



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=33514&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 2014

Publication Date: 26th March 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	15/1/14	21/1/14	-	-	-	2.2
5	Solid Particles	g/m ² /month	Continuous	1	15/1/14	21/1/14	-	-	-	1.6
	PM ₁₀	µg/m ³	Every 6 days	5	Various	14/2/14	1.5	11.4	13.6	15.3
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	14/2/14	8.9	22.7	14.6	56.5
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	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)

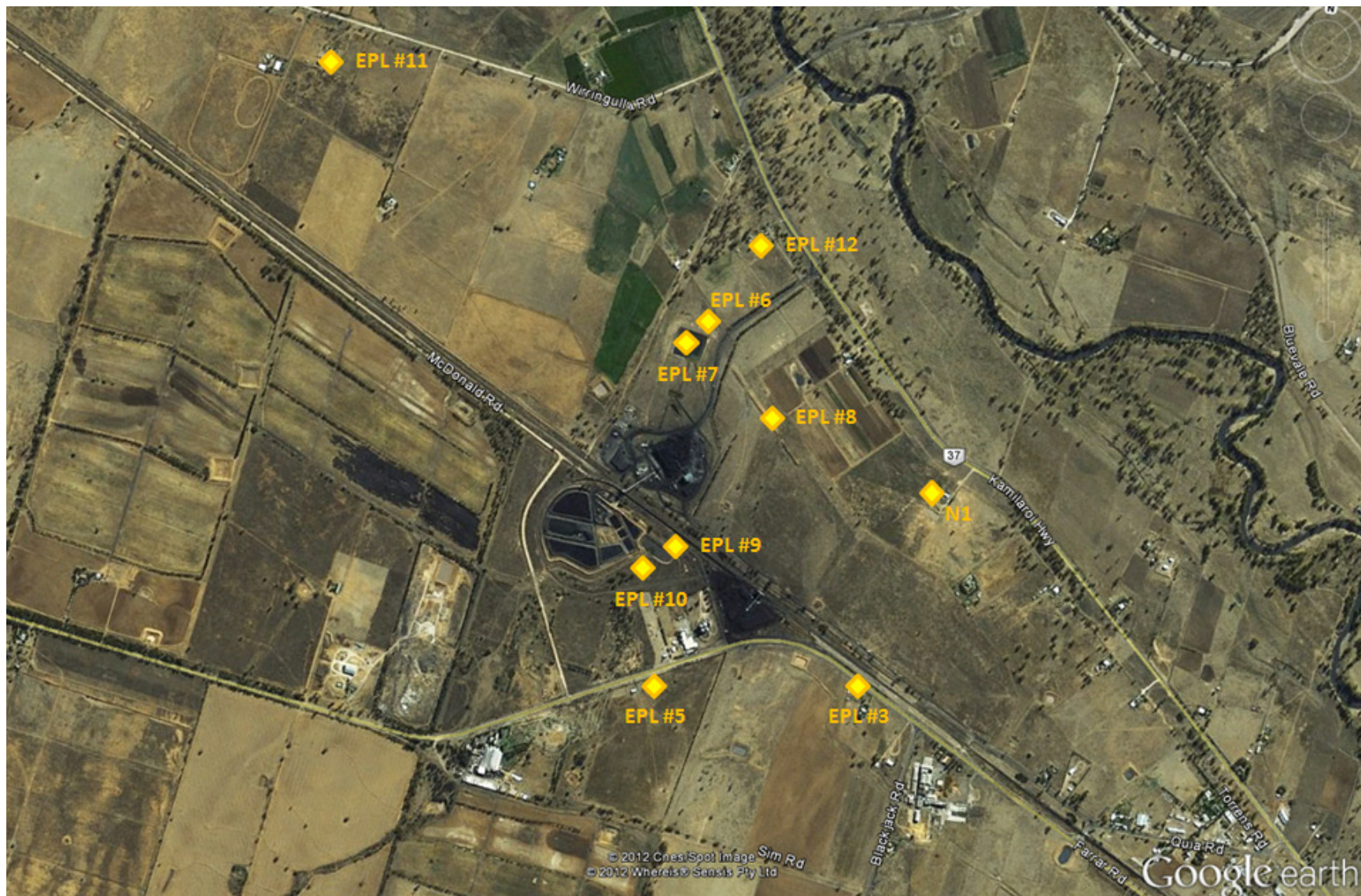
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		Inaudible	38	-	-	No monitoring this month
	-	-	-		32	37	-	-	
	-	-	-		31	35	-	-	
	-	-	-	40		45	-	-	



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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 2nd April 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	14/2/14	27/3/14	-	-	-	1.8
5	Solid Particles	g/m ² /month	Continuous	1	14/2/14	27/3/14	-	-	-	38.8
	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/3/14	12.9	19.5	17.2	33.9
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	11/3/14	16.8	29.1	28.9	42.8
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	1	5/2/14	12/2/14	-	-	-	2480
	Oil and Grease	mg/L		1	5/2/14	12/2/14	-	-	-	<5
	Total Organic Carbon	mg/L		1	5/2/14	12/2/14	-	-	-	4
	Total Suspended Solids	mg/L		1	5/2/14	12/2/14	-	-	-	17
	pH	pH		1	5/2/14	12/2/14	-	-	-	8.42



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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)

