

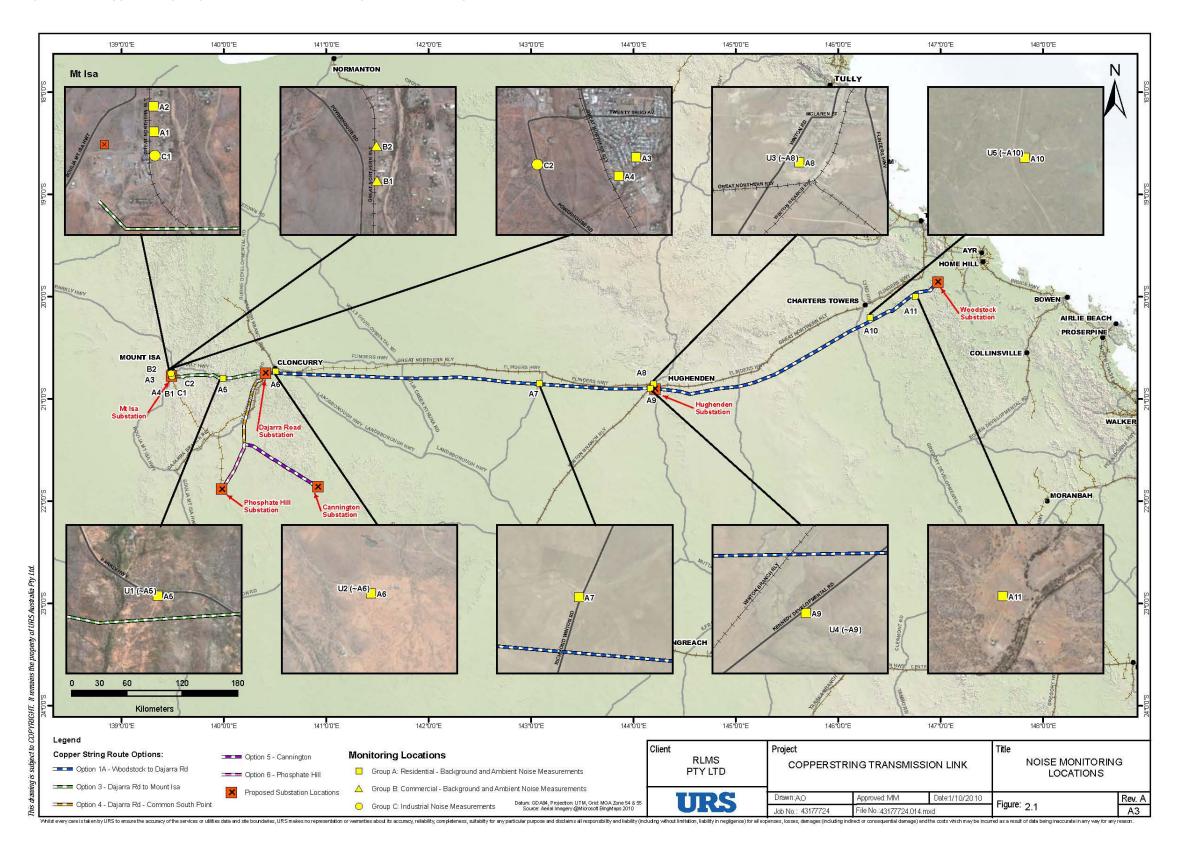
CopperString 2.0

Noise technical report data CopperString 1.0

Volume 3 Appendix W

2 Project Site and Description

Figure 2-1 Copper String Project Location Plan, Indicating Noise Monitoring Locations





43218192/NVIA/G

A

Appendix A Unattended Monitoring Results



A.1 Barkly Highway

NOISE MONITORING RESULTS: Barkly Highway, QLD												
Date	Assessment Background Level (L90), dB(A)			Ambient Noise Levels (Leq), dB(A)			L	1, dB(A	A)	L10, dB(A)		
	D	Е	N	D	Е	N	D	Е	N	D	E	N
Tuesday 31 Aug 2010	-	30	24	-	57	55	-	70	52	-	54	52
Wednesday 1 Sep 2010	33	-	-	59	-	-	73	-	-	61	-	-
Median Value	33	30	24				73	70	52	61	54	52
Logarithmic Average				59	57	55	/3	70	52	01	54	32

