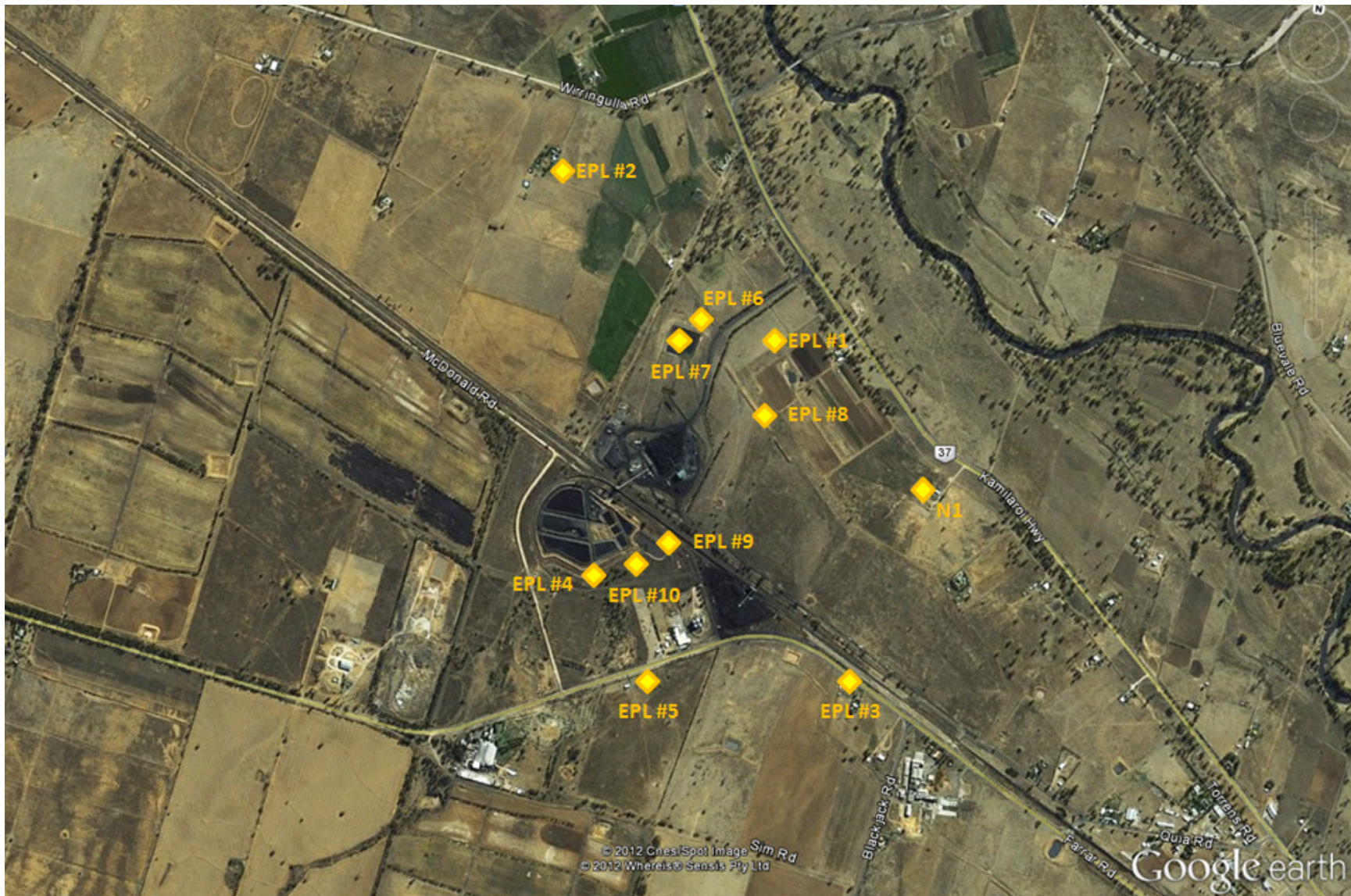
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/°)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1								No monitoring this month	
								No monitoring this month	
								No monitoring this month	
								No monitoring this month	



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: April 2013

Publication Date: 23rd May 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	22/4/13	1/5/13	-	-	-	1.4
5	Solid Particles	g/m ² /month	Continuous	1	22/4/13	1/5/13	-	-	-	15.9
	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/5/13	9.4	17.82	15.1	29.8
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/5/13	11.1	23.82	20.8	36.8
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/5/13	10.1	26.94	23.1	52.8
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	1	-	-	-	-	-	0.13



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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		1	-	-	-	-	-	643
	Calcium	mg/L		1	-	-	-	-	-	214
	Chloride	mg/L		1	-	-	-	-	-	1630
	Conductivity	µs/cm		1	-	-	-	-	-	5950
	Lead	mg/L		1	-	-	-	-	-	0.003
	Magnesium	mg/L		1	-	-	-	-	-	234
	Nitrate	mg/L		1	-	-	-	-	-	12.6
	Potassium	mg/L		1	-	-	-	-	-	80
	Sodium	mg/L		1	-	-	-	-	-	805
	Standing Water Level	m		1	-	-	-	-	-	0.49
	Sulphate	mg/L		1	-	-	-	-	-	259
	pH	pH		1	-	-	-	-	-	7.26