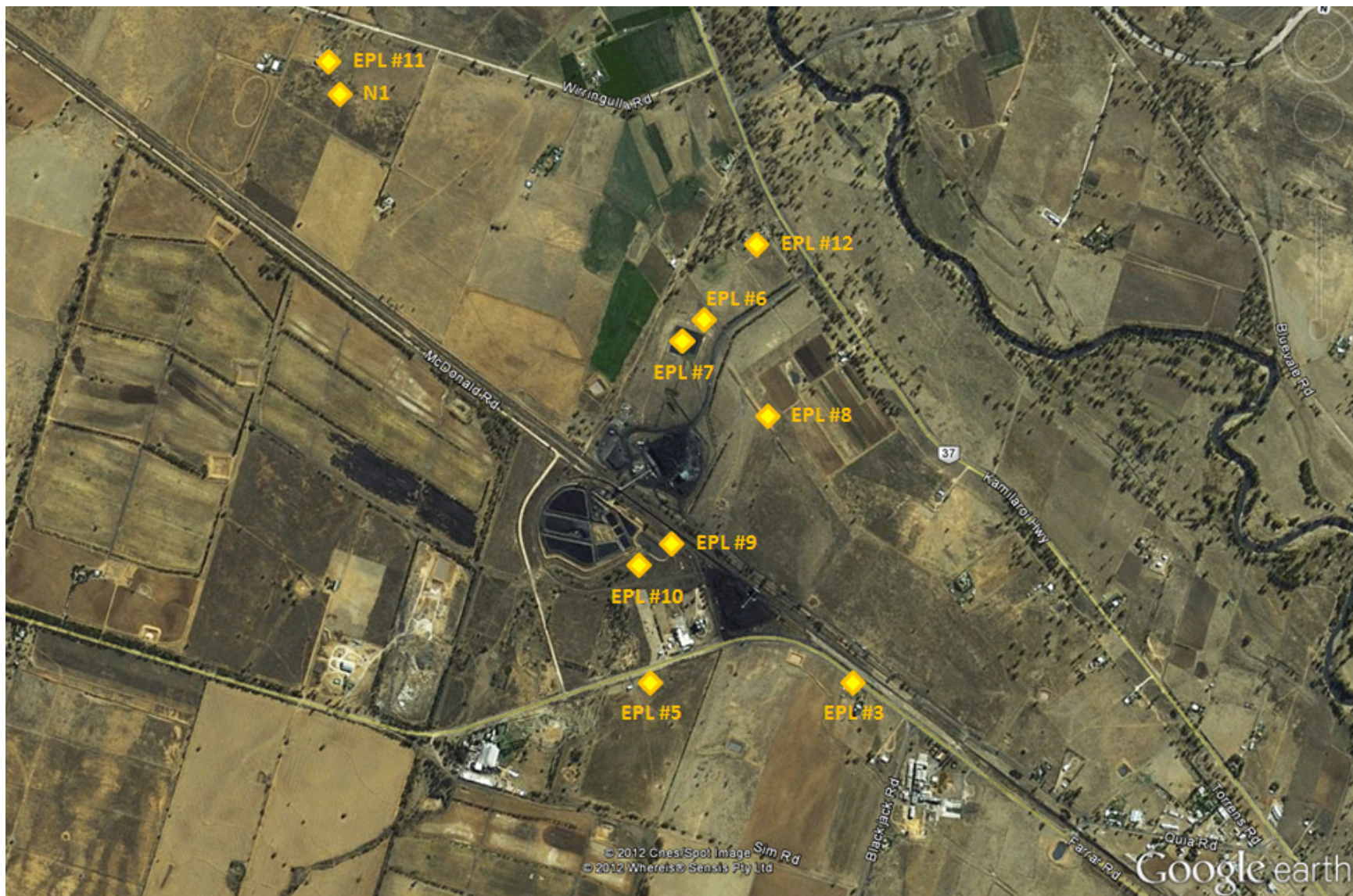
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 29th April 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	17/3/14	25/3/14	-	-	-	3.0
5	Solid Particles	g/m ² /month	Continuous	1	17/3/14	25/3/14	-	-	-	2.0
	PM ₁₀	µg/m ³	Every 6 days	5	Various	15/4/14	3.7	8.2	8.6	11.8
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	15/4/14	3.7	12.2	13.9	16.8
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	3/4/14	11/4/14	-	-	-	0.02
	Bicarbonate	mg/L		1	3/4/14	11/4/14	-	-	-	1320
	Calcium	mg/L		1	3/4/14	11/4/14	-	-	-	36
	Chloride	mg/L		1	3/4/14	11/4/14	-	-	-	1200
	Conductivity	µs/cm		1	3/4/14	11/4/14	-	-	-	7340
	Lead	mg/L		1	3/4/14	11/4/14	-	-	-	0.005
	Magnesium	mg/L		1	3/4/14	11/4/14	-	-	-	117
	Nitrate	mg/L		1	3/4/14	11/4/14	-	-	-	0.18
	Potassium	mg/L		1	3/4/14	11/4/14	-	-	-	23
	Sodium	mg/L		1	3/4/14	11/4/14	-	-	-	1570
	Standing Water Level	m		1	3/4/14	11/4/14	-	-	-	6.37
	Sulphate	mg/L		1	3/4/14	11/4/14	-	-	-	723
	pH	pH		1	3/4/14	11/4/14	-	-	-	8.10
9	Ammonia	mg/L	Quarterly	1	3/4/14	11/4/14	-	-	-	0.02
	Bicarbonate	mg/L		1	3/4/14	11/4/14	-	-	-	816
	Calcium	mg/L		1	3/4/14	11/4/14	-	-	-	255
	Chloride	mg/L		1	3/4/14	11/4/14	-	-	-	1110
	Conductivity	µs/cm		1	3/4/14	11/4/14	-	-	-	6080
	Lead	mg/L		1	3/4/14	11/4/14	-	-	-	0.006
	Magnesium	mg/L		1	3/4/14	11/4/14	-	-	-	256
	Nitrate	mg/L		1	3/4/14	11/4/14	-	-	-	0.29
	Potassium	mg/L		1	3/4/14	11/4/14	-	-	-	120
	Sodium	mg/L		1	3/4/14	11/4/14	-	-	-	696
	Standing Water Level	m		1	3/4/14	11/4/14	-	-	-	1.17
	Sulphate	mg/L		1	3/4/14	11/4/14	-	-	-	836
	pH	pH		1	3/4/14	11/4/14	-	-	-	7.35
10	Ammonia	mg/L	Quarterly	1	-	-	-	-	-	0.02



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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	-	-	-	-	-	655
	Calcium	mg/L		1	-	-	-	-	-	190
	Chloride	mg/L		1	-	-	-	-	-	1400
	Conductivity	µs/cm		1	-	-	-	-	-	5900
	Lead	mg/L		1	-	-	-	-	-	0.004
	Magnesium	mg/L		1	-	-	-	-	-	233
	Nitrate	mg/L		1	-	-	-	-	-	14.8
	Potassium	mg/L		1	-	-	-	-	-	65
	Sodium	mg/L		1	-	-	-	-	-	666
	Standing Water Level	m		1	-	-	-	-	-	1.15
	Sulphate	mg/L		1	-	-	-	-	-	268
	pH	pH		1	-	-	-	-	-	7.33

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

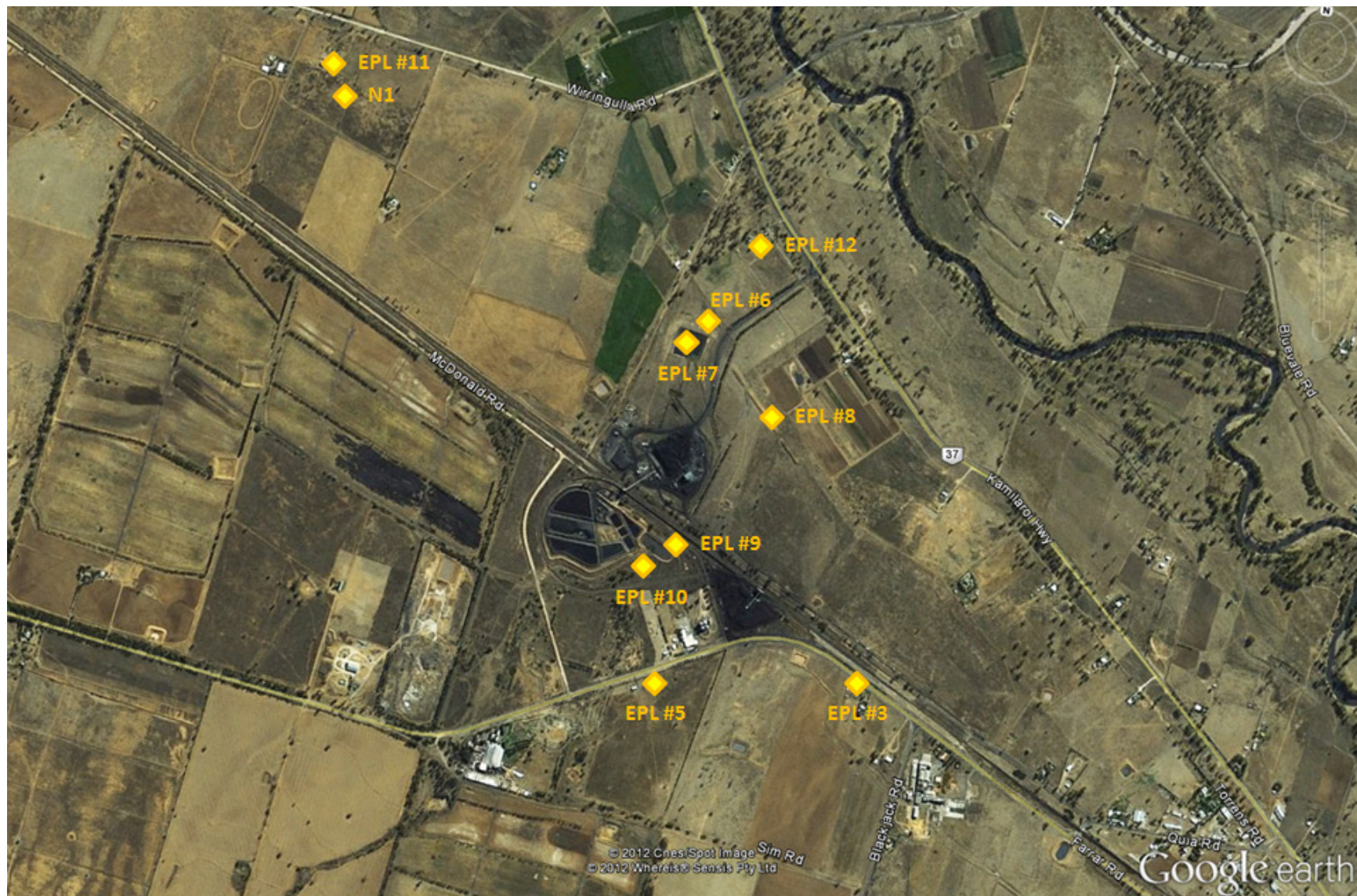
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 2nd June 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	22/4/14	1/5/14	-	-	-	0.5
5	Solid Particles	g/m ² /month	Continuous	1	22/4/14	1/5/14	-	-	-	55.1
	PM ₁₀	µg/m ³	Every 6 days	5	Various	14/5/14	5.4	14.0	14.8	19.6
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	14/5/14	7.1	21.0	17.7	33.2
12	PM ₁₀	µg/m ³	Every 6 days	3	Various	14/5/14	7.8	15.1	12.1	25.4
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)