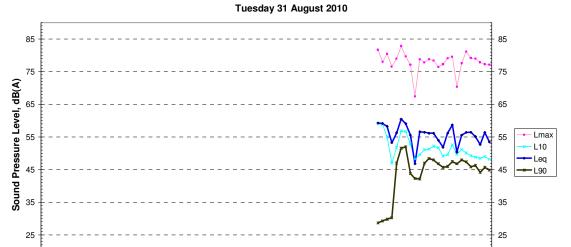
Notes:

- 6. Results of the first and last monitoring hours may be not from full monitoring periods
- 7. Where RBL is found to be less than 25 dB(A), then it is set to 25 dB(A)
- 8. Unreliable data affected by meteorological factors or extraneous noise sources were excluded from results



Daily Noise Monitoring Results

Location: Barkly Hwy, Cloncurry, QLD



Time of Day

Note

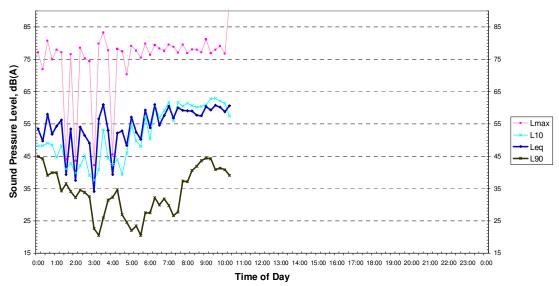
Shaded periods indicate periods affected by adverse weather conditions or extraneous Measured data during these periods were excluded from calculation of noise levels averaged for the period.

Daily Noise Monitoring Results

Location: Barkly Hwy, Cloncurry, QLD

0:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 0:00

Wednesday 1 September 2010



Note:



A.2 Cloncurry

NOISE MONITORING RESULTS: Roxmere Road, Cloncurry, QLD												
Date	Assessment Background Level (L90), dB(A)			Ambient Noise Levels (Leq), dB(A)			L	1, dB(<i>I</i>	A)	L10, dB(A)		
	D	Е	N	D	Е	N	D	E	N	D	E	N
Tuesday 31 Aug 2010	28	32	29	36	36	38	65	46	40	51	38	40
Wednesday 1 Sep 2010	37	-	-	41	-	-	60	-	-	46	-	-
Median Value	32	32	29				63	46	40	48	38	40
Logarithmic Average				39	36	38		40	40	49	30	40

Notes:

9. Time of the day: Daytime 7am - 6pmEvening 6pm - 10pmNight 10pm - 7am

10. Results of the first and last monitoring hours may be not from full monitoring periods

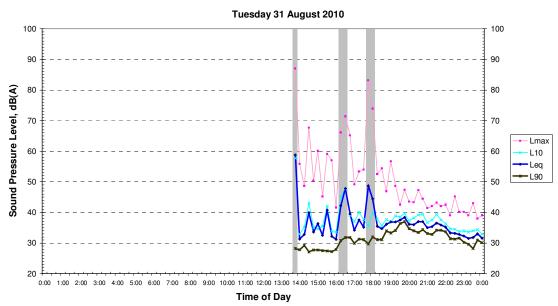
11. Where RBL is found to be less than 25 dB(A), then it is set to 25 dB(A)

12. Unreliable data affected by meteorological factors or extraneous noise sources were excluded from results



Daily Noise Monitoring Results

Location: Roxmere Road, Cloncurry, QLD



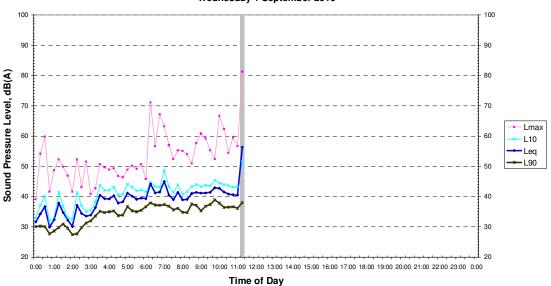
Note:

Shaded periods indicate periods affected by adverse weather conditions or extraneous Measured data during these periods were excluded from calculation of noise levels averaged for the period.