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

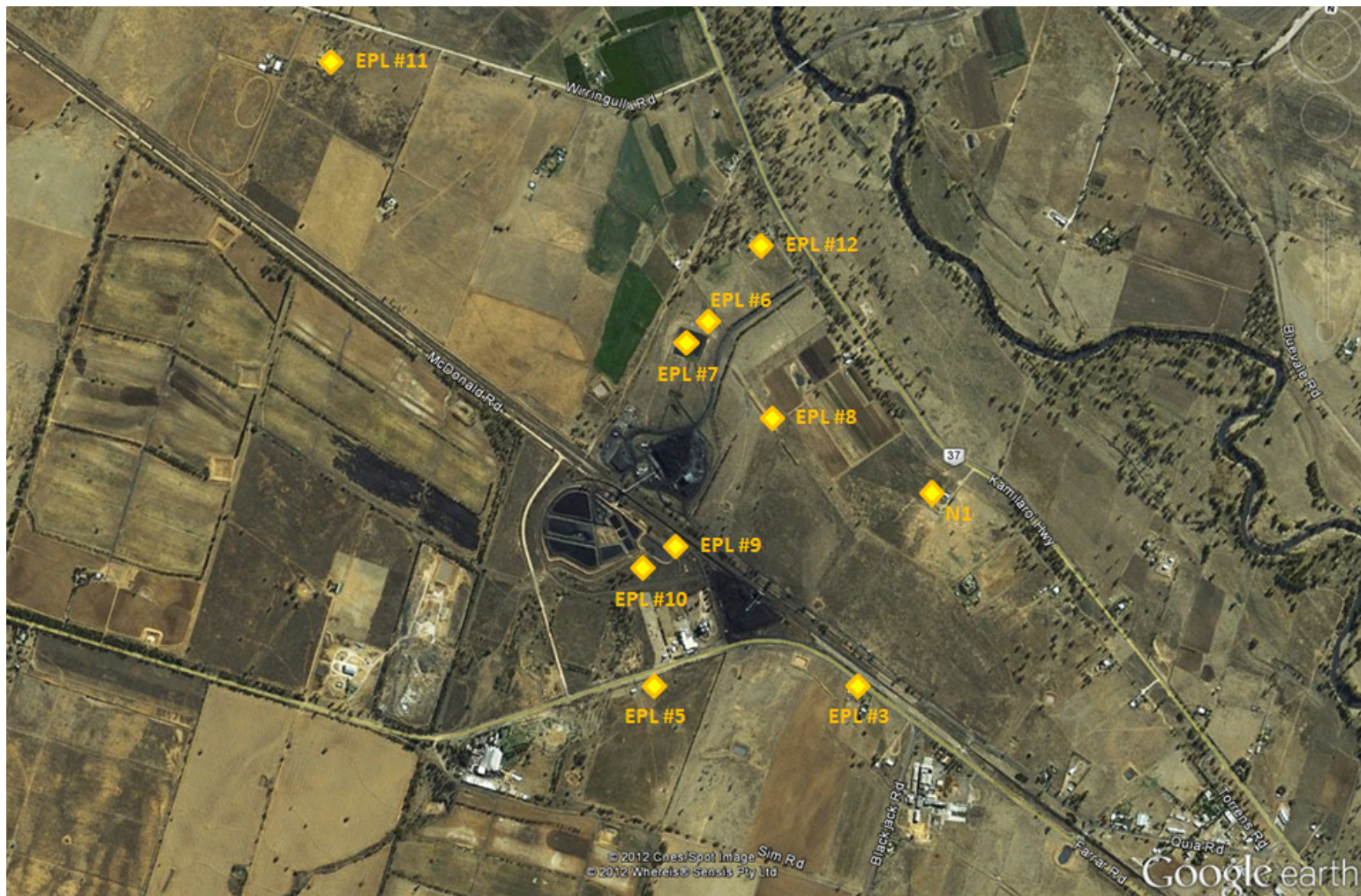
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	19/4/13	1:57pm	15 minutes		32	35	2.5m/s SW	Traffic (43), plane (35), CPP (32)	No
	19/4/13	7:05pm	15 minutes		35	35	1.0m/s S	Traffic (43), CPP (35), insects (33)	No
	20/4/13	12:00am	15 minutes		35	35	0.5m/s SW	Traffic (43), CPP (35), insects (33)	No
	20/4/13	12:00am	15 minutes	47		45	0.5m/s SW		Yes



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: May 2013

Publication Date: 21st June 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	20/5/13	29/5/13	-	-	-	1.5
5	Solid Particles	g/m ² /month	Continuous	1	20/5/13	29/5/13	-	-	-	30.2
	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/6/13	6.0	13.5	11	21.8
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/6/13	6.4	26.3	20.4	51.4
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/6/13	23.9	48.9	29.5	95.8
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	1	1/5/13	8/5/13	-	-	-	2120
	Oil and Grease	mg/L		1	1/5/13	8/5/13	-	-	-	<5
	Total Organic Carbon	mg/L		1	1/5/13	8/5/13	-	-	-	7
	Total Suspended Solids	mg/L		1	1/5/13	8/5/13	-	-	-	27
	pH	pH		1	1/5/13	8/5/13	-	-	-	8.55