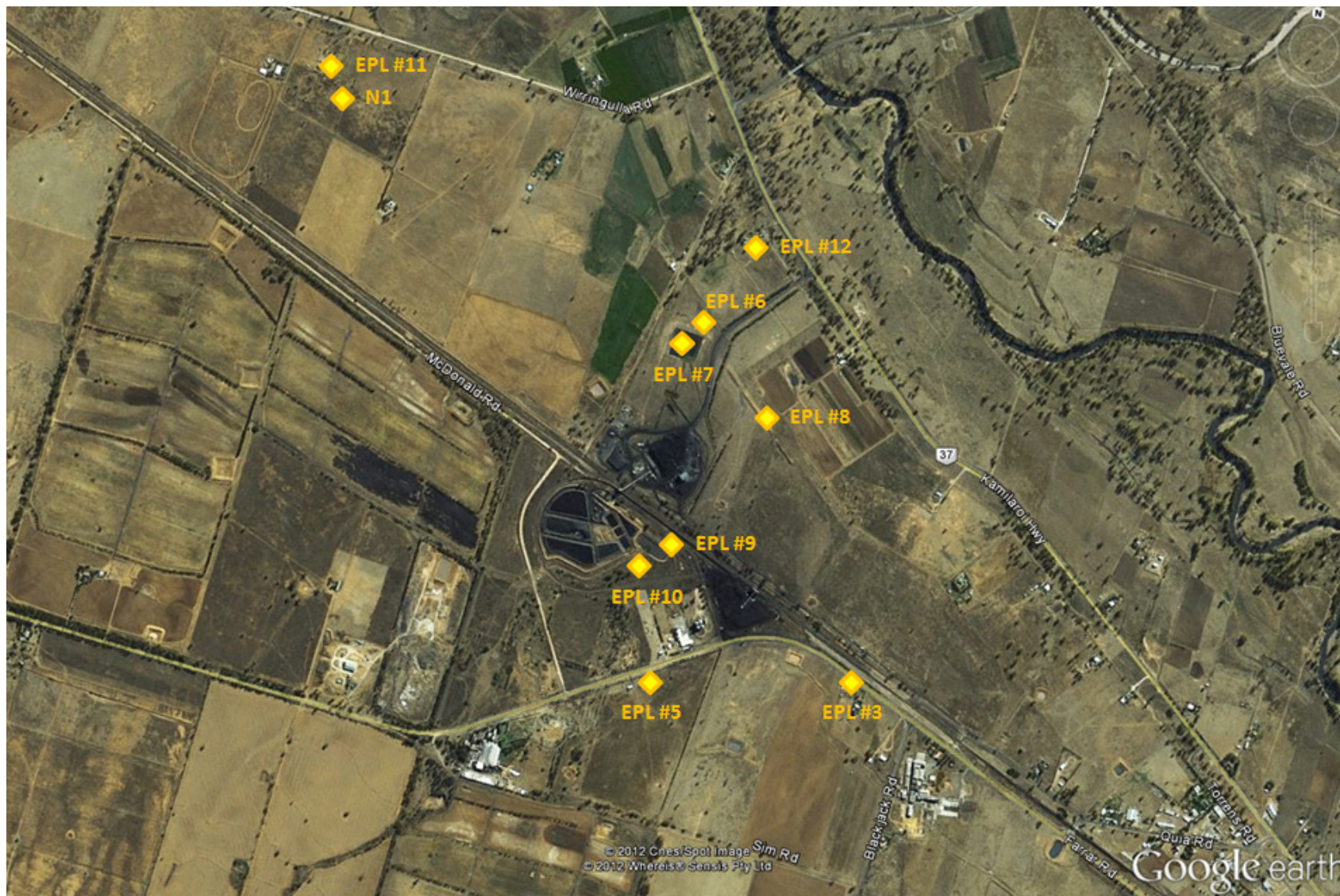
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-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



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 25th June 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	16/5/14	26/5/14	-	-	-	2.0
5	Solid Particles	g/m ² /month	Continuous	1	16/5/14	26/5/14	-	-	-	51.9
	PM ₁₀	µg/m ³	Every 6 days	5	Various	13/6/14	2.0	10.3	10.2	17.6
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	13/6/14	2.4	21.5	21.6	46.2
12	PM ₁₀	µg/m ³	Every 6 days	3	Various	13/6/14	2.6	12.6	14.0	19.2
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	1	1/5/14	9/5/14	-	-	-	2110
	Oil and Grease	mg/L		1	1/5/14	9/5/14	-	-	-	<5
	Total Organic Carbon	mg/L		1	1/5/14	9/5/14	-	-	-	<1
	Total Suspended Solids	mg/L		1	1/5/14	9/5/14	-	-	-	17
	pH	pH		1	1/5/14	9/5/14	-	-	-	8.24

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	29/5/14	5/6/14	-	-	-	0.1
	Bicarbonate	mg/L		1	29/5/14	5/6/14	-	-	-	1300
	Calcium	mg/L		1	29/5/14	5/6/14	-	-	-	30
	Chloride	mg/L		1	29/5/14	5/6/14	-	-	-	1100
	Conductivity	µs/cm		1	29/5/14	5/6/14	-	-	-	7310
	Lead	mg/L		1	29/5/14	5/6/14	-	-	-	0.002
	Magnesium	mg/L		1	29/5/14	5/6/14	-	-	-	108
	Nitrate	mg/L		1	29/5/14	5/6/14	-	-	-	0.24
	Potassium	mg/L		1	29/5/14	5/6/14	-	-	-	24
	Sodium	mg/L		1	29/5/14	5/6/14	-	-	-	1430
	Standing Water Level	m		1	29/5/14	5/6/14	-	-	-	6.47
	Sulphate	mg/L		1	29/5/14	5/6/14	-	-	-	665
	pH	pH		1	29/5/14	5/6/14	-	-	-	8.18
9	Ammonia	mg/L	Quarterly	1	29/5/14	5/6/14	-	-	-	0.06
	Bicarbonate	mg/L		1	29/5/14	5/6/14	-	-	-	724
	Calcium	mg/L		1	29/5/14	5/6/14	-	-	-	206
	Chloride	mg/L		1	29/5/14	5/6/14	-	-	-	1030
	Conductivity	µs/cm		1	29/5/14	5/6/14	-	-	-	6030
	Lead	mg/L		1	29/5/14	5/6/14	-	-	-	0.001
	Magnesium	mg/L		1	29/5/14	5/6/14	-	-	-	241
	Nitrate	mg/L		1	29/5/14	5/6/14	-	-	-	0.40
	Potassium	mg/L		1	29/5/14	5/6/14	-	-	-	110
	Sodium	mg/L		1	29/5/14	5/6/14	-	-	-	695
	Standing Water Level	m		1	29/5/14	5/6/14	-	-	-	1.03
	Sulphate	mg/L		1	29/5/14	5/6/14	-	-	-	754
	pH	pH		1	29/5/14	5/6/14	-	-	-	7.79
10	Ammonia	mg/L	Quarterly	1	29/5/14	5/6/14	-	-	-	0.04

