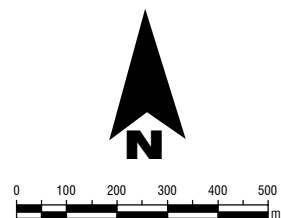
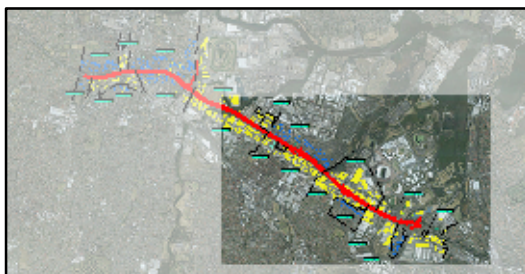


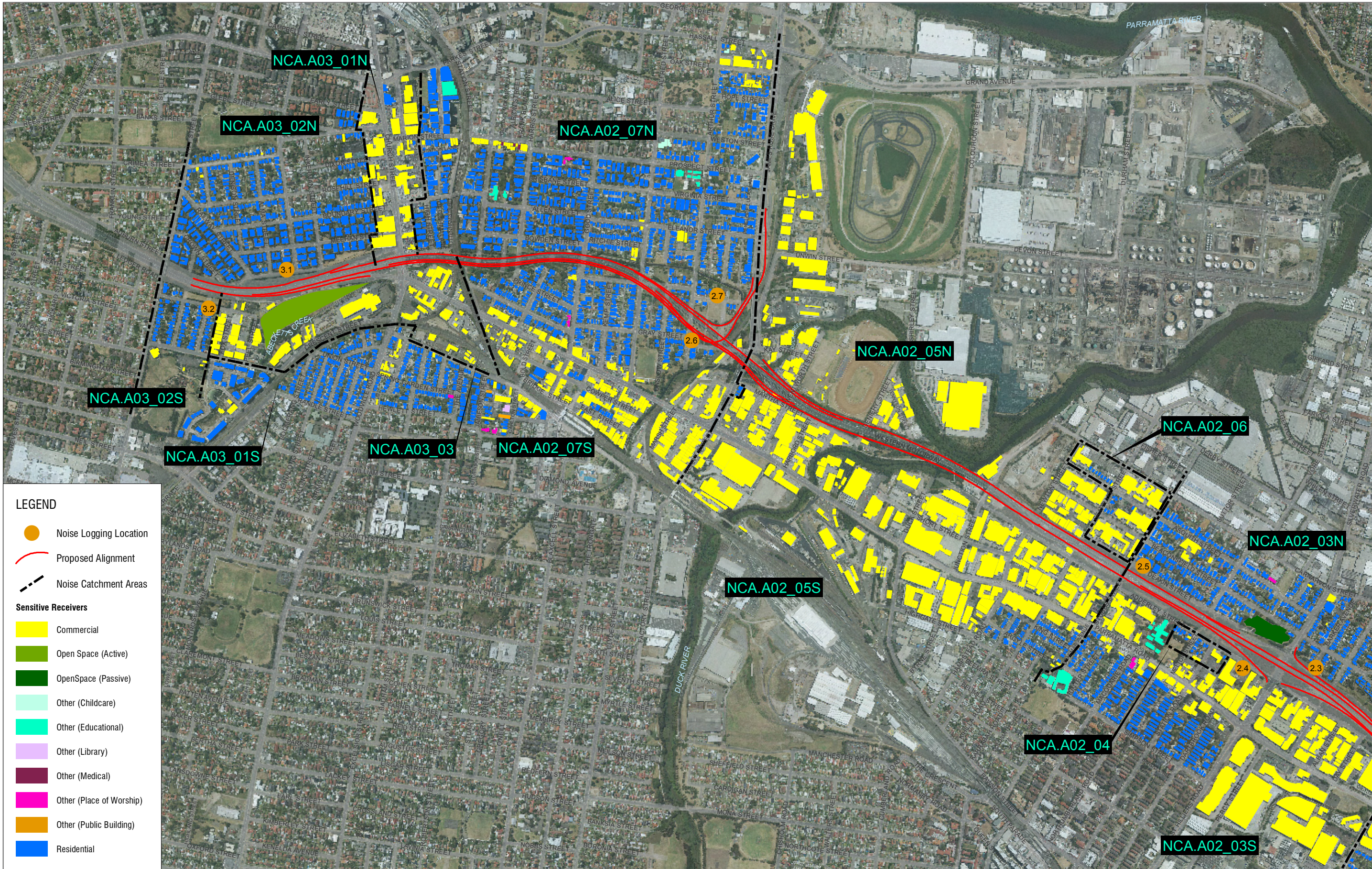
Appendix B

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Noise Catchment Areas and Sensitive Receivers





LEGEND

- Noise Logging Location
- Proposed Alignment
- Noise Catchment Areas

Sensitive Receivers

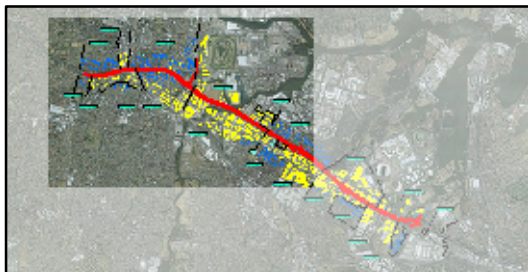
- Commercial
- Open Space (Active)
- OpenSpace (Passive)
- Other (Childcare)
- Other (Educational)
- Other (Library)
- Other (Medical)
- Other (Place of Worship)
- Other (Public Building)
- Residential



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Project No.: 610.12109
Date: 09/10/2014
Drawn by: NT
Scale: 1:15,000
Sheet Size: A3
Projection: GDA 1994 MGA Zone 56



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Roads and Maritime Services

WestConnex M4 Widening
Noise and Vibration
Impact Assessment

Noise Catchment Areas
and Sensitive Receivers

Appendix C-A1

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A1 Ambient Noise Monitoring Results

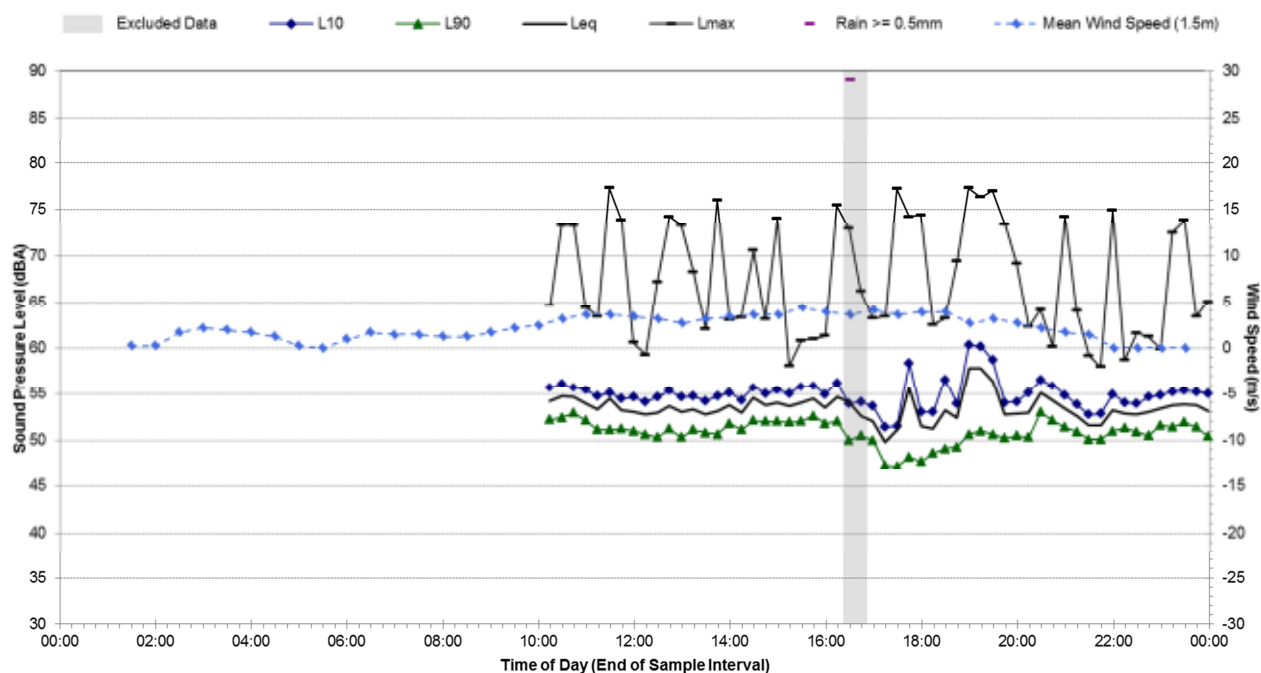
Noise Monitoring Location:		A1.2		Map of Noise Monitoring Location 
Noise Monitoring Address:		6 Welfare Street, Homebush		
Logger Device Type: Svantek 957 Logger Serial No: 20673				
Ambient noise logger deployed outside residential address 6 Welfare Street, Homebush. Logger located in front balcony on north-west corner of house.				
Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Parramatta Road to the south, Homebush Bay Drive to the west, and the M4 to the north. Near continuous tyre-pavement noise from light-vehicle traffic on surrounding roads was observed at this location with traffic noise from heavy vehicle movements on surrounding roads audible several times during the attended monitoring period.				
Recorded Noise Levels (L _{Amax}): M4 Light-vehicle road traffic: typically ~50 dBA, M4 Heavy-vehicle road traffic: 51-54 dBA, Parramatta Rd. Light-vehicle road traffic: 50-54 dBA, Parramatta Rd. Heavy-vehicle road traffic: 54-65 dBA, Homebush Bay Dr road traffic: typically <53 dBA				
Ambient Noise Logging Results – ICNG Defined Time Periods				
Monitoring Period	Noise Level (dBA)			
	RBL	L_{Aeq}	L₁₀	L₁
Daytime	50	56	56	61
Evening	50	55	55	59
Night-time	48	54	55	58
Ambient Noise Logging Results – RNP Defined Time Periods				
Monitoring Period	Noise Level (dBA)			
	Weekday L_{Aeq}(Period)	Weekend L_{Aeq}(Period)	Weekly L_{Aeq}(Period)	
Number of Valid Days	8	3	N/A (7 Day Average)	
Daytime (7am-10pm)	55	56	56	
Night-time (10pm-7am)	53	56	54	
Attended Noise Measurement Results				
Date	Start Time	Measured Noise Level (dBA)		
		L_{A90}	L_{Aeq}	L_{Amax}
13/02/2013	09:48	51	53	65