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

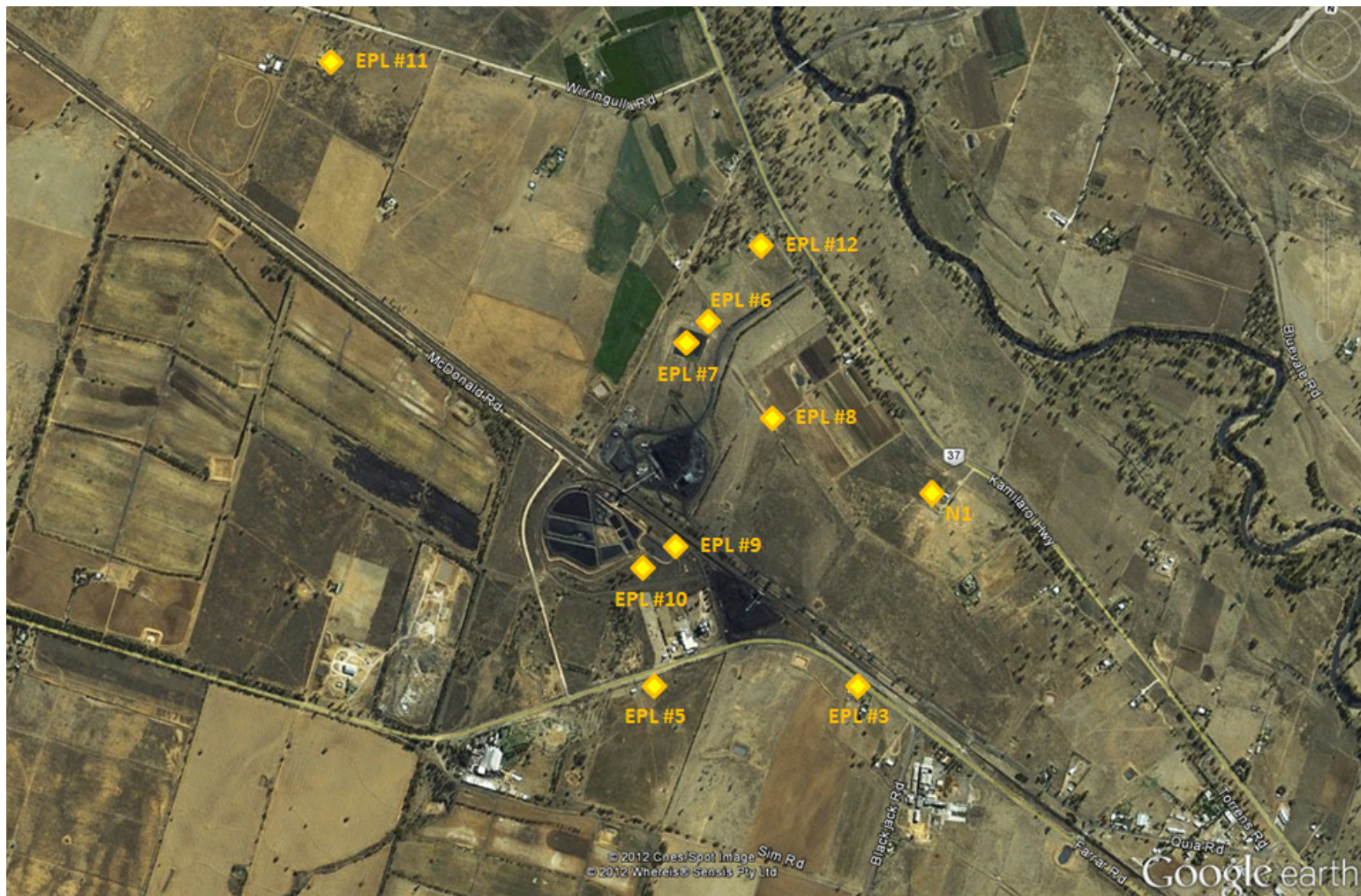
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1						35			No monitoring this month
						35			
						35			
						45			



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: June 2013

Publication Date: 15th July 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	19/6/13	28/6/13	-	-	-	0.6
5	Solid Particles	g/m ² /month	Continuous	1	19/6/13	28/6/13	-	-	-	20.2
	PM ₁₀	µg/m ³	Every 6 days	5	Various	9/7/13	<0.1	4.0	3.9	6.7
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	9/7/13	0.4	6.9	5.4	20.9
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	9/7/13	0.5	10.1	13.0	21.3
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	1	19/6/13	27/6/13	-	-	-	<0.01
	Bicarbonate	mg/L		1	19/6/13	27/6/13	-	-	-	1220
	Calcium	mg/L		1	19/6/13	27/6/13	-	-	-	29
	Chloride	mg/L		1	19/6/13	27/6/13	-	-	-	1110
	Conductivity	µs/cm		1	19/6/13	27/6/13	-	-	-	7180
	Lead	mg/L		1	19/6/13	27/6/13	-	-	-	0.002
	Magnesium	mg/L		1	19/6/13	27/6/13	-	-	-	102
	Nitrate	mg/L		1	19/6/13	27/6/13	-	-	-	0.38
	Potassium	mg/L		1	19/6/13	27/6/13	-	-	-	22
	Sodium	mg/L		1	19/6/13	27/6/13	-	-	-	1480
	Standing Water Level	m		1	19/6/13	27/6/13	-	-	-	5.7
	Sulphate	mg/L		1	19/6/13	27/6/13	-	-	-	620
	pH	pH		1	19/6/13	27/6/13	-	-	-	8.11
9	Ammonia	mg/L	Quarterly	1	19/6/13	27/6/13	-	-	-	0.02
	Bicarbonate	mg/L		1	19/6/13	27/6/13	-	-	-	758
	Calcium	mg/L		1	19/6/13	27/6/13	-	-	-	226
	Chloride	mg/L		1	19/6/13	27/6/13	-	-	-	973
	Conductivity	µs/cm		1	19/6/13	27/6/13	-	-	-	6050
	Lead	mg/L		1	19/6/13	27/6/13	-	-	-	0.004
	Magnesium	mg/L		1	19/6/13	27/6/13	-	-	-	221
	Nitrate	mg/L		1	19/6/13	27/6/13	-	-	-	0.14
	Potassium	mg/L		1	19/6/13	27/6/13	-	-	-	112
	Sodium	mg/L		1	19/6/13	27/6/13	-	-	-	696
	Standing Water Level	m		1	19/6/13	27/6/13	-	-	-	0.74
	Sulphate	mg/L		1	19/6/13	27/6/13	-	-	-	757
	pH	pH		1	19/6/13	27/6/13	-	-	-	7.54
10	Ammonia	mg/L	Quarterly	1	19/6/13	27/6/13	-	-	-	0.03