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

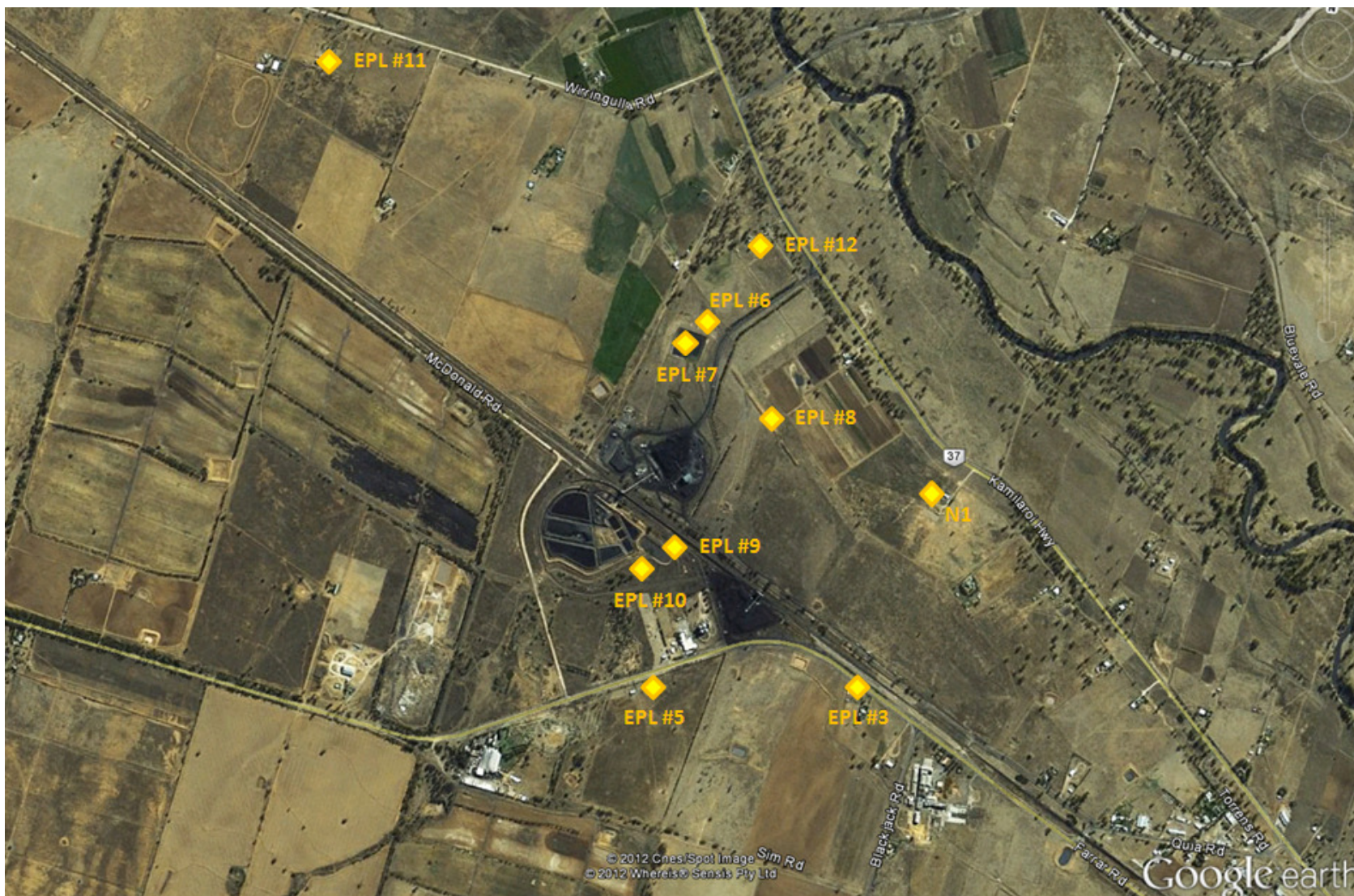
EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max or Only Value
	Bicarbonate	mg/L		1	29/5/14	5/6/14	-	-	-	612
	Calcium	mg/L		1	29/5/14	5/6/14	-	-	-	175
	Chloride	mg/L		1	29/5/14	5/6/14	-	-	-	1220
	Conductivity	µs/cm		1	29/5/14	5/6/14	-	-	-	5900
	Lead	mg/L		1	29/5/14	5/6/14	-	-	-	0.003
	Magnesium	mg/L		1	29/5/14	5/6/14	-	-	-	209
	Nitrate	mg/L		1	29/5/14	5/6/14	-	-	-	14.5
	Potassium	mg/L		1	29/5/14	5/6/14	-	-	-	59
	Sodium	mg/L		1	29/5/14	5/6/14	-	-	-	665
	Standing Water Level	m		1	29/5/14	5/6/14	-	-	-	0.97
	Sulphate	mg/L		1	29/5/14	5/6/14	-	-	-	255
	pH	pH		1	29/5/14	5/6/14	-	-	-	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	6/5/14	8:14pm	15 min		26	35	Calm	Traffic (32), CHPP (26)	Yes
	6/5/14	10:45pm	15 min		39	35	0.7/136	CHPP (39) , traffic (33)	
	7/5/14	7:14am	15 min		38	35	0.9/188	Traffic (39), CHPP (38) , birds (32)	
	6/5/14	10:45pm	15 min	44		45	0.7/136	CHPP (44)	

 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=33514&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 2014

Publication Date: 18th September 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	18/6/14	25/6/14	-	-	-	1.2
5	Solid Particles	g/m ² /month	Continuous	1	18/6/14	25/6/14	-	-	-	23
	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/7/14	2.9	7.2	7.3	10.8
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/7/14	3.7	10.2	7.8	23.9
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/7/14	3.6	8.5	8.7	12.4
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)

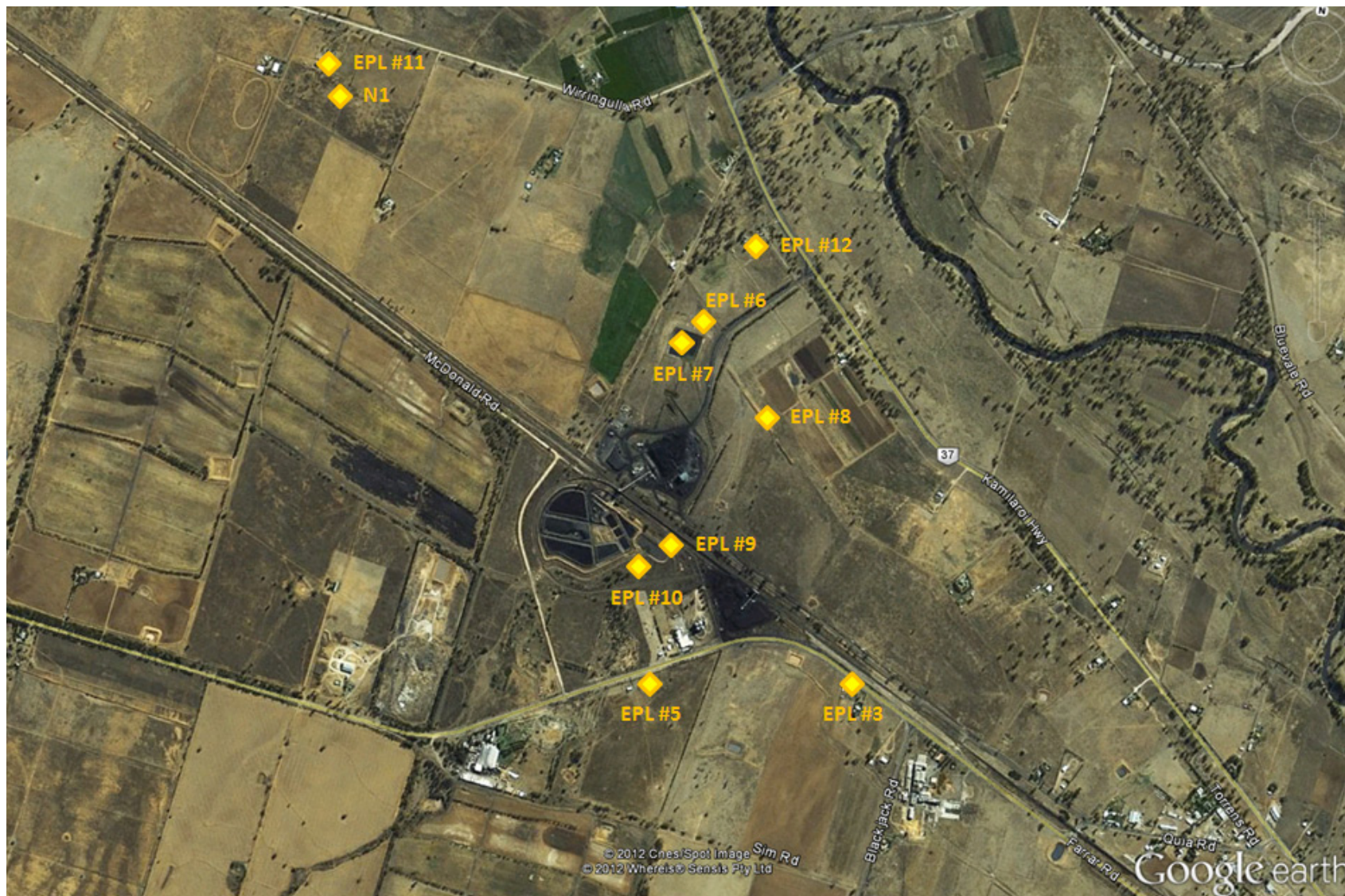
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 18th September 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	15/7/14	24/7/14	-	-	-	0.6
5	Solid Particles	g/m ² /month	Continuous	1	15/7/14	24/7/14	-	-	-	2.3
	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/8/14	0.8	10.3	11.7	24.2
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/8/14	1.3	16.5	21.3	27.1
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	8/8/14	3.4	12.7	13.5	19.6
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)