Photo of Noise Monitoring Location 	
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A1 Ambient Noise Monitoring Results

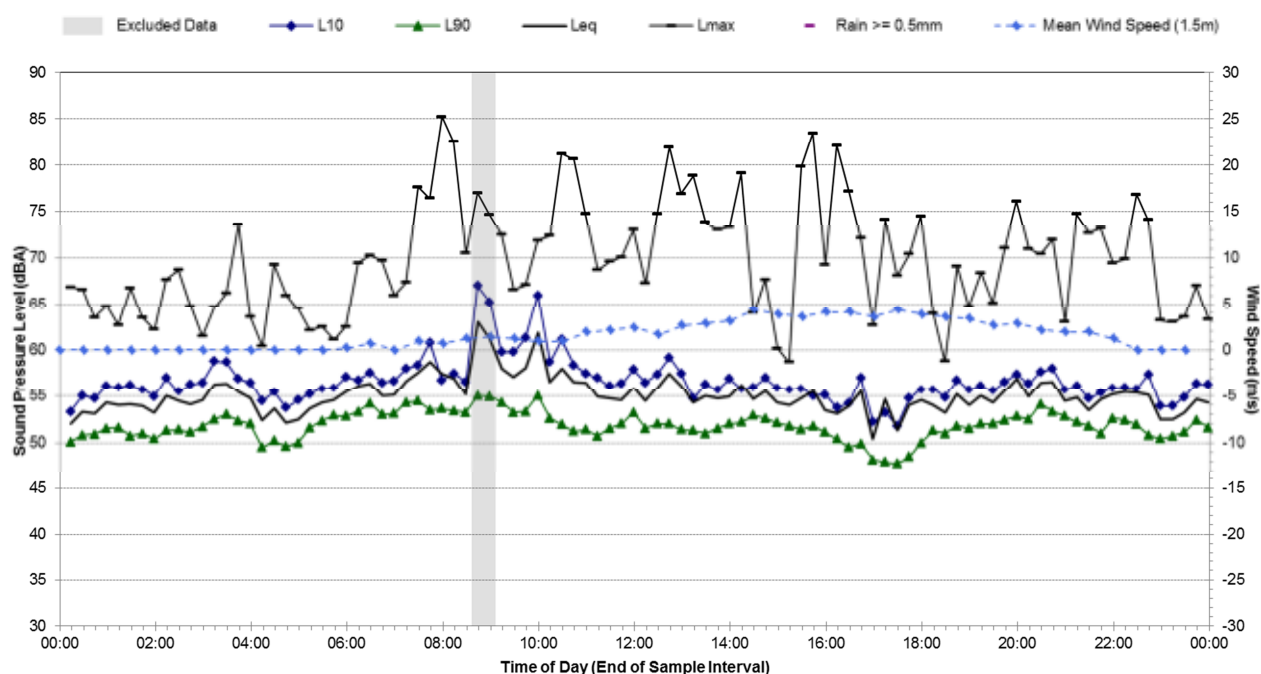
Statistical Ambient Noise Levels

A1.2 - Wednesday, 13 February 2013



Statistical Ambient Noise Levels

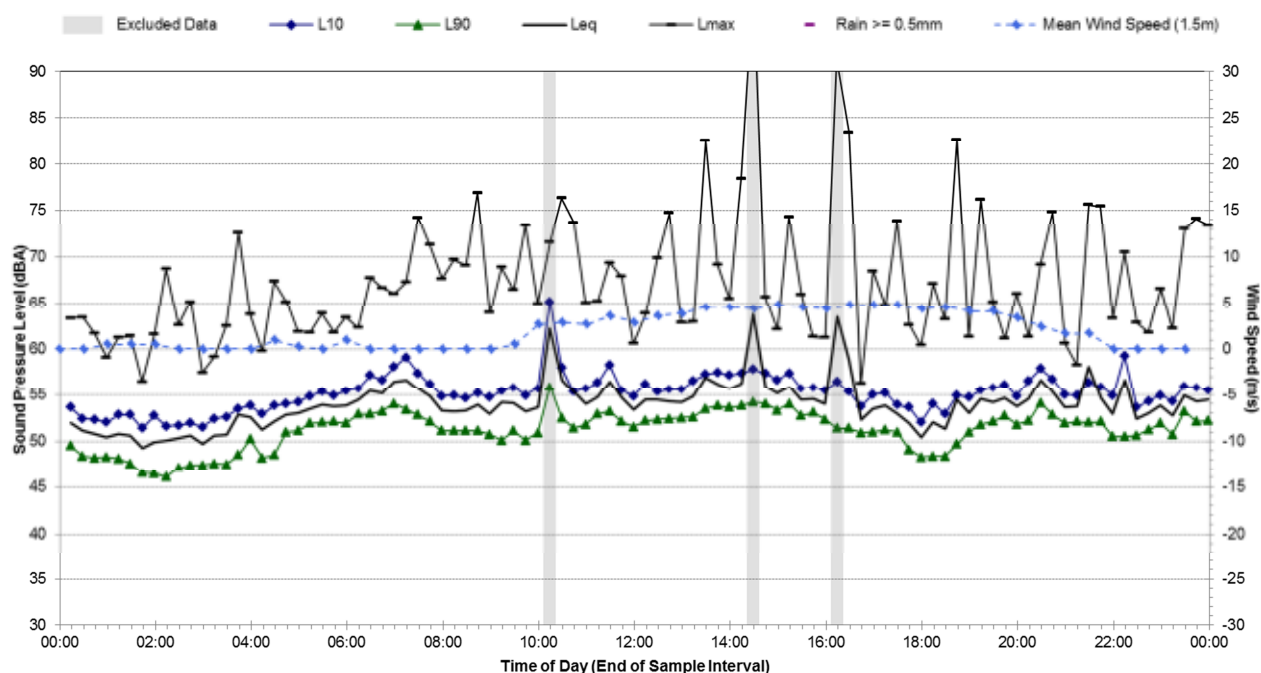
A1.2 - Thursday, 14 February 2013



A1 Ambient Noise Monitoring Results

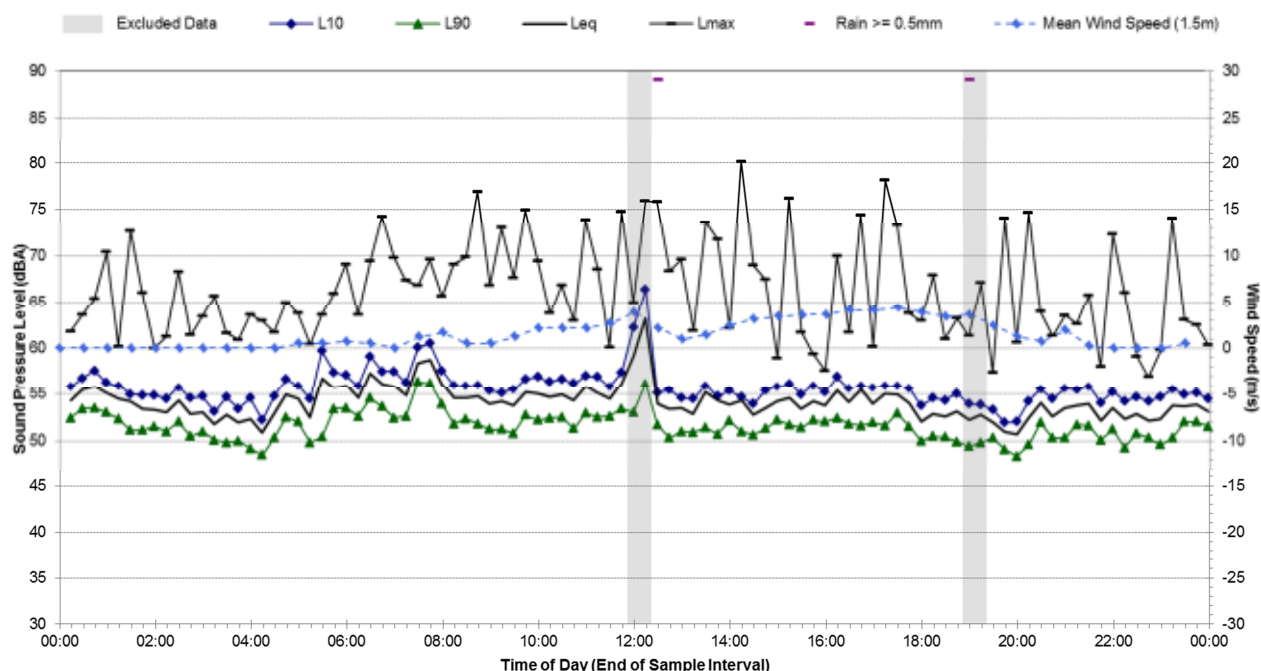
Statistical Ambient Noise Levels

A1.2 - Friday, 15 February 2013



Statistical Ambient Noise Levels

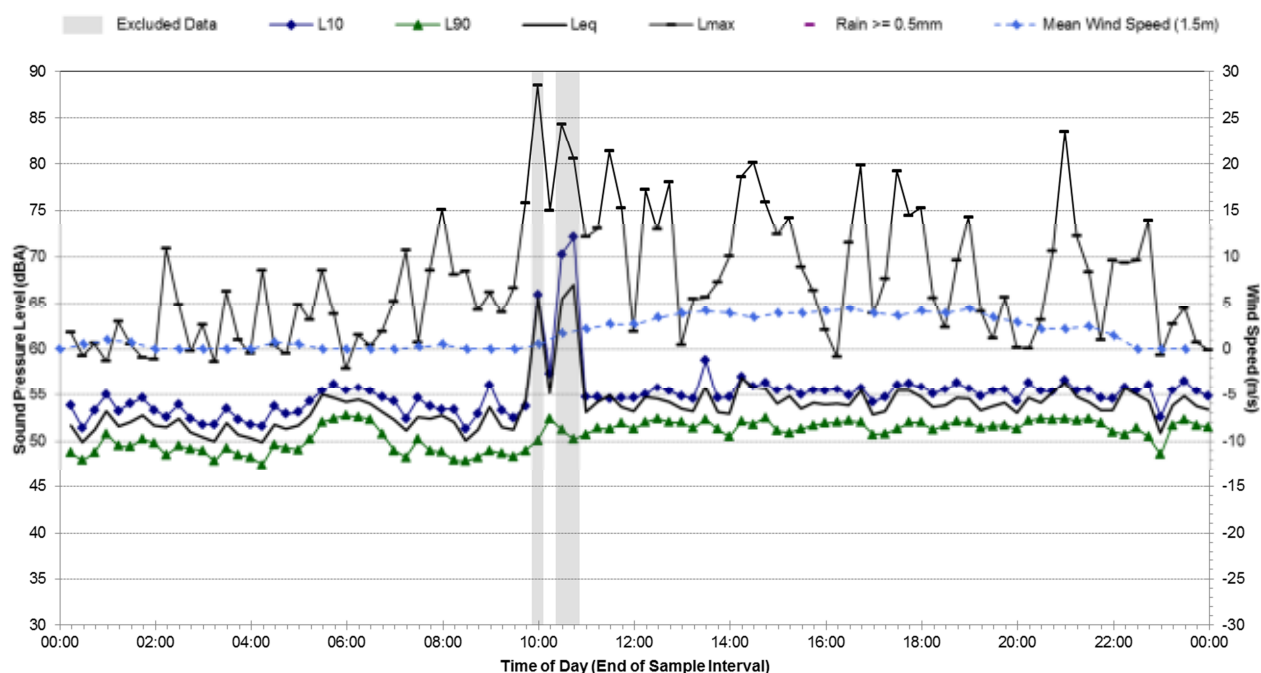
A1.2 - Saturday, 16 February 2013



A1 Ambient Noise Monitoring Results

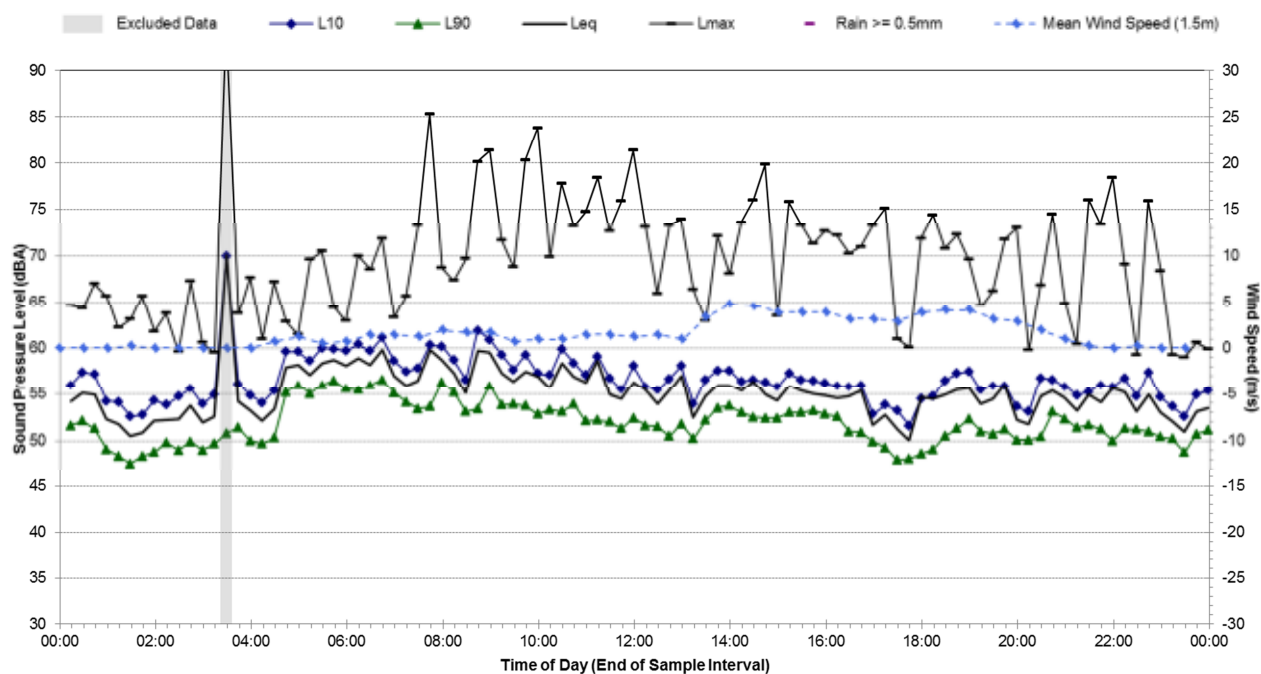
Statistical Ambient Noise Levels

A1.2 - Sunday, 17 February 2013



Statistical Ambient Noise Levels

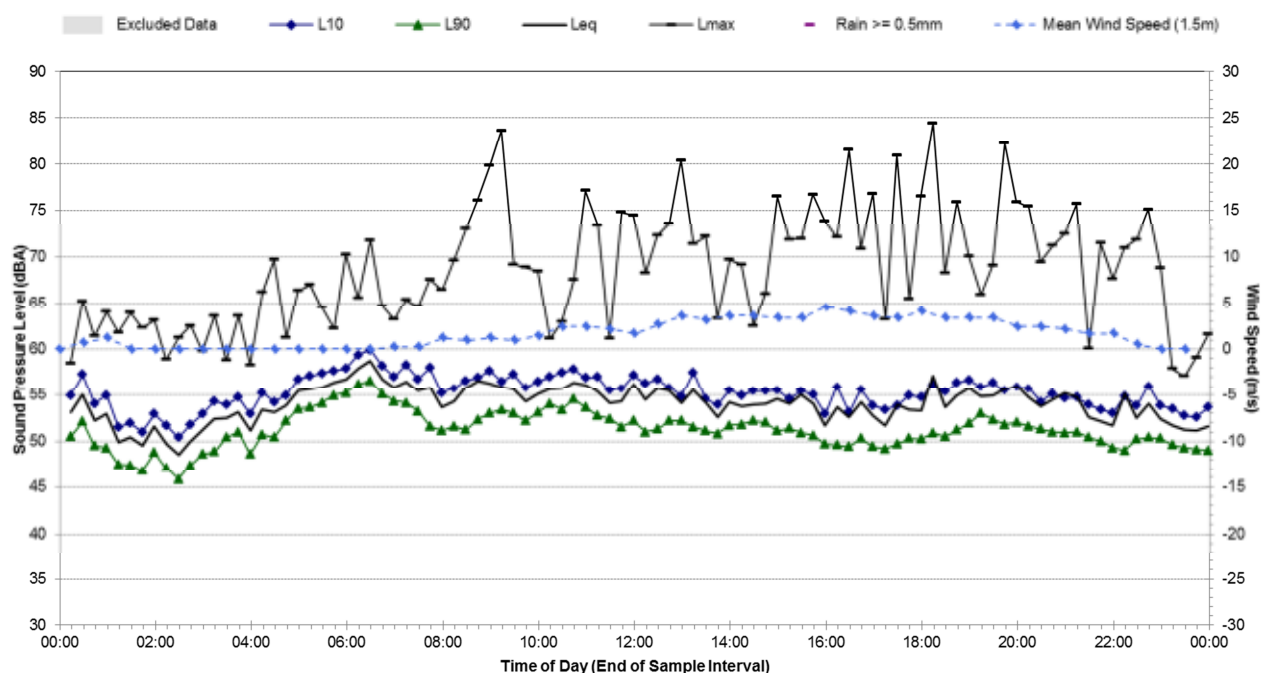
A1.2 - Monday, 18 February 2013



A1 Ambient Noise Monitoring Results

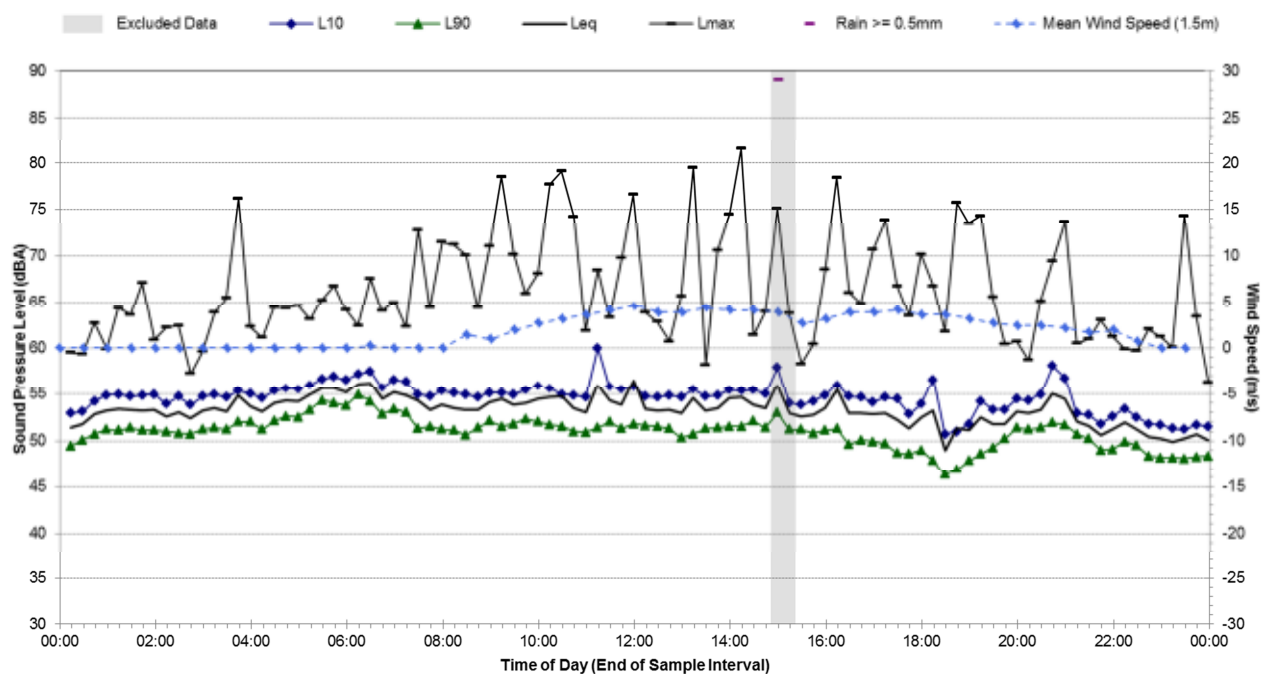