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		1	19/6/13	27/6/13	-	-	-	637
	Calcium	mg/L		1	19/6/13	27/6/13	-	-	-	169
	Chloride	mg/L		1	19/6/13	27/6/13	-	-	-	1200
	Conductivity	µs/cm		1	19/6/13	27/6/13	-	-	-	5880
	Lead	mg/L		1	19/6/13	27/6/13	-	-	-	0.003
	Magnesium	mg/L		1	19/6/13	27/6/13	-	-	-	208
	Nitrate	mg/L		1	19/6/13	27/6/13	-	-	-	13.4
	Potassium	mg/L		1	19/6/13	27/6/13	-	-	-	59
	Sodium	mg/L		1	19/6/13	27/6/13	-	-	-	697
	Standing Water Level	m		1	19/6/13	27/6/13	-	-	-	0.59
	Sulphate	mg/L		1	19/6/13	27/6/13	-	-	-	227
	pH	pH		1	19/6/13	27/6/13	-	-	-	7.78

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

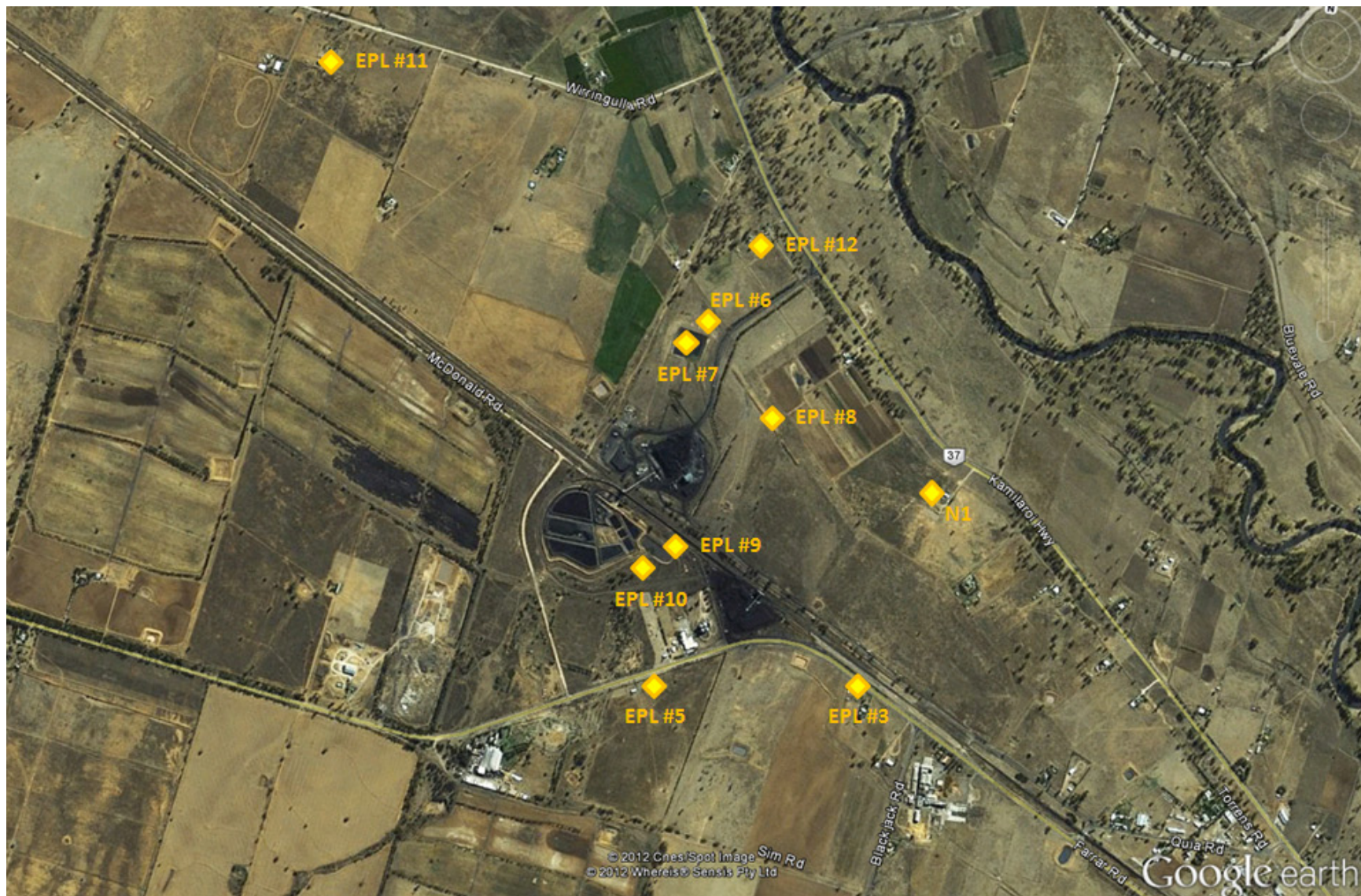
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1						38			No monitoring this month
						37			
						35			
						45			



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: July 2013

Publication Date: 22nd August 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	18/7/13	26/7/13	-	-	-	0.4
5	Solid Particles	g/m ² /month	Continuous	1	18/7/13	26/7/13	-	-	-	20.2
	PM ₁₀	µg/m ³	Every 6 days	5	Various	9/8/13	2.8	8.0	8.9	11.2
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	9/8/13	2.9	14.7	17.4	20.3
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	9/8/13	2.1	18.5	25.6	29.2
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