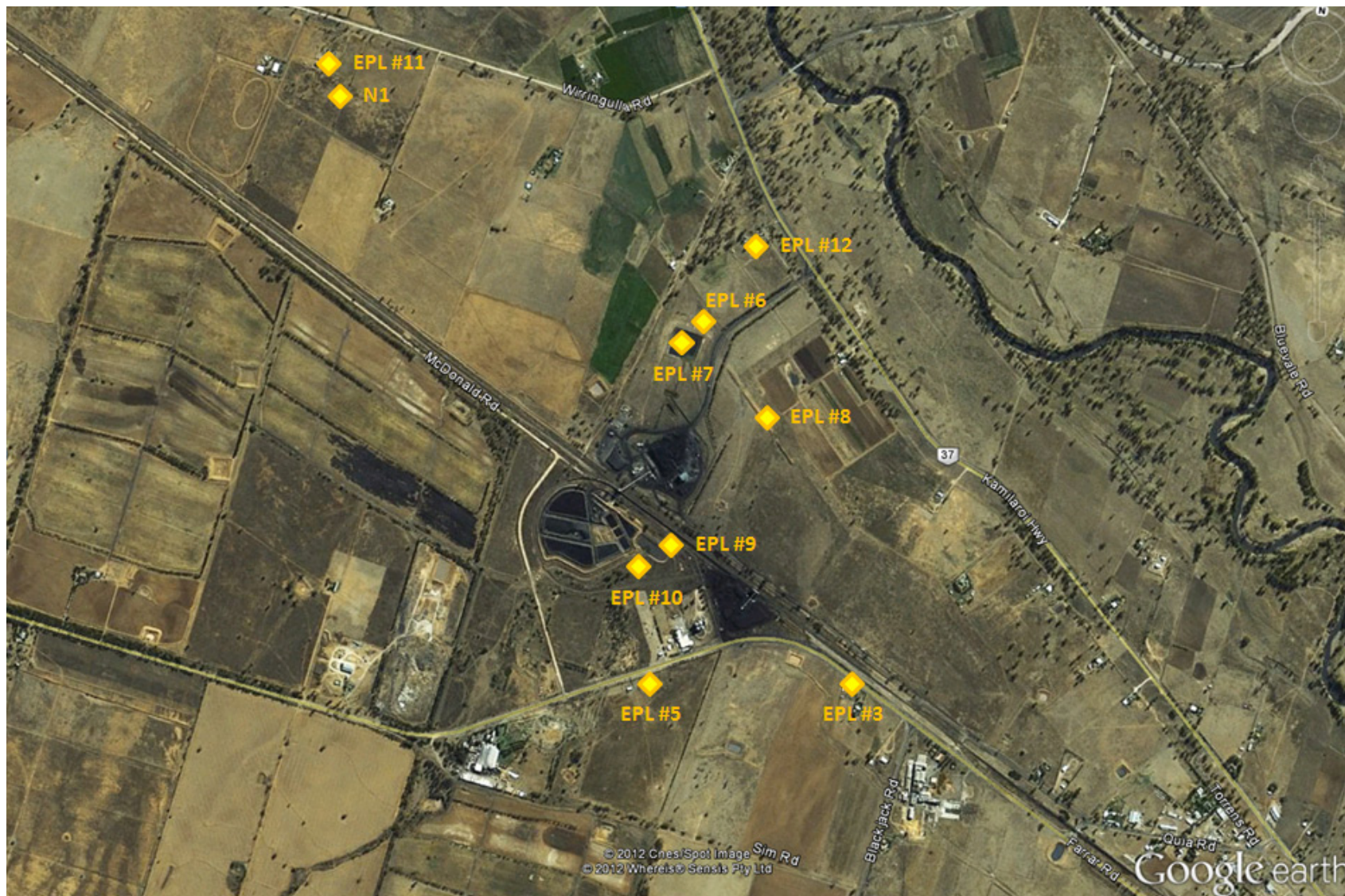
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 18th September 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	14/8/14	21/8/14	-	-	-	0.4
5	Solid Particles	g/m ² /month	Continuous	1	14/8/14	21/8/14	-	-	-	26.2
	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/9/14	1.3	6.0	5.2	11.2
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/9/14	3.9	11.7	9.7	27.7
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/9/14	6.7	13.1	8	23.5
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	29/8/14	9/9/14	-	-	-	<0.01
	Bicarbonate	mg/L		1	29/8/14	9/9/14	-	-	-	1170
	Calcium	mg/L		1	29/8/14	9/9/14	-	-	-	32
	Chloride	mg/L		1	29/8/14	9/9/14	-	-	-	1320
	Conductivity	µs/cm		1	29/8/14	9/9/14	-	-	-	7340
	Lead	mg/L		1	29/8/14	9/9/14	-	-	-	0.005
	Magnesium	mg/L		1	29/8/14	9/9/14	-	-	-	113
	Nitrate	mg/L		1	29/8/14	9/9/14	-	-	-	0.61
	Potassium	mg/L		1	29/8/14	9/9/14	-	-	-	26
	Sodium	mg/L		1	29/8/14	9/9/14	-	-	-	1510
	Standing Water Level	m		1	29/8/14	9/9/14	-	-	-	6.6
	Sulphate	mg/L		1	29/8/14	9/9/14	-	-	-	684
	pH	pH		1	29/8/14	9/9/14	-	-	-	8.45
9	Ammonia	mg/L	Quarterly	1	29/8/14	9/9/14	-	-	-	0.06
	Bicarbonate	mg/L		1	29/8/14	9/9/14	-	-	-	779
	Calcium	mg/L		1	29/8/14	9/9/14	-	-	-	261
	Chloride	mg/L		1	29/8/14	9/9/14	-	-	-	1160
	Conductivity	µs/cm		1	29/8/14	9/9/14	-	-	-	6060
	Lead	mg/L		1	29/8/14	9/9/14	-	-	-	0.003
	Magnesium	mg/L		1	29/8/14	9/9/14	-	-	-	238
	Nitrate	mg/L		1	29/8/14	9/9/14	-	-	-	0.03
	Potassium	mg/L		1	29/8/14	9/9/14	-	-	-	125
	Sodium	mg/L		1	29/8/14	9/9/14	-	-	-	703
	Standing Water Level	m		1	29/8/14	9/9/14	-	-	-	0.75
	Sulphate	mg/L		1	29/8/14	9/9/14	-	-	-	755
	pH	pH		1	29/8/14	9/9/14	-	-	-	7.54
10	Ammonia	mg/L	Quarterly	1	29/8/14	9/9/14	-	-	-	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	29/8/14	9/9/14	-	-	-	623
	Calcium	mg/L		1	29/8/14	9/9/14	-	-	-	192
	Chloride	mg/L		1	29/8/14	9/9/14	-	-	-	1400
	Conductivity	µs/cm		1	29/8/14	9/9/14	-	-	-	5950
	Lead	mg/L		1	29/8/14	9/9/14	-	-	-	0.002
	Magnesium	mg/L		1	29/8/14	9/9/14	-	-	-	219
	Nitrate	mg/L		1	29/8/14	9/9/14	-	-	-	14.4
	Potassium	mg/L		1	29/8/14	9/9/14	-	-	-	66
	Sodium	mg/L		1	29/8/14	9/9/14	-	-	-	718
	Standing Water Level	m		1	29/8/14	9/9/14	-	-	-	0.76
	Sulphate	mg/L		1	29/8/14	9/9/14	-	-	-	259
	pH	pH		1	29/8/14	9/9/14	-	-	-	7.73