Statistical Ambient Noise Levels

A1.2 - Tuesday, 19 February 2013



Statistical Ambient Noise Levels

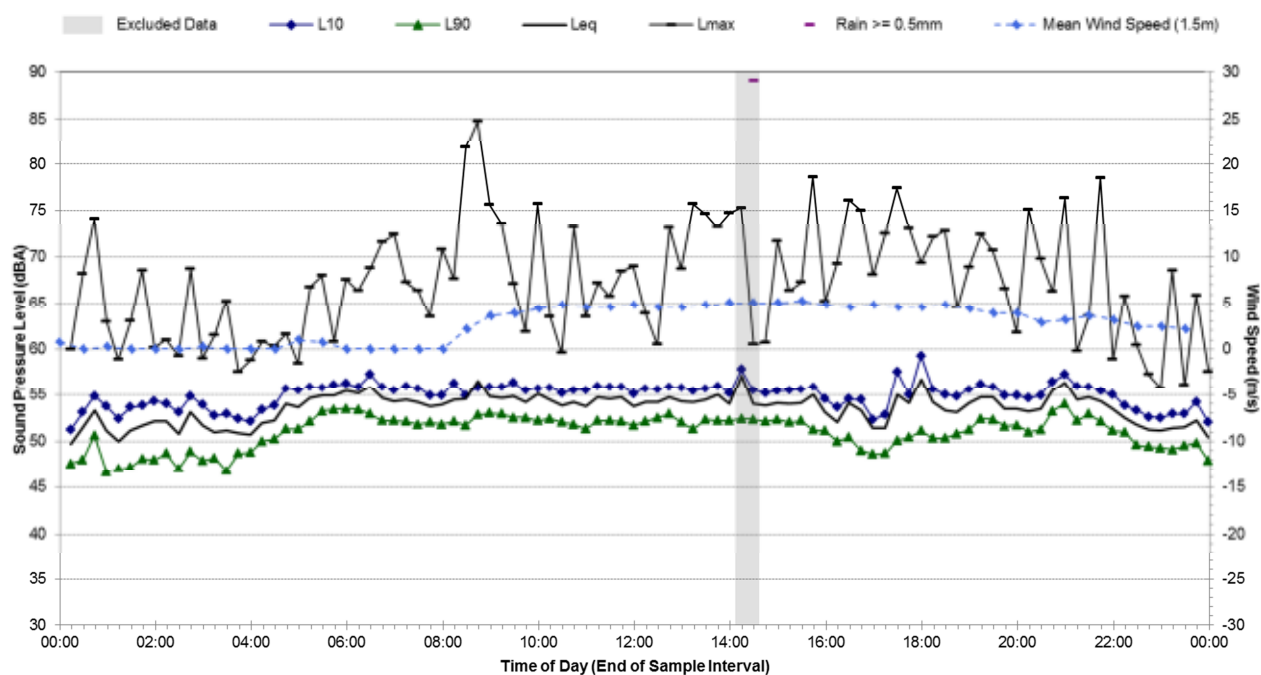
A1.2 - Wednesday, 20 February 2013



A1 Ambient Noise Monitoring Results

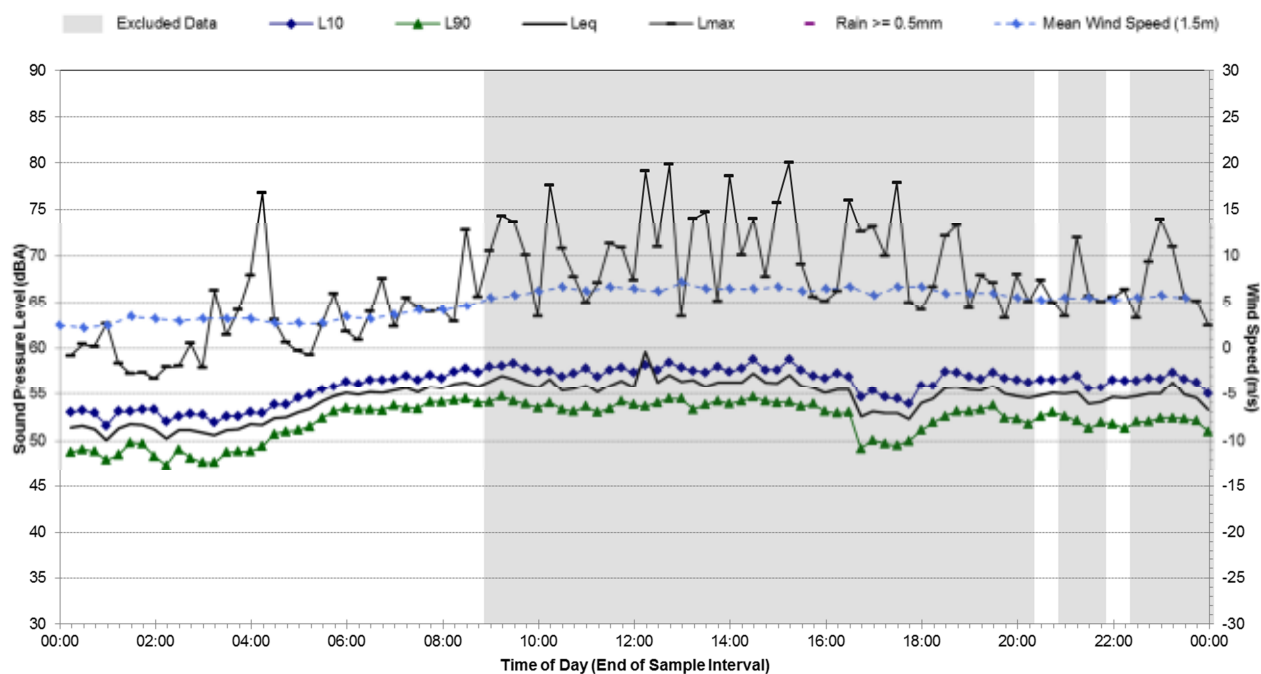
Statistical Ambient Noise Levels

A1.2 - Thursday, 21 February 2013



Statistical Ambient Noise Levels

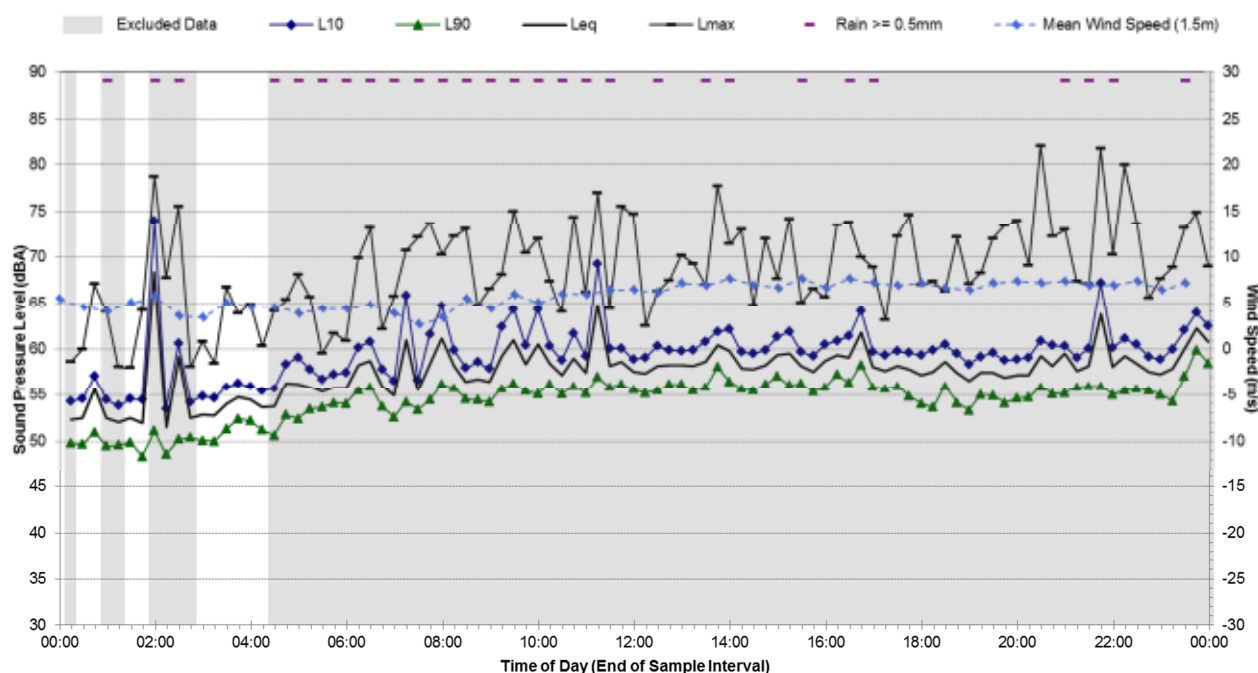
A1.2 - Friday, 22 February 2013



A1 Ambient Noise Monitoring Results

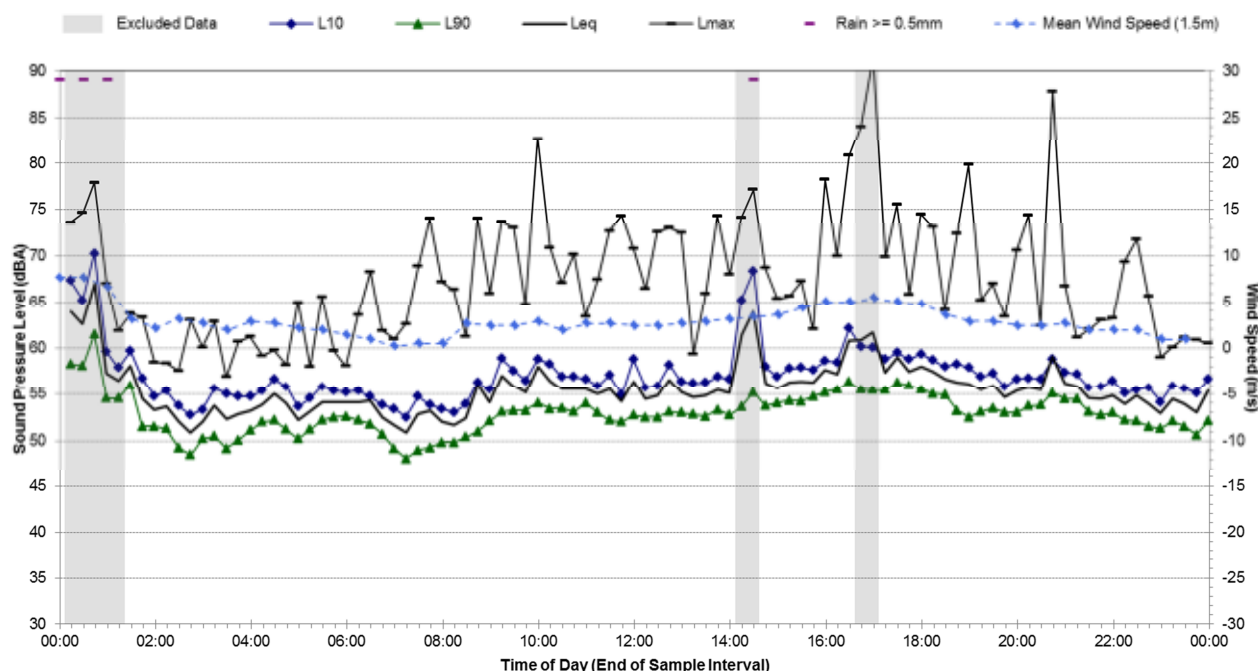
Statistical Ambient Noise Levels

A1.2 - Saturday, 23 February 2013



Statistical Ambient Noise Levels

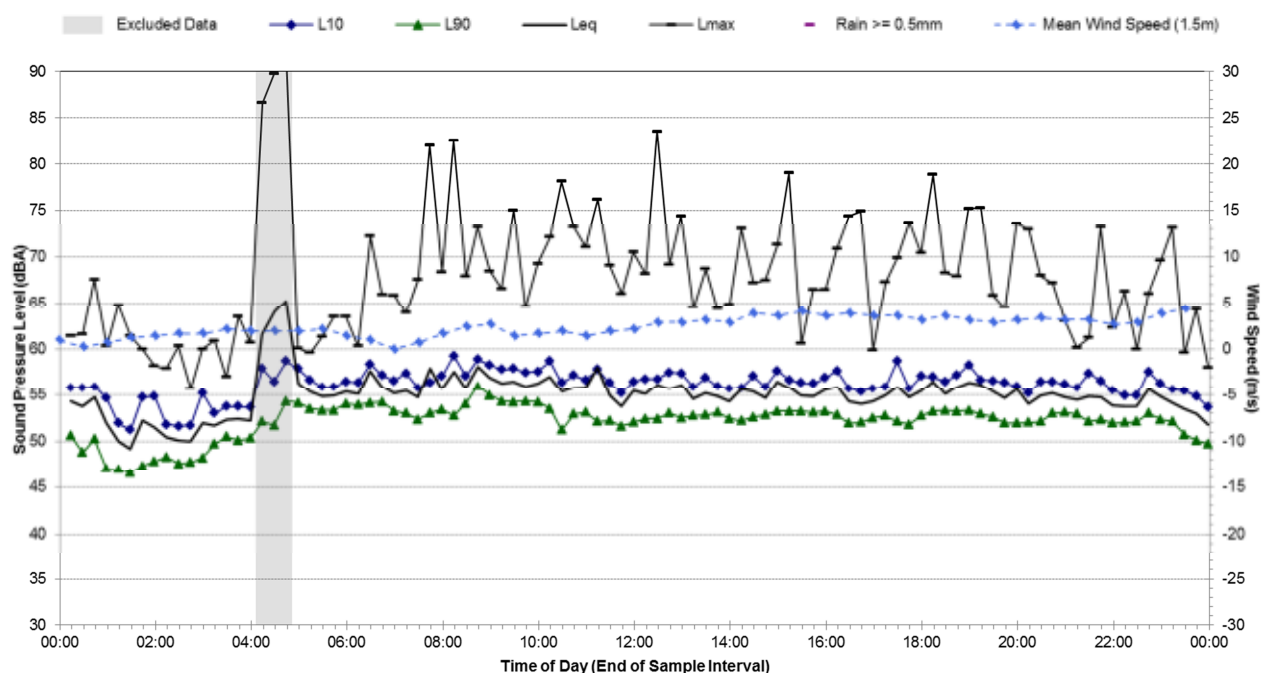
A1.2 - Sunday, 24 February 2013



A1 Ambient Noise Monitoring Results

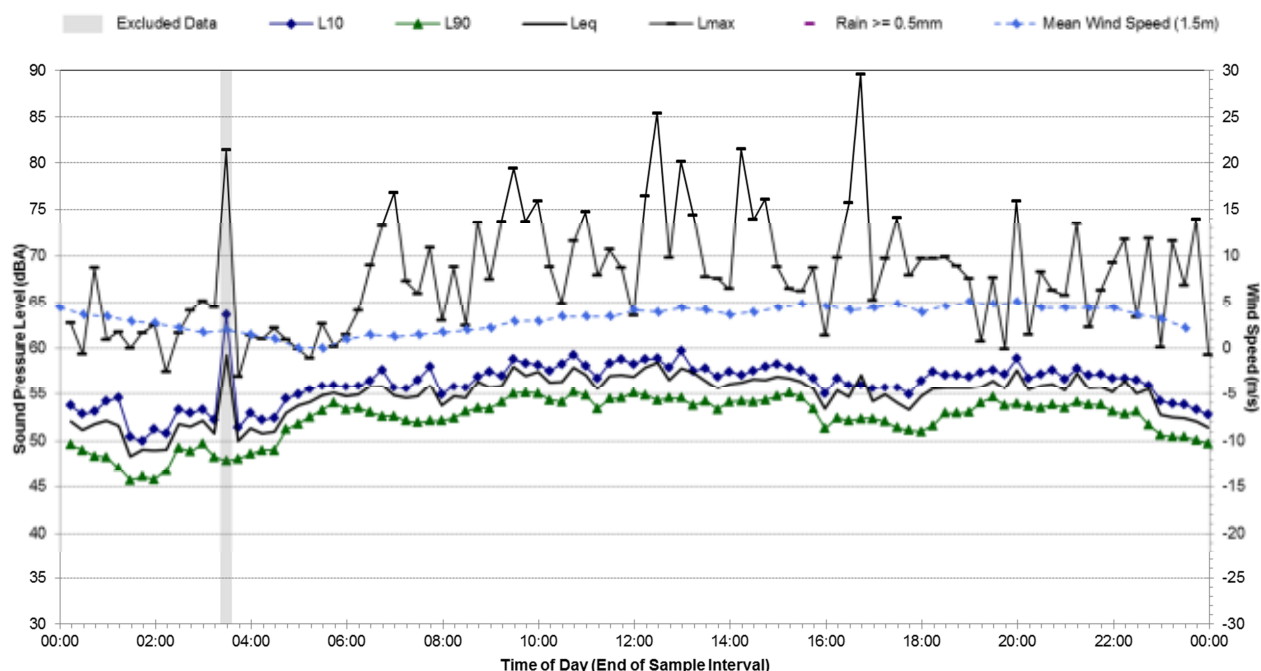
Statistical Ambient Noise Levels

A1.2 - Monday, 25 February 2013



Statistical Ambient Noise Levels

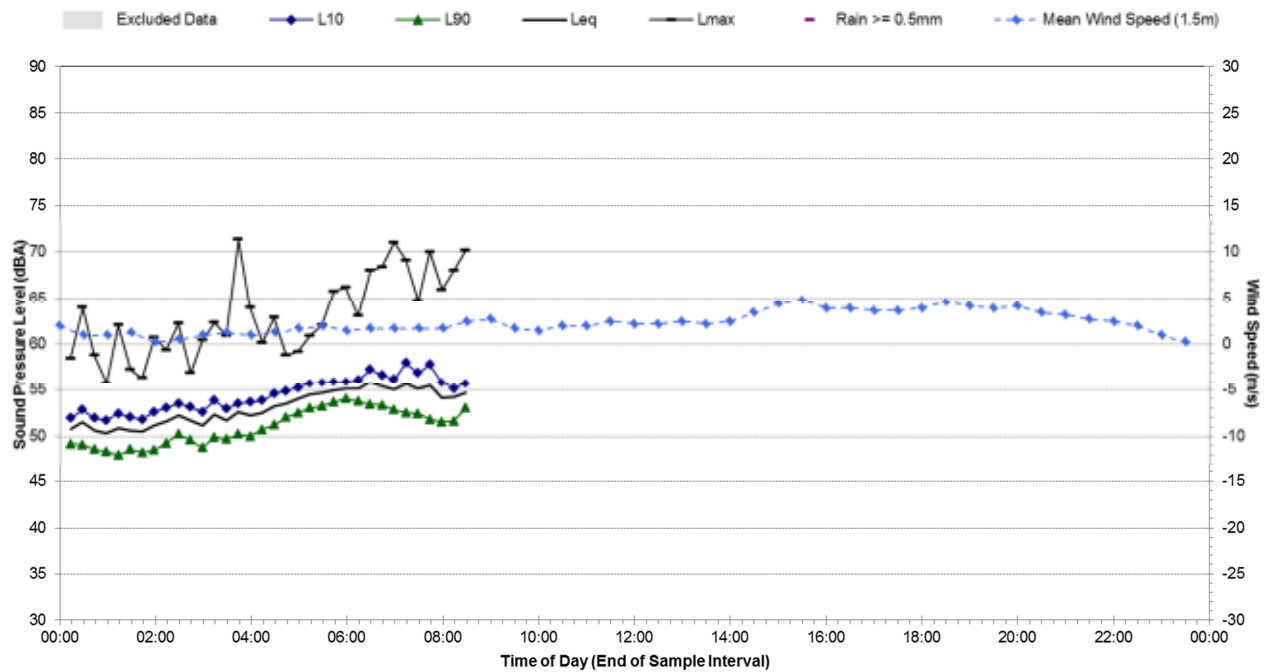
A1.2 - Tuesday, 26 February 2013