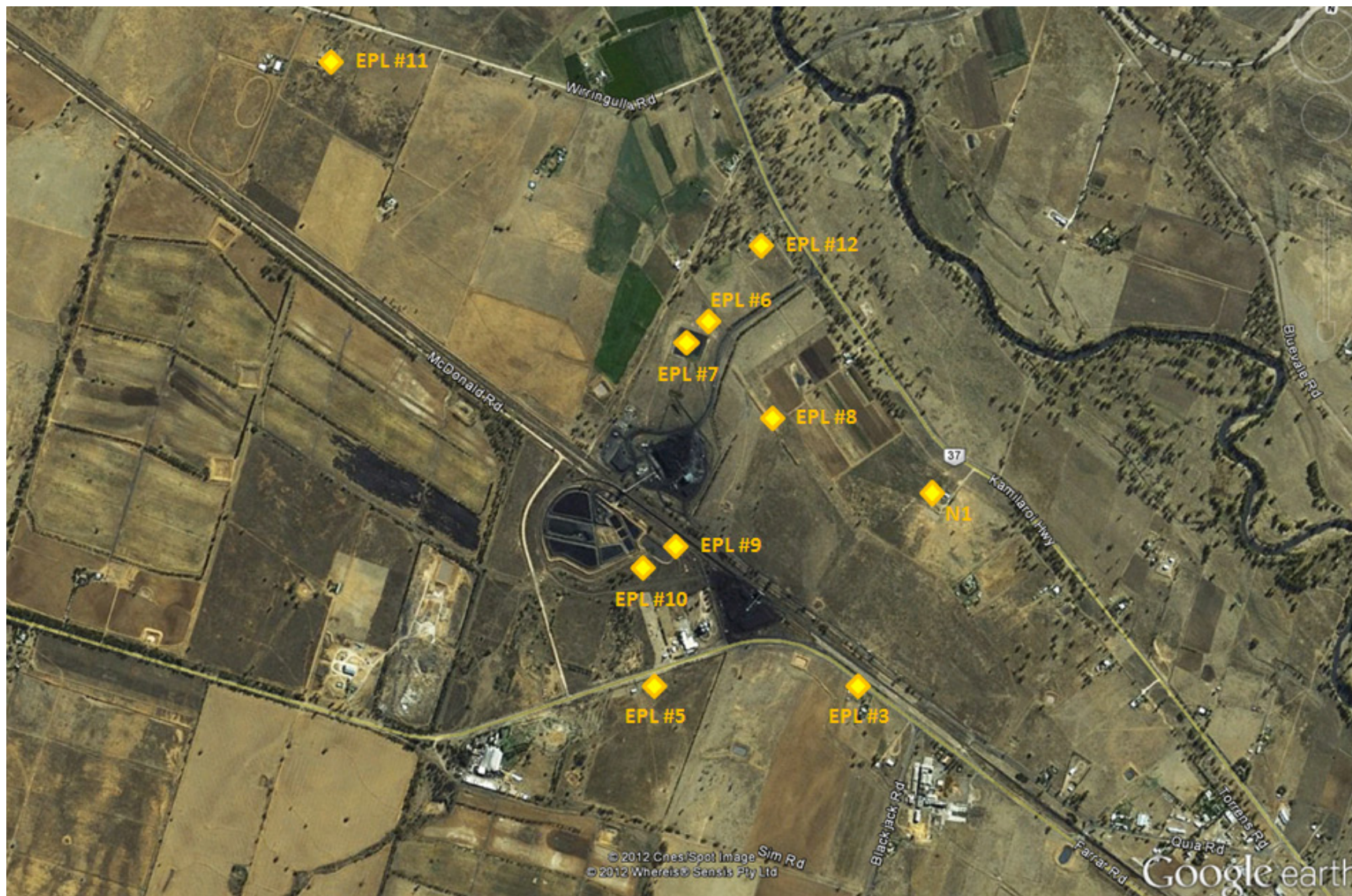
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1						38			No monitoring this month
						37			
						35			
						45			



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32344&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: August 2013

Publication Date: 25th September 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	19/8/13	27/8/13	-	-	-	0.6
5	Solid Particles	g/m ² /month	Continuous	1	19/8/13	27/8/13	-	-	-	6.4
	PM ₁₀	µg/m ³	Every 6 days	6	Various	11/9/13	5.3	12.3	12.3	19.2
11	PM ₁₀	µg/m ³	Every 6 days	6	Various	11/9/13	11.4	29.1	29.1	49.0
12	PM ₁₀	µg/m ³	Every 6 days	6	Various	11/9/13	7.4	24.0	18.0	64.7
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	1	5/8/13	13/3/13	-	-	-	1990
	Oil and Grease	mg/L		1	5/8/13	13/3/13	-	-	-	<5
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		1	5/8/13	13/3/13	-	-	-	9
	pH	pH		1	5/8/13	13/3/13	-	-	-	8.41



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	1	26/8/13	30/8/13	-	-	-	0.03
	Bicarbonate	mg/L		1	26/8/13	30/8/13	-	-	-	1320
	Calcium	mg/L		1	26/8/13	30/8/13	-	-	-	28
	Chloride	mg/L		1	26/8/13	30/8/13	-	-	-	1230
	Conductivity	µs/cm		1	26/8/13	30/8/13	-	-	-	7180
	Lead	mg/L		1	26/8/13	30/8/13	-	-	-	0.002
	Magnesium	mg/L		1	26/8/13	30/8/13	-	-	-	106
	Nitrate	mg/L		1	26/8/13	30/8/13	-	-	-	0.52
	Potassium	mg/L		1	26/8/13	30/8/13	-	-	-	26
	Sodium	mg/L		1	26/8/13	30/8/13	-	-	-	1500
	Standing Water Level	m		1	26/8/13	30/8/13	-	-	-	5.83
	Sulphate	mg/L		1	26/8/13	30/8/13	-	-	-	619
	pH	pH		1	26/8/13	30/8/13	-	-	-	8.36
9	Ammonia	mg/L	Quarterly	1	26/8/13	30/8/13	-	-	-	<0.01
	Bicarbonate	mg/L		1	26/8/13	30/8/13	-	-	-	869
	Calcium	mg/L		1	26/8/13	30/8/13	-	-	-	248
	Chloride	mg/L		1	26/8/13	30/8/13	-	-	-	1110
	Conductivity	µs/cm		1	26/8/13	30/8/13	-	-	-	6020
	Lead	mg/L		1	26/8/13	30/8/13	-	-	-	0.003
	Magnesium	mg/L		1	26/8/13	30/8/13	-	-	-	232
	Nitrate	mg/L		1	26/8/13	30/8/13	-	-	-	<0.01
	Potassium	mg/L		1	26/8/13	30/8/13	-	-	-	124
	Sodium	mg/L		1	26/8/13	30/8/13	-	-	-	704
	Standing Water Level	m		1	26/8/13	30/8/13	-	-	-	0.56
	Sulphate	mg/L		1	26/8/13	30/8/13	-	-	-	676
	pH	pH		1	26/8/13	30/8/13	-	-	-	7.45
10	Ammonia	mg/L	Quarterly	1	26/8/13	30/8/13	-	-	-	<0.01