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

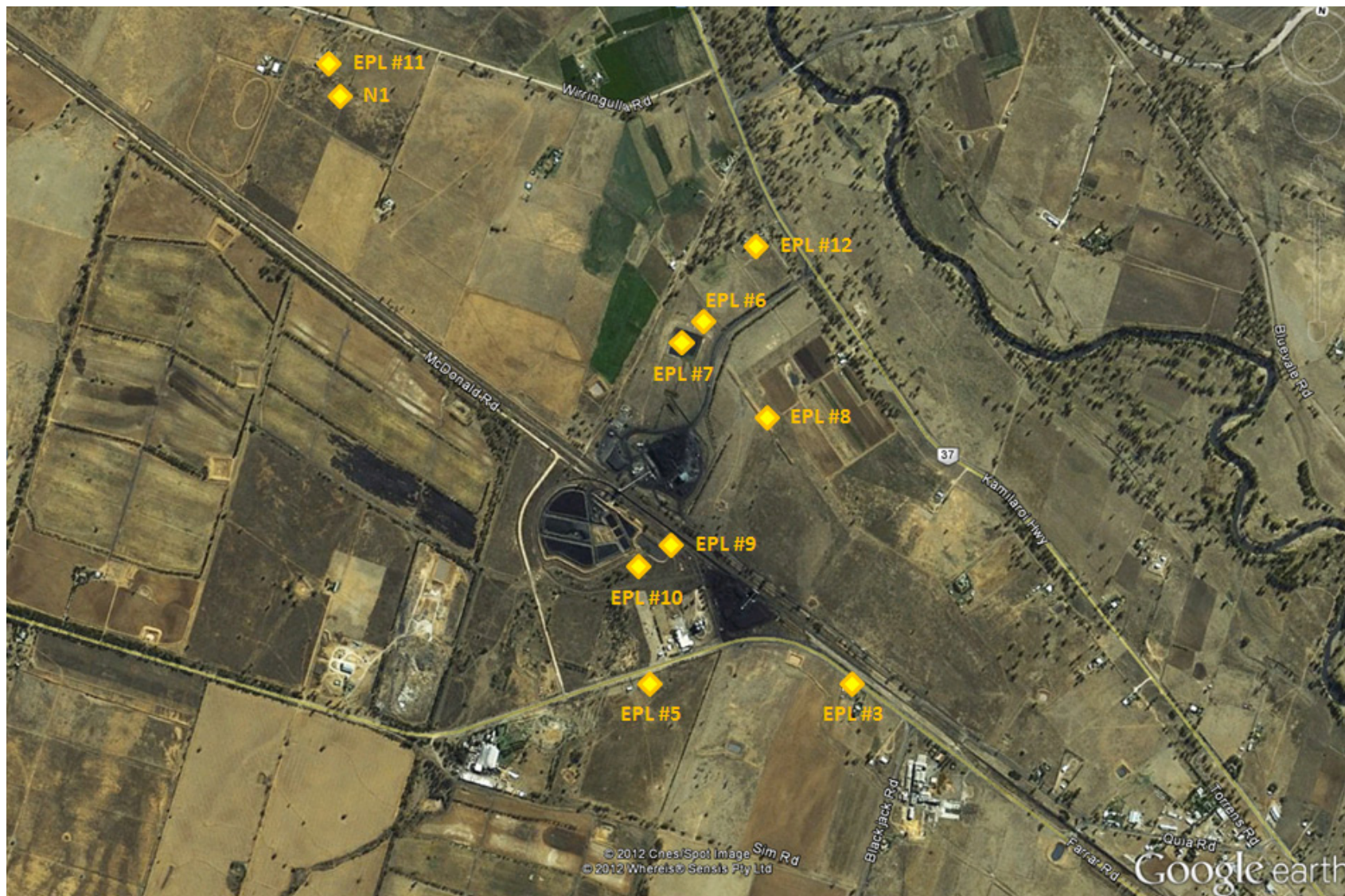
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 12th 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	15/9/14	24/9/14	-	-	-	1.2
5	Solid Particles	g/m ² /month	Continuous	1	15/9/14	24/9/14	-	-	-	62.9
	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/10/14	4.8	11.9	11.1	21.4
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	10/10/14	5.0	9.5	9.6	18.1
12	PM ₁₀	µg/m ³	Every 6 days	2	Various	10/10/14	11.2	12.75	12.75	14.3
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	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)

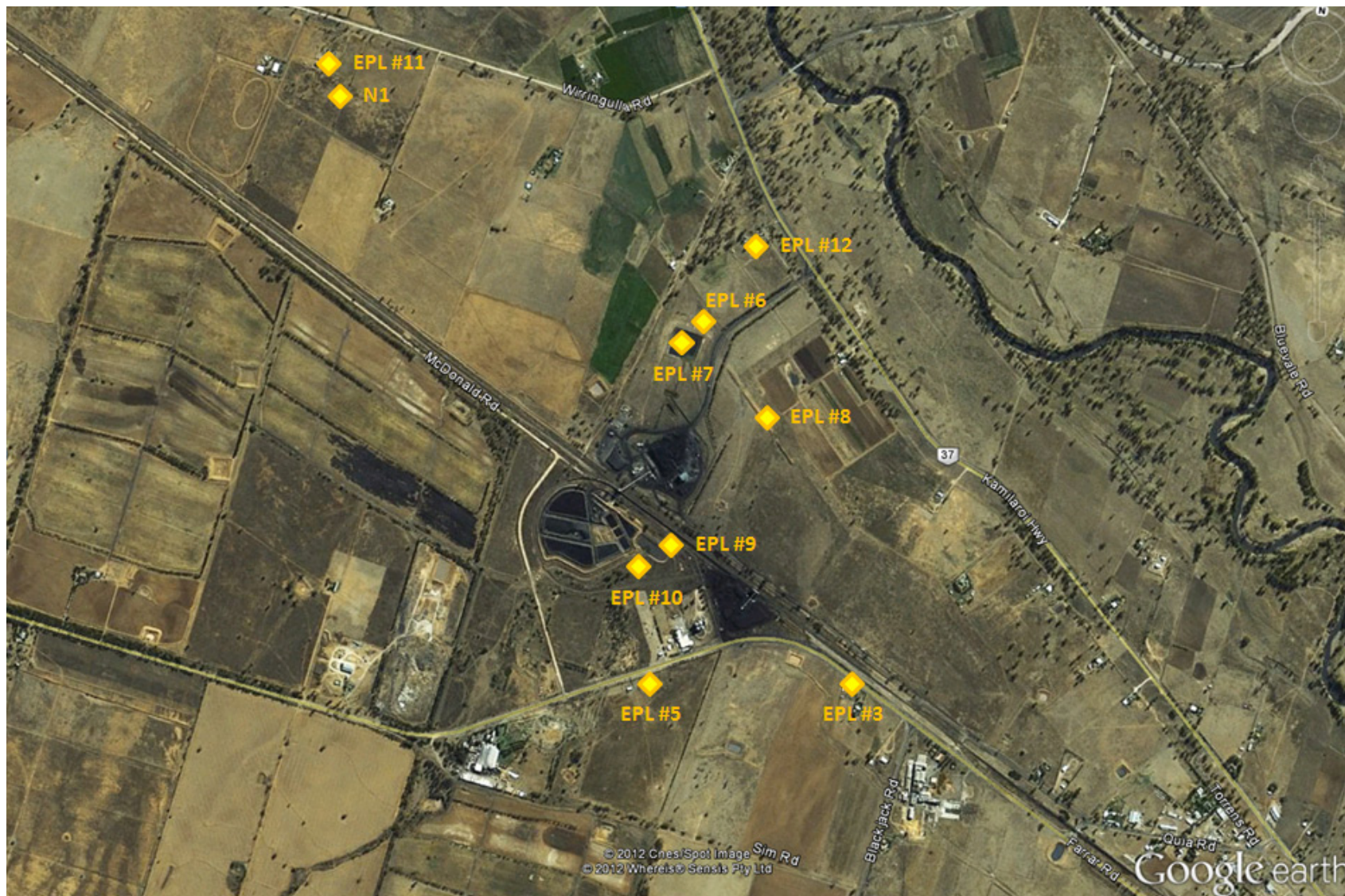
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-	-		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.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 12th 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	15/10/14	27/11/14	-	-	-	1.4
5	Solid Particles	g/m ² /month	Continuous	1	15/10/14	27/11/14	-	-	-	70.9
	PM ₁₀	µg/m ³	Every 6 days	6	Various	12/11/14	11.0	19.1	18.1	28.9
11	PM ₁₀	µg/m ³	Every 6 days	6	Various	12/11/14	15.5	32.5	23.2	60.1
12	PM ₁₀	µg/m ³	Every 6 days	1	1/10/14	12/11/14	22.6	22.6	22.6	22.6
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)