A1 Ambient Noise Monitoring Results

Statistical Ambient Noise Levels

A1.2 - Wednesday, 27 February 2013



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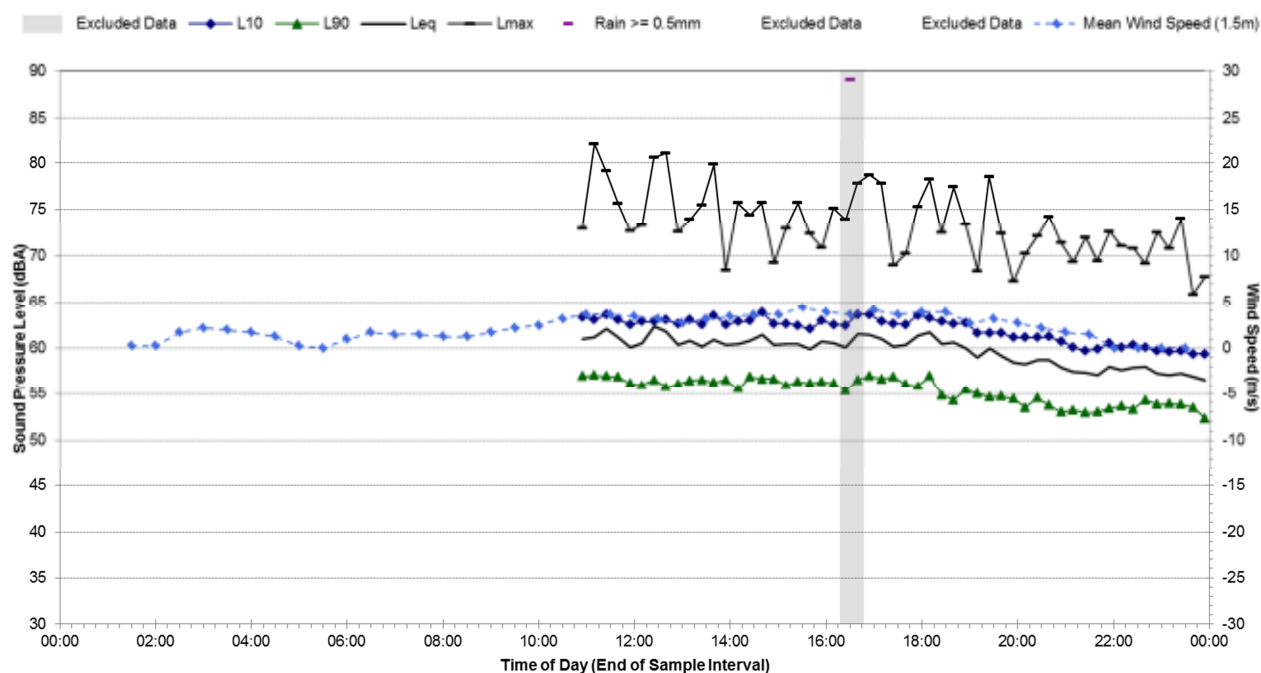
A1 Ambient Noise Monitoring Results

Noise Monitoring Location:		A1.3		Map of Noise Monitoring Location 
Noise Monitoring Address:		3 Courallie Avenue, Homebush West		
Logger Device Type: Svantek 957 Logger Serial No: 23241				
Ambient noise logger deployed at rear of residential address 3 Courallie Avenue, Homebush West. Logger located in northern corner of back yard.				
Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Parramatta Road (located to the north between the monitoring location and the M4 motorway) during the daytime. Near continuous tyre-pavement noise from light-vehicle traffic on surrounding roads was observed at this location with discrete traffic noise from heavy vehicle movements on Parramatta Road occurring often during the attended monitoring period. Traffic noise from vehicles on the M4 was not discernible above other road traffic noise during the attended monitoring period.				
Recorded Noise Levels (LAmax): Parramatta Rd. Light-vehicle road traffic: 55-60 dBA, Parramatta Rd. Heavy-vehicle road traffic: 62-68 dBA, Parramatta Rd. Motorbike road traffic: 62 dBA				
Ambient Noise Logging Results – ICNG Defined Time Periods				
Monitoring Period	Noise Level (dBA)			
	RBL	LAeq	L10	L1
Daytime	56	61	63	67
Evening	54	60	61	66
Night-time	50	58	59	65
Ambient Noise Logging Results – RNP Defined Time Periods				
Monitoring Period	Noise Level (dBA)			
	Weekday LAeq(Period)	Weekend LAeq(Period)	Weekly LAeq(Period)	
Number of Valid Days	8	3	N/A (7 Day Average)	
Daytime (7am-10pm)	61	60	61	
Night-time (10pm-7am)	58	58	58	
Attended Noise Measurement Results				
Date	Start Time	Measured Noise Level (dBA)		
		LA90	LAeq	LAmax
13/02/2013	10:29	56	60	68
				