Daily Noise Monitoring Results

Location: Roxmere Road, Cloncurry, QLD

Wednesday 1 September 2010



Note:



A.3 Beaconsfield Street, Hughenden

NOISE MONITORING RESULTS: 38 Beaconsfield Street, Hughenden, QLD												
Date	Assessment Background Level (L90), dB(A)			Ambient Noise Levels (Leq), dB(A)			L	.1, dB(<i>A</i>	A)	L10, dB(A)		
	D	E	N	D	Е	N	D	Е	N	D	E	N
Thursday 2 Sept 2010	31	35	32	49	45	43	57	57	48	45	46	48
Median Value	31	35	32				57	57	48	45	40	48
Logarithmic Average				49	45	43	3/ 3/		40	45	46	40

Notes:

13. Time of the day: Daytime 7am – 6pm

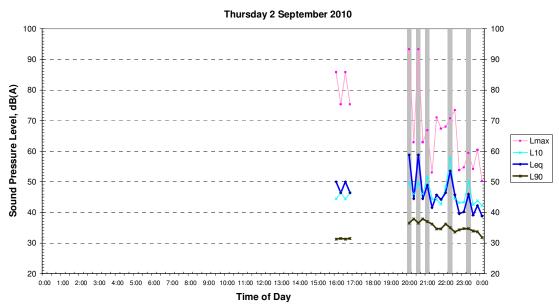
Evening 6pm - 10pmNight 10pm - 7am

- 14. Results of the first and last monitoring hours may be not from full monitoring periods
- 15. Where RBL is found to be less than 25 dB(A), then it is set to 25 dB(A)
- 16. Unreliable data affected by meteorological factors or extraneous noise sources were excluded from results



Daily Noise Monitoring Results

Location: 38 Beaconsfield Street, Hughenden, QLD



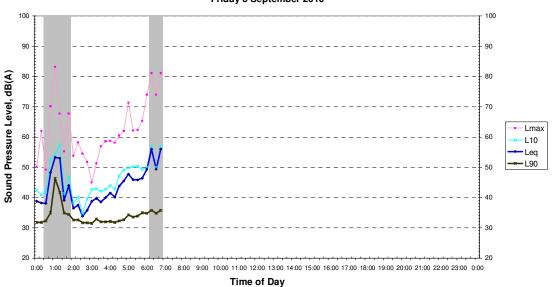
Note:

Shaded periods indicate periods affected by adverse weather conditions or extraneous Measured data during these periods were excluded from calculation of noise levels averaged for the period.

Daily Noise Monitoring Results

Location: 38 Beaconsfield Street, Hughenden, QLD

Friday 3 September 2010



Note:



A.4 Kennedy Developmental Road, Hughenden

NOISE MONITORING RESULTS: Roxmere Road, Cloncurry, QLD												
Date	Assessment Background Level (L90), dB(A)			Ambient Noise Levels (Leq), dB(A)			L	1, dB(<i>A</i>	A)	L10, dB(A)		
	D	Е	N	D	E	N	D	E	N	D	E	N
Wednesday 1 Sep 2010	-	38	26	-	43	37	-	58	40	-	45	40
Thursday 2 Sep 2010	19	43	24	44	48	39	49	51	44	44	50	44
Median Value	19	41	25				49	54	42	44	47	42
Logarithmic Average				44	46	38	49	56	43	44	48	43

Notes:

 $\begin{array}{lll} \mbox{17. Time of the day:} & \mbox{Daytime} & 7am-6pm \\ \mbox{Evening} & 6pm-10pm \\ \mbox{Night} & 10pm-7am \end{array}$

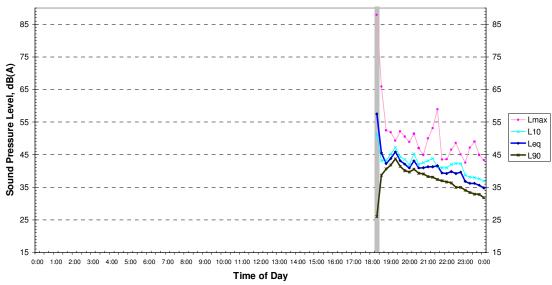
- 18. Results of the first and last monitoring hours may be not from full monitoring periods
- 19. Where RBL is found to be less than 25 dB(A), then it is set to 25 dB(A)
- 20. Unreliable data affected by meteorological factors or extraneous noise sources were excluded from results



Daily Noise Monitoring Results

Location: CS0052 Kennedy Developmental Road, Hughenden, QLD

Wednesday 1 September 2010



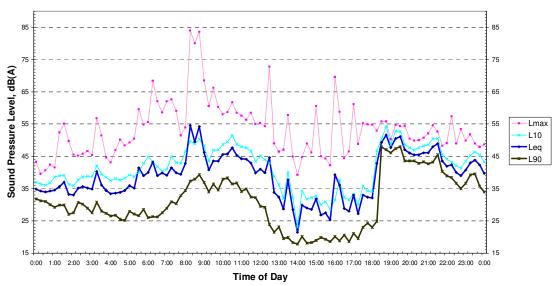
Note:

Shaded periods indicate periods affected by adverse weather conditions or extraneous Measured data during these periods were excluded from calculation of noise levels averaged for the period.

Daily Noise Monitoring Results

Location: CS0052 Kennedy Developmental Road, Hughenden, QLD

Thursday 2 September 2010

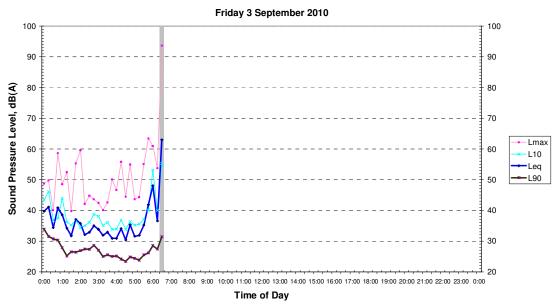


Note:



Daily Noise Monitoring Results

Location: CS0052 Kennedy Developmental Road, Hughenden, QLD



Note:

A.5 Mountain View Road, Charters Towers

NOISE MONITORING RESULTS: Mountain View Road, Charters Towers, QLD												
Date	Assessment Background Level (L90), dB(A)			Ambient Noise Levels (Leq), dB(A)			L	1, dB(<i>I</i>	A)	L10, dB(A)		
	D	Е	N	D	E	N	D	E	N	D	E	N
Friday 3 Sep 2010	34	24	19	43	33	30	56	46	37	46	35	37
Saturday 4 Sep 2010	25	-	-	45	-	-	58	-	-	47	-	-
Median Value	29	24	19				57	46	37	47	35	37
Logarithmic Average				44	33	30	37	40	31			31

Notes:

21. Time of the day: Daytime 7am - 6pm Evening 6pm - 10pm Night 10pm - 7am

22. Results of the first and last monitoring hours may be not from full monitoring periods

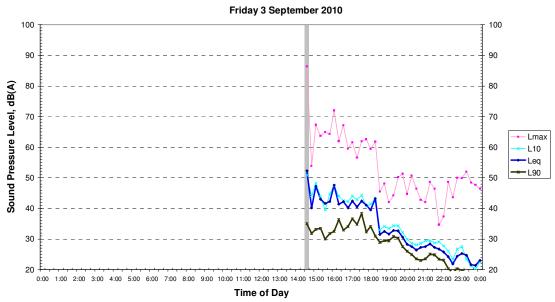
23. Where RBL is found to be less than 25 dB(A), then it is set to 25 dB(A)