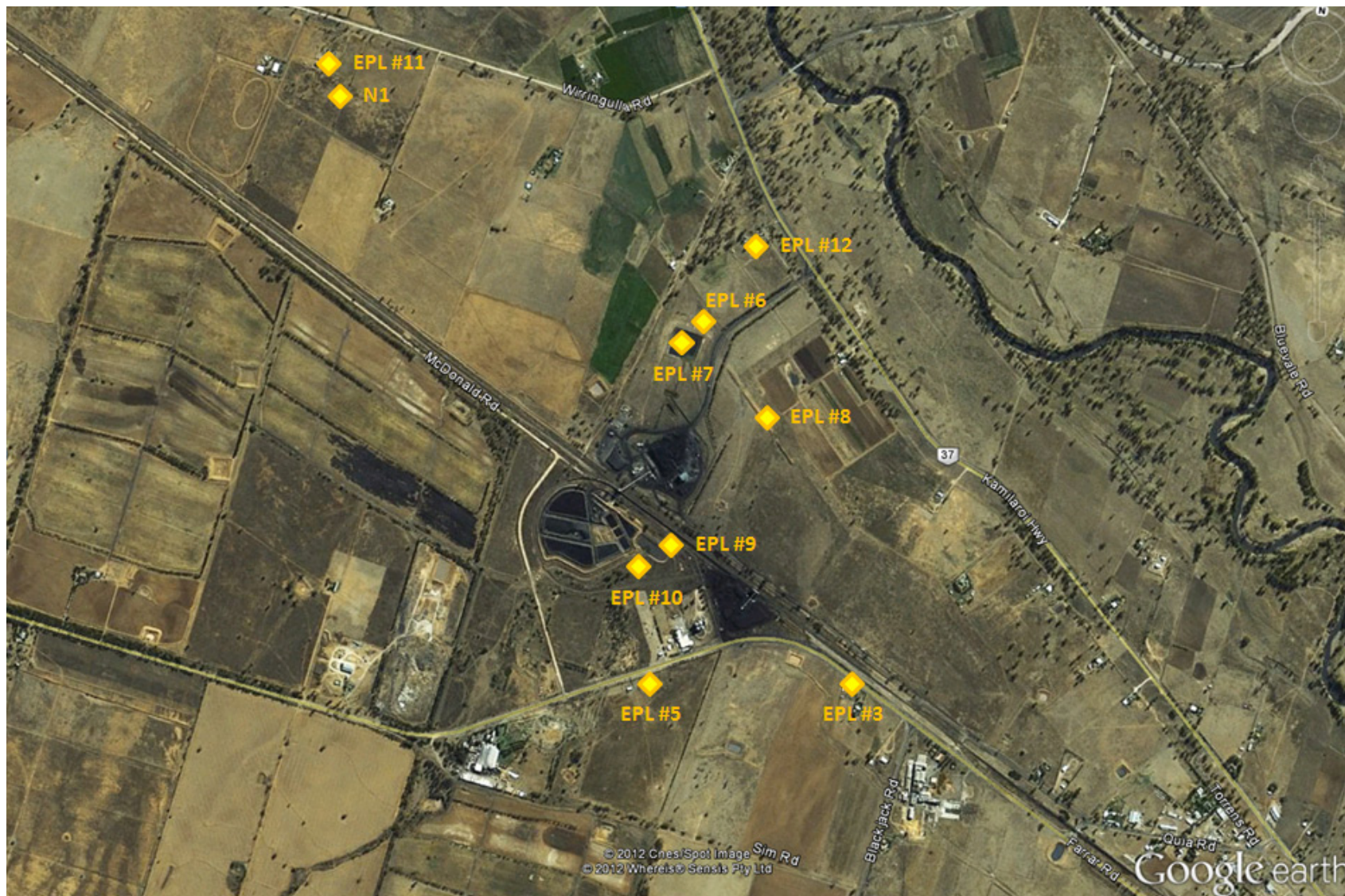
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	-	-	-		-	35	-	-	No monitoring this month
	-	-	-		-	35	-	-	
	-	-	-		-	35	-	-	
	-	-	-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



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations





WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 12th January 2015

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	14/11/14	27/11/14	-	-	-	2.2
5	Solid Particles	g/m ² /month	Continuous	1	14/11/14	27/11/14	-	-	-	2.2
	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/12/14	8.1	18.1	11.1	46.0
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/12/14	10.5	17.1	15.4	26.1
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/12/14	5.8	33.3	20.6	73.4
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	5/11/14	12/11/14	-	-	-	3070
	Oil and Grease	mg/L		1	5/11/14	12/11/14	-	-	-	<5
	Total Organic Carbon	mg/L		1	5/11/14	12/11/14	-	-	-	5
	Total Suspended Solids	mg/L		1	5/11/14	12/11/14	-	-	-	10
	pH	pH		1	5/11/14	12/11/14	-	-	-	8.36



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	-	-	-	-	-	-	-
	Bicarbonate	mg/L		-	-	-	-	-	-	-
	Calcium	mg/L		-	-	-	-	-	-	-
	Chloride	mg/L		-	-	-	-	-	-	-
	Conductivity	µs/cm		-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	Magnesium	mg/L		-	-	-	-	-	-	-
	Nitrate	mg/L		-	-	-	-	-	-	-
	Potassium	mg/L		-	-	-	-	-	-	-
	Sodium	mg/L		-	-	-	-	-	-	-
	Standing Water Level	m		-	-	-	-	-	-	-
	Sulphate	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
9	Ammonia	mg/L	Quarterly	-	-	-	-	-	-	-
	Bicarbonate	mg/L		-	-	-	-	-	-	-
	Calcium	mg/L		-	-	-	-	-	-	-
	Chloride	mg/L		-	-	-	-	-	-	-
	Conductivity	µs/cm		-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	Magnesium	mg/L		-	-	-	-	-	-	-
	Nitrate	mg/L		-	-	-	-	-	-	-
	Potassium	mg/L		-	-	-	-	-	-	-
	Sodium	mg/L		-	-	-	-	-	-	-
	Standing Water Level	m		-	-	-	-	-	-	-
	Sulphate	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
10	Ammonia	mg/L	Quarterly	-	-	-	-	-	-	-



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		-	-	-	-	-	-	-
	Calcium	mg/L		-	-	-	-	-	-	-
	Chloride	mg/L		-	-	-	-	-	-	-
	Conductivity	µs/cm		-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	Magnesium	mg/L		-	-	-	-	-	-	-
	Nitrate	mg/L		-	-	-	-	-	-	-
	Potassium	mg/L		-	-	-	-	-	-	-
	Sodium	mg/L		-	-	-	-	-	-	-
	Standing Water Level	m		-	-	-	-	-	-	-
	Sulphate	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-

Table 3 – Monitoring (Quarterly Noise – Limits Apply)