		Photo of Noise Monitoring Location		

A1 Ambient Noise Monitoring Results

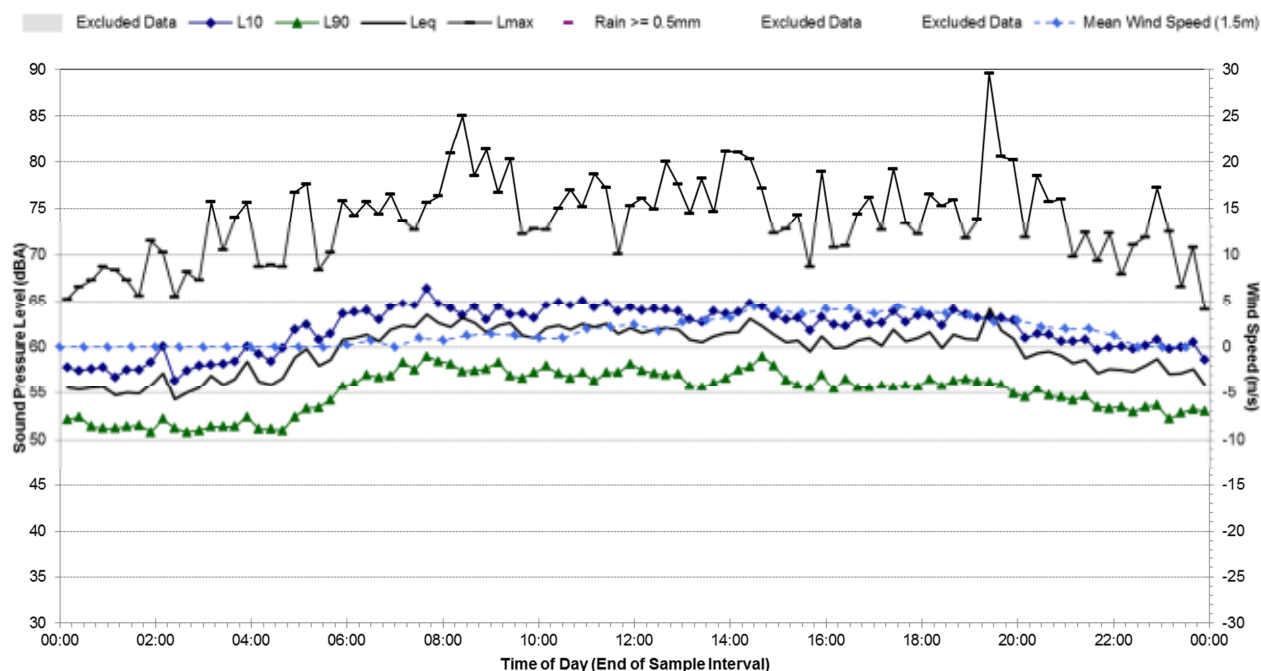
Statistical Ambient Noise Levels

A1.3 - Wednesday, 13 February 2013



Statistical Ambient Noise Levels

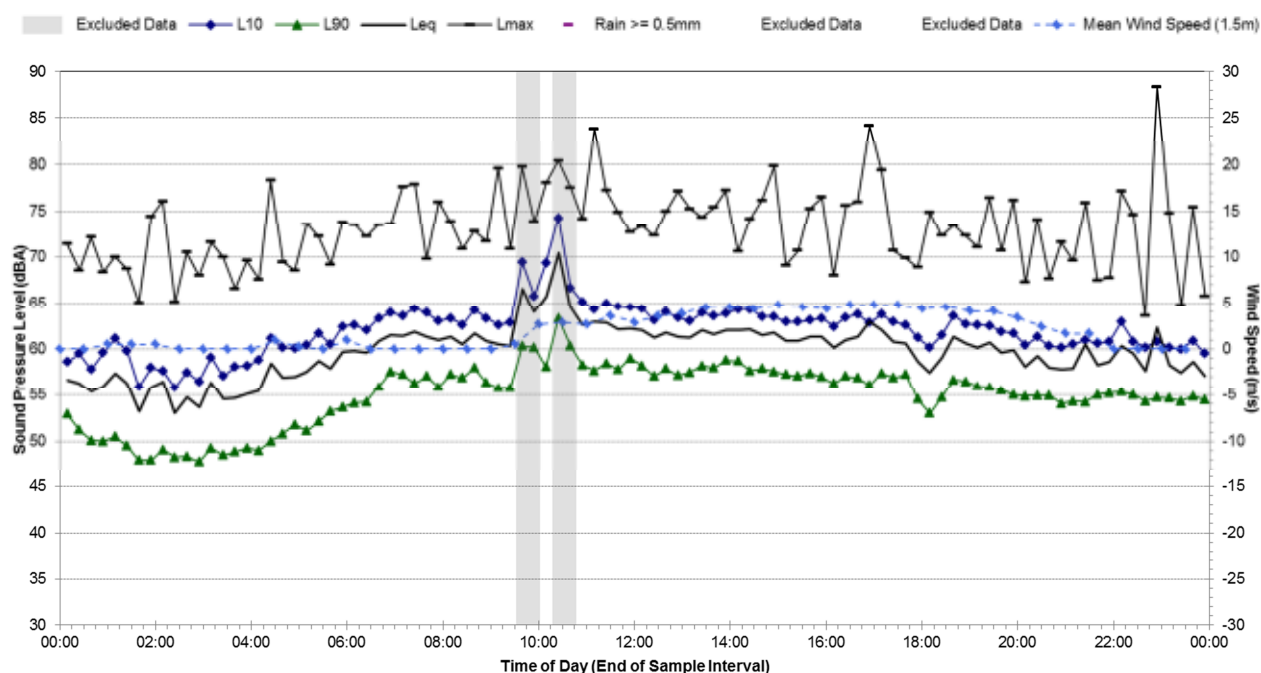
A1.3 - Thursday, 14 February 2013



A1 Ambient Noise Monitoring Results

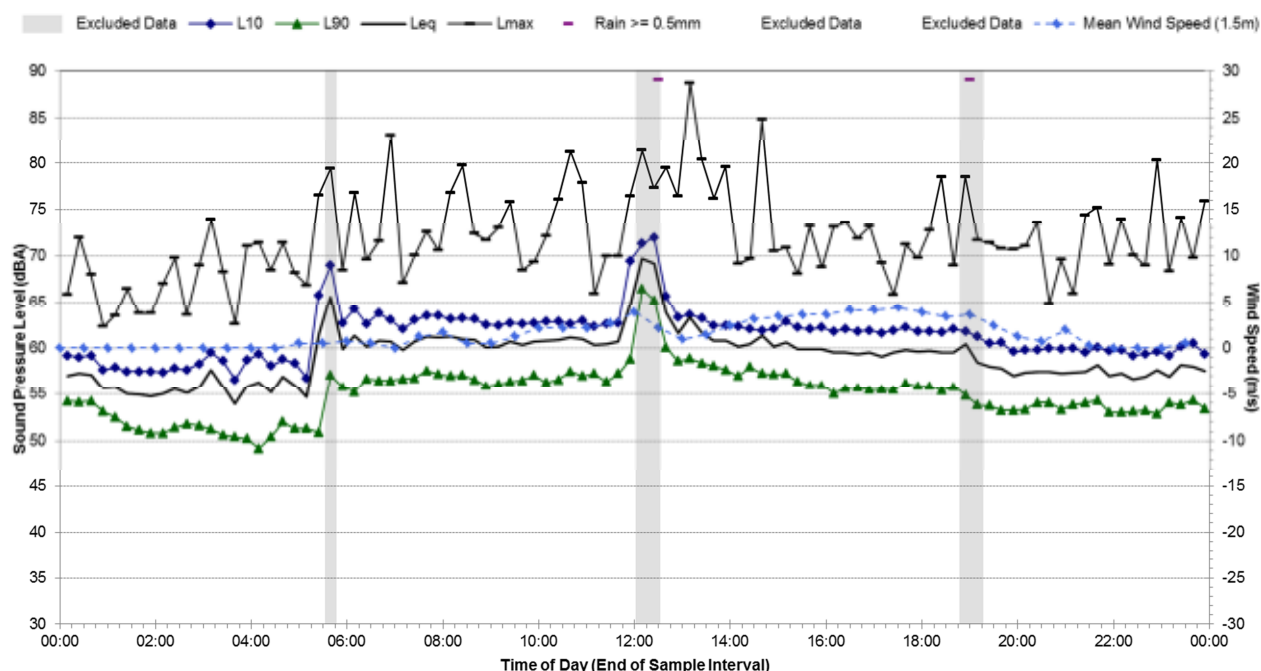
Statistical Ambient Noise Levels