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		1	26/8/13	30/8/13	-	-	-	704
	Calcium	mg/L		1	26/8/13	30/8/13	-	-	-	200
	Chloride	mg/L		1	26/8/13	30/8/13	-	-	-	1380
	Conductivity	µs/cm		1	26/8/13	30/8/13	-	-	-	5880
	Lead	mg/L		1	26/8/13	30/8/13	-	-	-	0.002
	Magnesium	mg/L		1	26/8/13	30/8/13	-	-	-	216
	Nitrate	mg/L		1	26/8/13	30/8/13	-	-	-	13.8
	Potassium	mg/L		1	26/8/13	30/8/13	-	-	-	65
	Sodium	mg/L		1	26/8/13	30/8/13	-	-	-	727
	Standing Water Level	m		1	26/8/13	30/8/13	-	-	-	0.47
	Sulphate	mg/L		1	26/8/13	30/8/13	-	-	-	251
	pH	pH		1	26/8/13	30/8/13	-	-	-	7.57

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

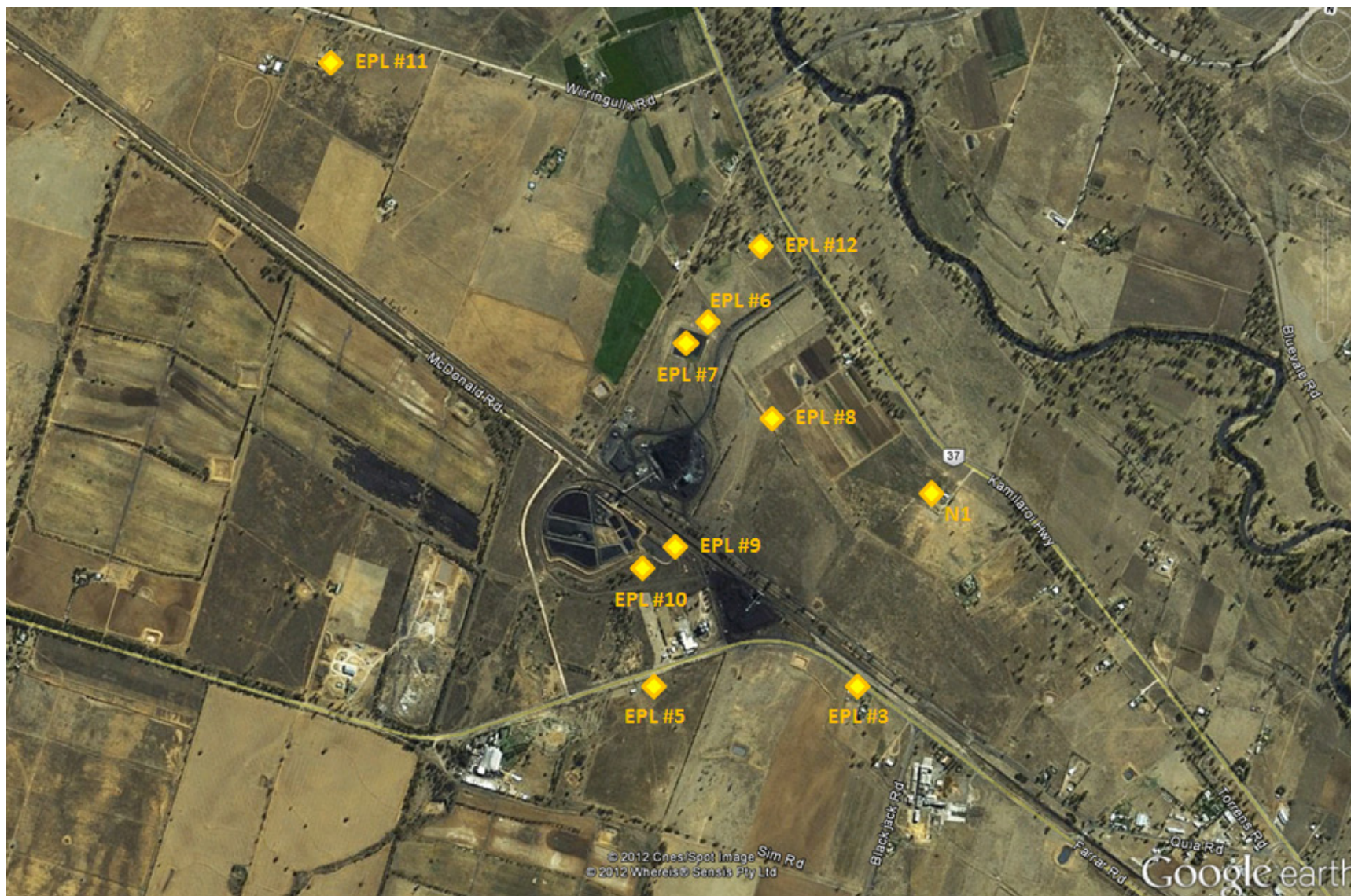
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	27/8/13	2:47pm	15 min		38	38	1.6 / 183		No – project-related property.
	27/8/13	9:31pm	15 min		43	37	Calm		
	27/8/13	10:31pm	15 min		40	35	1.8 / 343		
	27/8/13	10:31pm	15 min	44		45	1.8 / 343		



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33124&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: September 2013