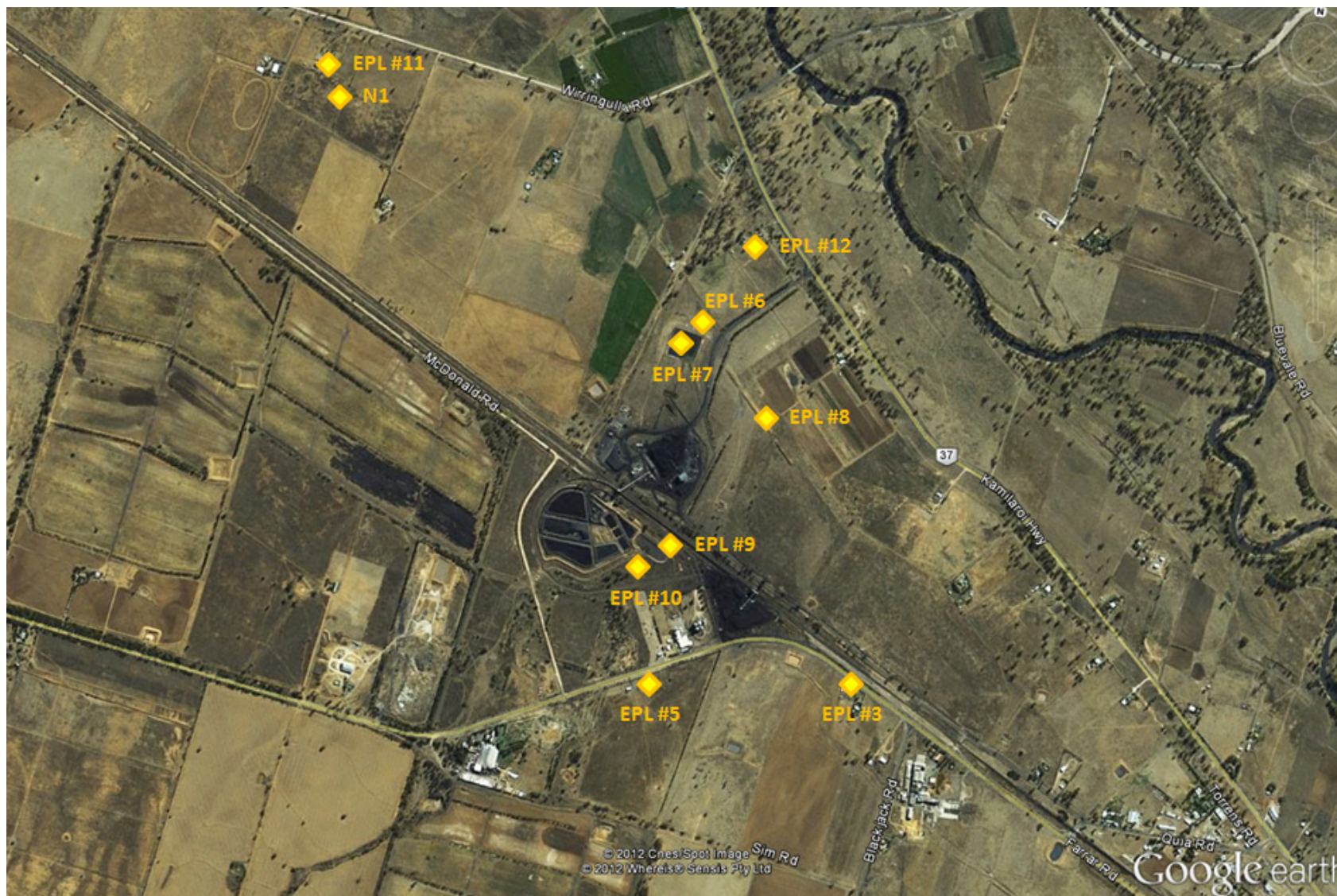
EPL ID	Date	Start Time	Measurement Period	Measured levels – All sources – dB(A)		Limit(s)	Weather (wind speed/direction)	Observations	(Potential) Non-compliance /breach
				L _{A1, 1} Minute	L _{Aeq, 15} Minute				
N1	19/11/14	-	-		-	35	-	Monitoring conducted at other non-licensed premises and results extrapolated to indicate unlikely chance of exceedances.	-
	19/11/14	-	-		-	35	-		
	19/11/14	-	-		-	35	-		
	19/11/14	-	-	-		45	-		



WHITEHAVEN COAL

WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Figure 1 – EPL 3637 Monitoring Locations



WHITEHAVEN CHPP – MONTHLY MONITORING SUMMARY

Site Information

EPL No: 3637

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33514&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 2014

Publication Date: 21st April 2015

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	16/12/14	24/12/14	-	-	-	3.2
5	Solid Particles	g/m ² /month	Continuous	1	16/12/14	24/12/14	-	-	-	28.5
	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/1/15	5.4	12.7	11.1	24.2
11	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/1/15	8.0	18.6	15.6	36.8
12	PM ₁₀	µg/m ³	Every 6 days	5	Various	12/1/15	10.7	33.8	25.6	81.7
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	0			-	-	-	
	Oil and Grease	mg/L		0			-	-	-	
	Total Organic Carbon	mg/L		0			-	-	-	
	Total Suspended Solids	mg/L		0			-	-	-	
	pH	pH		0			-	-	-	



WHITEHAVEN COAL

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	1/12/14	8/12/14	-	-	-	0.02
	Bicarbonate	mg/L		1	1/12/14	8/12/14	-	-	-	1210
	Calcium	mg/L		1	1/12/14	8/12/14	-	-	-	38
	Chloride	mg/L		1	1/12/14	8/12/14	-	-	-	1330
	Conductivity	µs/cm		1	1/12/14	8/12/14	-	-	-	7360
	Lead	mg/L		1	1/12/14	8/12/14	-	-	-	0.003
	Magnesium	mg/L		1	1/12/14	8/12/14	-	-	-	107
	Nitrate	mg/L		1	1/12/14	8/12/14	-	-	-	0.41
	Potassium	mg/L		1	1/12/14	8/12/14	-	-	-	28
	Sodium	mg/L		1	1/12/14	8/12/14	-	-	-	1420
	Standing Water Level	m		1	1/12/14	8/12/14	-	-	-	
	Sulphate	mg/L		1	1/12/14	8/12/14	-	-	-	702
	pH	pH		1	1/12/14	8/12/14	-	-	-	8.32
9	Ammonia	mg/L	Quarterly	1	1/12/14	8/12/14	-	-	-	<0.01
	Bicarbonate	mg/L		1	1/12/14	8/12/14	-	-	-	779
	Calcium	mg/L		1	1/12/14	8/12/14	-	-	-	259
	Chloride	mg/L		1	1/12/14	8/12/14	-	-	-	1180
	Conductivity	µs/cm		1	1/12/14	8/12/14	-	-	-	6050
	Lead	mg/L		1	1/12/14	8/12/14	-	-	-	>0.001
	Magnesium	mg/L		1	1/12/14	8/12/14	-	-	-	232
	Nitrate	mg/L		1	1/12/14	8/12/14	-	-	-	0.08
	Potassium	mg/L		1	1/12/14	8/12/14	-	-	-	108
	Sodium	mg/L		1	1/12/14	8/12/14	-	-	-	705
	Standing Water Level	m		1	1/12/14	8/12/14	-	-	-	
	Sulphate	mg/L		1	1/12/14	8/12/14	-	-	-	752
	pH	pH		1	1/12/14	8/12/14	-	-	-	7.66
10	Ammonia	mg/L	Quarterly	1	1/12/14	8/12/14	-	-	-	0.05

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	1/12/14	8/12/14	-	-	-	638
	Calcium	mg/L		1	1/12/14	8/12/14	-	-	-	167
	Chloride	mg/L		1	1/12/14	8/12/14	-	-	-	1360
	Conductivity	µs/cm		1	1/12/14	8/12/14	-	-	-	5910
	Lead	mg/L		1	1/12/14	8/12/14	-	-	-	0.002
	Magnesium	mg/L		1	1/12/14	8/12/14	-	-	-	203
	Nitrate	mg/L		1	1/12/14	8/12/14	-	-	-	15.1
	Potassium	mg/L		1	1/12/14	8/12/14	-	-	-	51
	Sodium	mg/L		1	1/12/14	8/12/14	-	-	-	61
	Standing Water Level	m		1	1/12/14	8/12/14	-	-	-	
	Sulphate	mg/L		1	1/12/14	8/12/14	-	-	-	284
	pH	pH		1	1/12/14	8/12/14	-	-	-	7.67

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