A1.3 - Friday, 15 February 2013



Statistical Ambient Noise Levels

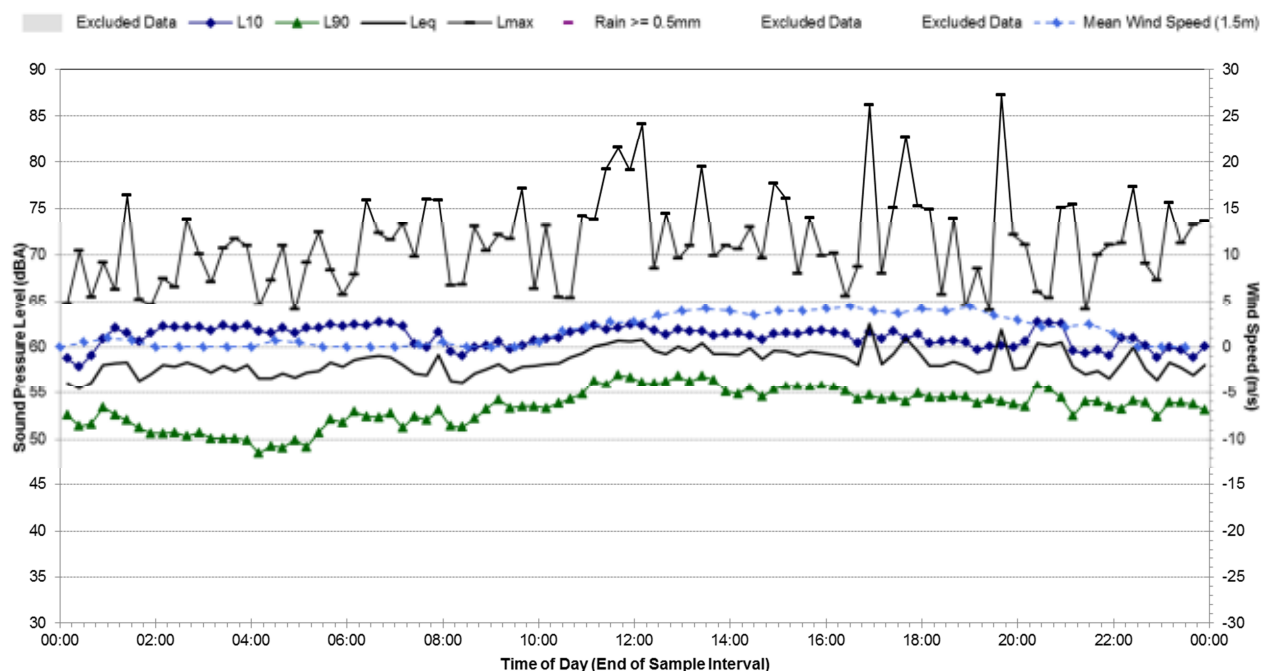
A1.3 - Saturday, 16 February 2013



A1 Ambient Noise Monitoring Results

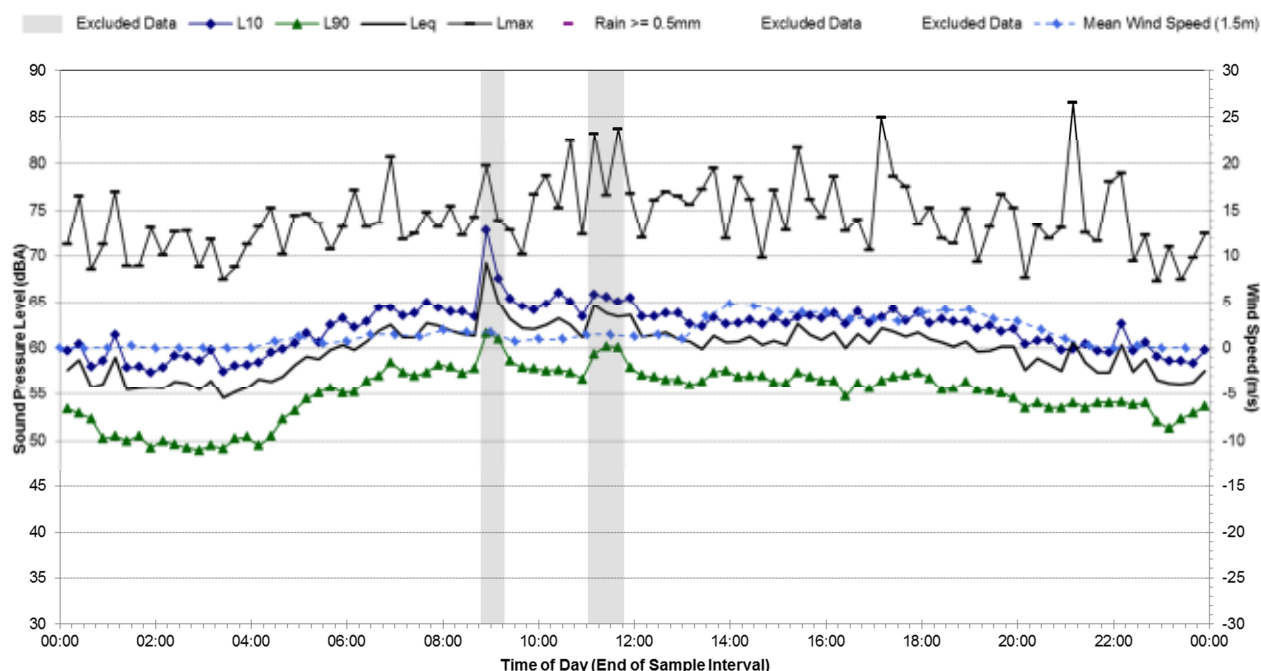
Statistical Ambient Noise Levels

A1.3 - Sunday, 17 February 2013



Statistical Ambient Noise Levels

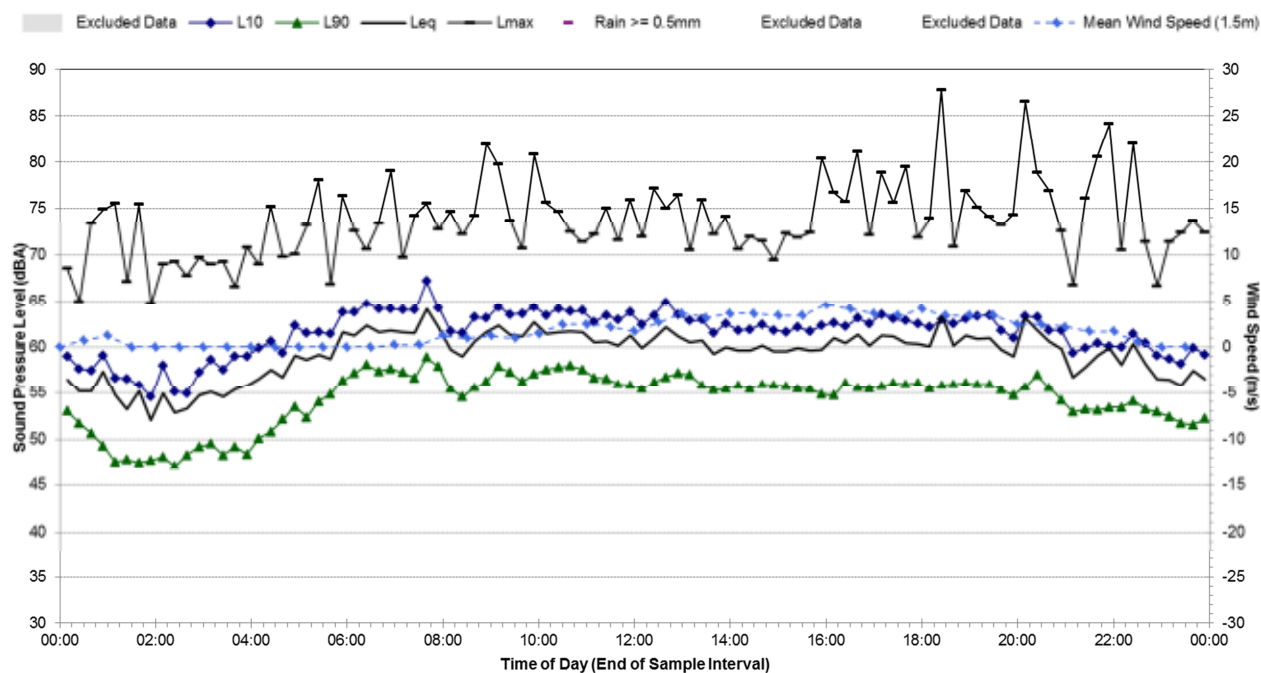
A1.3 - Monday, 18 February 2013



A1 Ambient Noise Monitoring Results