Publication Date: 9th October 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	18/9/13	24/9/13	-	-	-	1.1
5	Solid Particles	g/m ² /month	Continuous	1	18/9/13	24/9/13	-	-	-	1.0
	PM ₁₀	µg/m ³	Every 6 days	4	Various	4/10/13	6.8	20.0	22.0	29.4
11	PM ₁₀	µg/m ³	Every 6 days	4	Various	4/10/13	6.6	32.9	40.7	43.8
12	PM ₁₀	µg/m ³	Every 6 days	4	Various	4/10/13	22.2	35.4	30.25	59.0
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

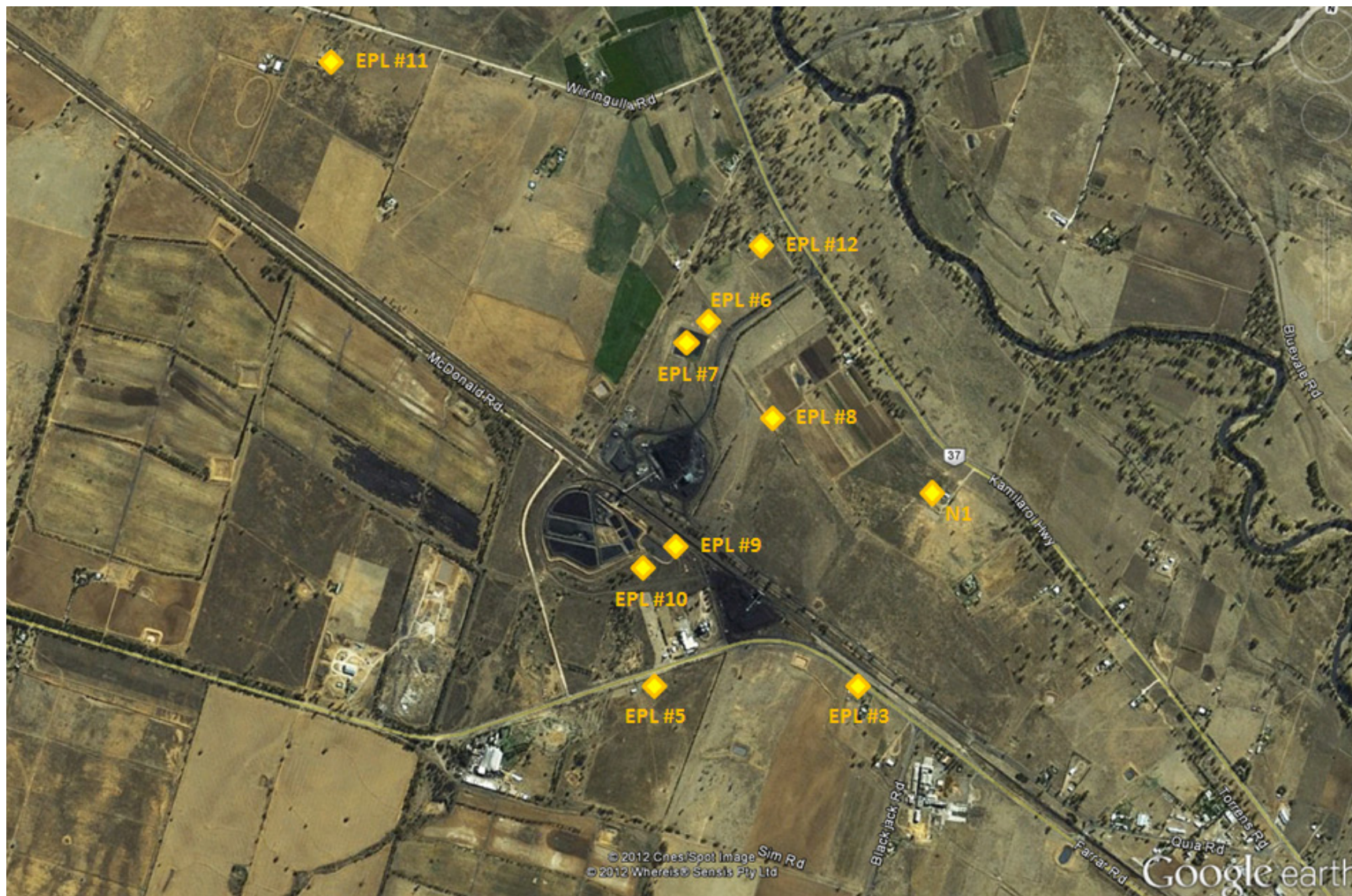
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	38	-	-	No monitoring this month
	-	-	-		-	37	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		45	-	-	



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33124&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: October 2013

Publication Date: 29th November 2013

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	17/10/13	28/10/13	-	-	-	1.3
5	Solid Particles	g/m ² /month	Continuous	1	17/10/13	28/10/13	-	-	-	0.4
	PM ₁₀	µg/m ³	Every 6 days	6	Various	15/11/13	6.6	18.9	18.3	35.9
11	PM ₁₀	µg/m ³	Every 6 days	6	Various	15/11/13	13.3	28.9	28.5	44.2
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	15/11/13	11.7	31.3	35.9	57.9
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	38	-	-	No monitoring this month
	-	-	-		-	37	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		45	-	-	



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33124&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: November 2013

Publication Date: 13th January 2014

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	15/11/13	26/11/13	-	-	-	3.7
5	Solid Particles	g/m ² /month	Continuous	1	15/11/13	26/11/13	-	-	-	2.8
	PM ₁₀	µg/m ³	Every 6 days	4	Various	16/12/13	3.5	7.0	5.2	14.2
11	PM ₁₀	µg/m ³	Every 6 days	4	Various	16/12/13	5.6	9.0	7.8	14.6
12	PM ₁₀	µg/m ³	Every 6 days	2	Various	16/12/13	7.0	11.6	11.6	16.1
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	1	-	-	-	-	-	2720
	Oil and Grease	mg/L		1	-	-	-	-	-	<5
	Total Organic Carbon	mg/L		1	-	-	-	-	-	6
	Total Suspended Solids	mg/L		1	-	-	-	-	-	9
	pH	pH		1	-	-	-	-	-	8.51