24. Unreliable data affected by meteorological factors or extraneous noise sources were excluded from results



Daily Noise Monitoring Results

Location: Mountain View Road, Charters Towers, QLD



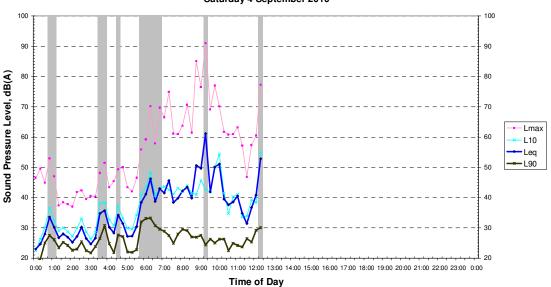
Note

Shaded periods indicate periods affected by adverse weather conditions or extraneous Measured data during these periods were excluded from calculation of noise levels averaged for the period.

Daily Noise Monitoring Results

Location: Mountain View Road, Charters Towers, QLD

Saturday 4 September 2010



Note:



Appendix B Attended Monitoring Results



Type of	Zone	Location	Background Noise Levels L90, dB(A)			Ambient Noise Levels Leq, dB(A)			L10, dB(A)			L1, dB(A)		
Measur.			D	E	N	D	E	N	D	E	N	D	E	N
		A1: 132-138 Mica Creek Rd, Mica Creek – Mt Isa	56	56	-	60	58	-	58	58	-	68	61	-
		A2: 118-120 Mica Creek Rd, Mica Creek – Mt Isa	45	-	31	49	-	33	50		34	57	-	36
ents	Mt Isa	A3: 4 Topaz Street, Happy Valley – Mt Isa	44	45	39	50	49	41	52	50	41	59	55	44
Measurem		A4: 7 Southdown Avenue, Happy Valley – Mt Isa	42	38	39	53	45	47	51	48	48	61	52	57
ent Noise	Barkly Hwy	A5: CS0125 – Barkly Hwy. 60 km east of Mt Isa	28	30	-	34	58	-	35	58	-	40	71	-
and Ambi	Background and Ambient Noise Measurements Cloncurry Richmond Hughenden	A6: Roxmere Rd, Cloncurry	29	-	-	35	-	-	37	-	-	43	-	-
ackground		A7: CS0074 – Windsor Rd, Richmond	17	-	-	30	-	-	30	-	-	39	-	-
dential – B		A8: 38 Beaconsfield St, Hughenden	31	38	34	45	44	45	46	45	42	56	52	52
Resid	Hughenden	A9: CS0052 - Kennedy Developmental Road, Hughenden	18	-	-	25	-	-	29	-	-	35	-	-
	Charters	A10: Mountain View Road, Charters Towers	33	-	-	41	-	-	45	-	-	49	-	-
	Towers	A11: CS0009 - Burdekin Falls Dam Road, Charters Towers	27	-	-	36	-	-	38	-	-	47	-	-
Commercial – Background and Ambient Noise Measurements	Mt Isa	B1: 82-84 Mica Creek Road. 1200 m from Mica Creek Power Station	-	35	-		38	-	-	40	-	-	44	-
Comm Backgrc Ambier Measur	ivit 13a	B2: Mica Creek Road. 1600 m from Mica Creek Power Station	-	37	-		40	-	-	47	-	-	54	-
Industrial Noise Measurements	Mt loo	C1: 50 m away from Mica Creek Power Station	64	-	-	65	-	=	67	=	-	68	-	-
Industri: Measur	Mt Isa	C2: 100 m away from noise source on Powerhouse Road	61	-	-	63	-	-	65	-	-	66	-	-

Notes:

- Monitoring locations are shown in Figure 1.
- These are actual measured noise levels. Noise levels shown in the report include relevant corrections and assumptions.