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		0	-	-	-	-	-	-
	Calcium	mg/L		0	-	-	-	-	-	-
	Chloride	mg/L		0	-	-	-	-	-	-
	Conductivity	µs/cm		0	-	-	-	-	-	-
	Lead	mg/L		0	-	-	-	-	-	-
	Magnesium	mg/L		0	-	-	-	-	-	-
	Nitrate	mg/L		0	-	-	-	-	-	-
	Potassium	mg/L		0	-	-	-	-	-	-
	Sodium	mg/L		0	-	-	-	-	-	-
	Standing Water Level	m		0	-	-	-	-	-	-
	Sulphate	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	38	-	-	No monitoring this month
	-	-	-		-	37	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		45	-	-	



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33124&SYSUID=1&LICID=3637>

Licensee: Whitehaven Coal Mining Limited

Licensee Address: Boggabri Road, Gunnedah NSW 2380

EPL Monitoring Points: See Figure 1 below

Sampling Period: December 2013

Publication Date: 14th January 2014

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
3	Solid Particles	g/m ² /month	Continuous	1	17/12/13	2/1/14	-	-	-	3.3
5	Solid Particles	g/m ² /month	Continuous	1	17/12/13	2/1/14	-	-	-	1.7
	PM ₁₀	µg/m ³	Every 6 days	6	Various	10/1/14	4.9	12.8	12.8	21.3
11	PM ₁₀	µg/m ³	Every 6 days	6	Various	10/1/14	6.4	14.6	12.1	28.4
12	PM ₁₀	µg/m ³	Every 6 days	0	-	-	-	-	-	-
6	Conductivity	ms/cm	Each overflow event	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-
7	Conductivity	ms/cm	Quarterly	0	-	-	-	-	-	-
	Oil and Grease	mg/L		0	-	-	-	-	-	-
	Total Organic Carbon	mg/L		0	-	-	-	-	-	-
	Total Suspended Solids	mg/L		0	-	-	-	-	-	-
	pH	pH		0	-	-	-	-	-	-



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Table 2 – Monitoring (Quarterly – No Limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
8	Ammonia	mg/L	Quarterly	1	11/12/13	19/12/13	-	-	-	<0.01
	Bicarbonate	mg/L		1	11/12/13	19/12/13	-	-	-	1240
	Calcium	mg/L		1	11/12/13	19/12/13	-	-	-	30
	Chloride	mg/L		1	11/12/13	19/12/13	-	-	-	1130
	Conductivity	µs/cm		1	11/12/13	19/12/13	-	-	-	7500
	Lead	mg/L		1	11/12/13	19/12/13	-	-	-	0.002
	Magnesium	mg/L		1	11/12/13	19/12/13	-	-	-	113
	Nitrate	mg/L		1	11/12/13	19/12/13	-	-	-	0.13
	Potassium	mg/L		1	11/12/13	19/12/13	-	-	-	25
	Sodium	mg/L		1	11/12/13	19/12/13	-	-	-	1550
	Standing Water Level	m		1	11/12/13	19/12/13	-	-	-	6.09
	Sulphate	mg/L		1	11/12/13	19/12/13	-	-	-	724
	pH	pH		1	11/12/13	19/12/13	-	-	-	8.05
9	Ammonia	mg/L	Quarterly	1	11/12/13	19/12/13	-	-	-	<0.01
	Bicarbonate	mg/L		1	11/12/13	19/12/13	-	-	-	805
	Calcium	mg/L		1	11/12/13	19/12/13	-	-	-	250
	Chloride	mg/L		1	11/12/13	19/12/13	-	-	-	1030
	Conductivity	µs/cm		1	11/12/13	19/12/13	-	-	-	6210
	Lead	mg/L		1	11/12/13	19/12/13	-	-	-	0.002
	Magnesium	mg/L		1	11/12/13	19/12/13	-	-	-	241
	Nitrate	mg/L		1	11/12/13	19/12/13	-	-	-	0.03
	Potassium	mg/L		1	11/12/13	19/12/13	-	-	-	124
	Sodium	mg/L		1	11/12/13	19/12/13	-	-	-	739
	Standing Water Level	m		1	11/12/13	19/12/13	-	-	-	0.76
	Sulphate	mg/L		1	11/12/13	19/12/13	-	-	-	805
	pH	pH		1	11/12/13	19/12/13	-	-	-	7.4
10	Ammonia	mg/L	Quarterly	1	11/12/13	19/12/13	-	-	-	0.03



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		1	11/12/13	19/12/13	-	-	-	683
	Calcium	mg/L		1	11/12/13	19/12/13	-	-	-	202
	Chloride	mg/L		1	11/12/13	19/12/13	-	-	-	1280
	Conductivity	µs/cm		1	11/12/13	19/12/13	-	-	-	6080
	Lead	mg/L		1	11/12/13	19/12/13	-	-	-	0.002
	Magnesium	mg/L		1	11/12/13	19/12/13	-	-	-	217
	Nitrate	mg/L		1	11/12/13	19/12/13	-	-	-	14.3
	Potassium	mg/L		1	11/12/13	19/12/13	-	-	-	67
	Sodium	mg/L		1	11/12/13	19/12/13	-	-	-	740
	Standing Water Level	m		1	11/12/13	19/12/13	-	-	-	0.71
	Sulphate	mg/L		1	11/12/13	19/12/13	-	-	-	266
	pH	pH		1	11/12/13	19/12/13	-	-	-	7.42

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	4/12/13	10:03am	15 min		Inaudible	38	1.5m/s, 300°	-	Project related property – criteria do not apply
	4/12/13	8:31pm	15 min		32	37	4.0m/s, 328°	-	
	4/12/13	10:50pm	15 min		31	35	0.9m/s, 0°	-	
	4/12/13	10:50pm	15 min	40		45	0.9m/s, 0°	-	



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations