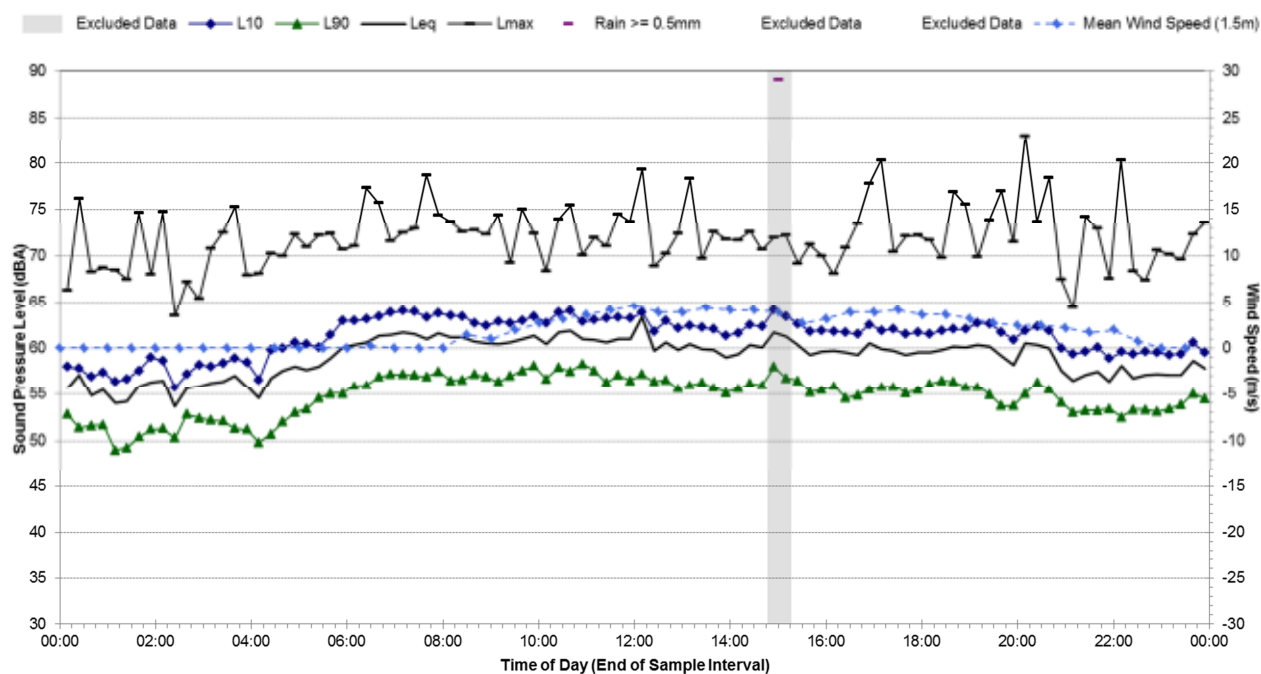
Statistical Ambient Noise Levels

A1.3 - Tuesday, 19 February 2013



Statistical Ambient Noise Levels

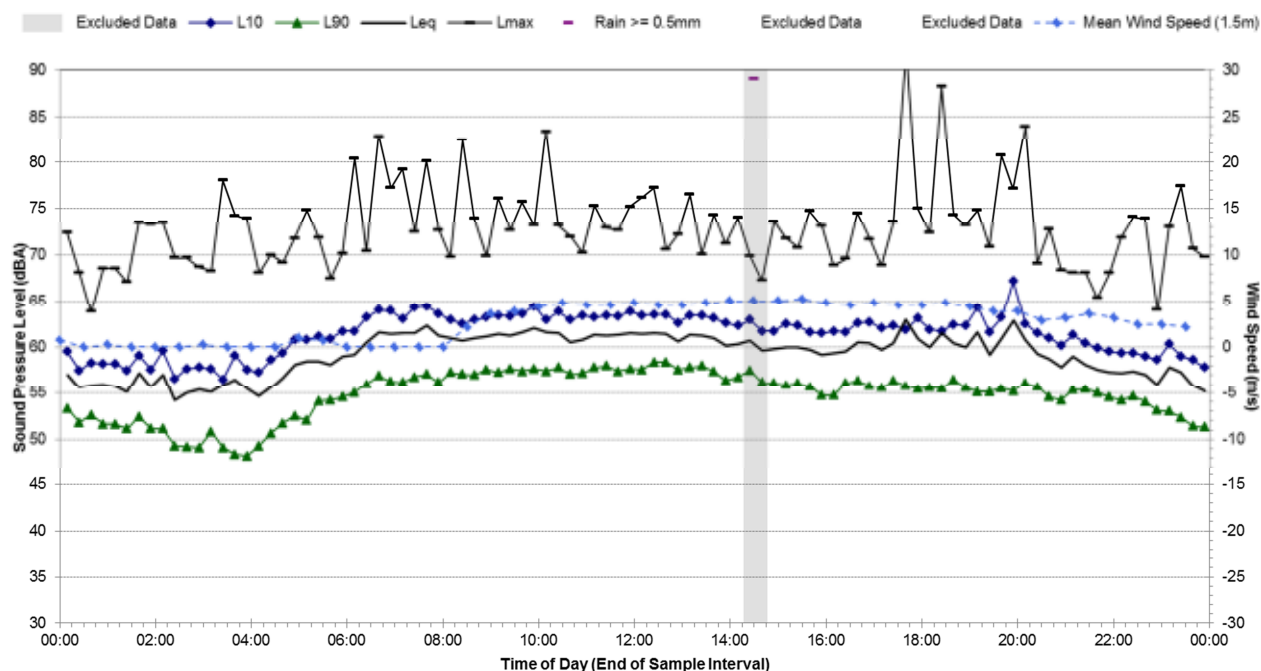
A1.3 - Wednesday, 20 February 2013



A1 Ambient Noise Monitoring Results

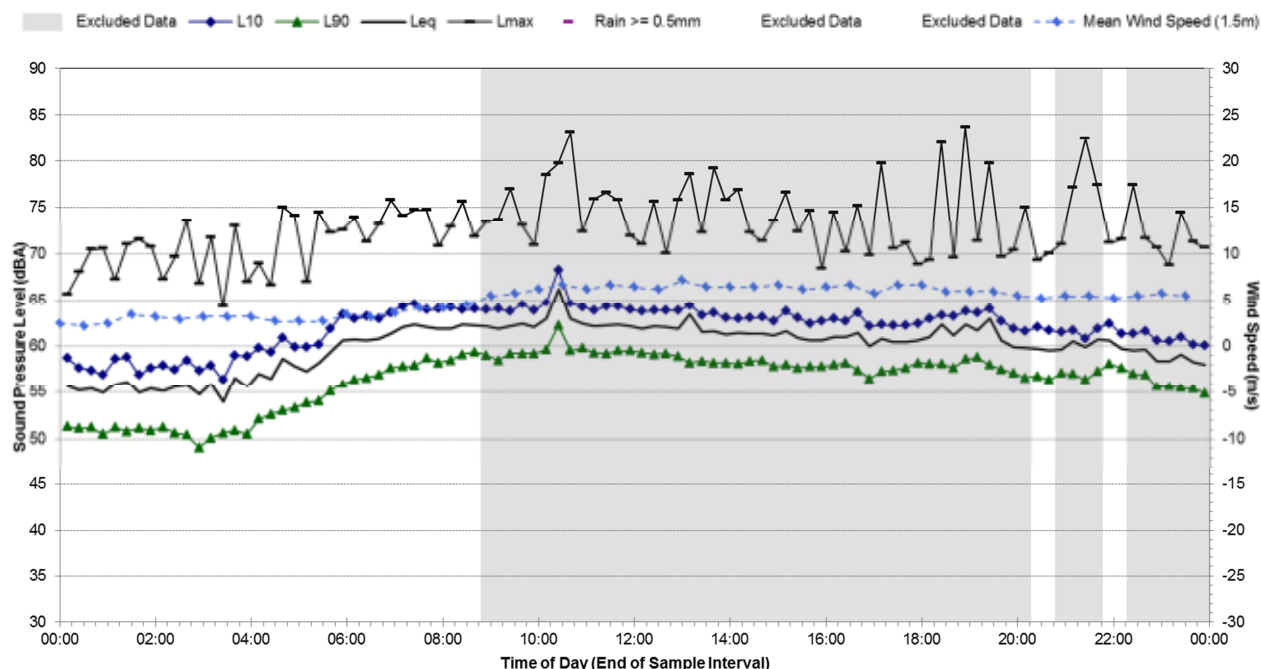
Statistical Ambient Noise Levels

A1.3 - Thursday, 21 February 2013



Statistical Ambient Noise Levels

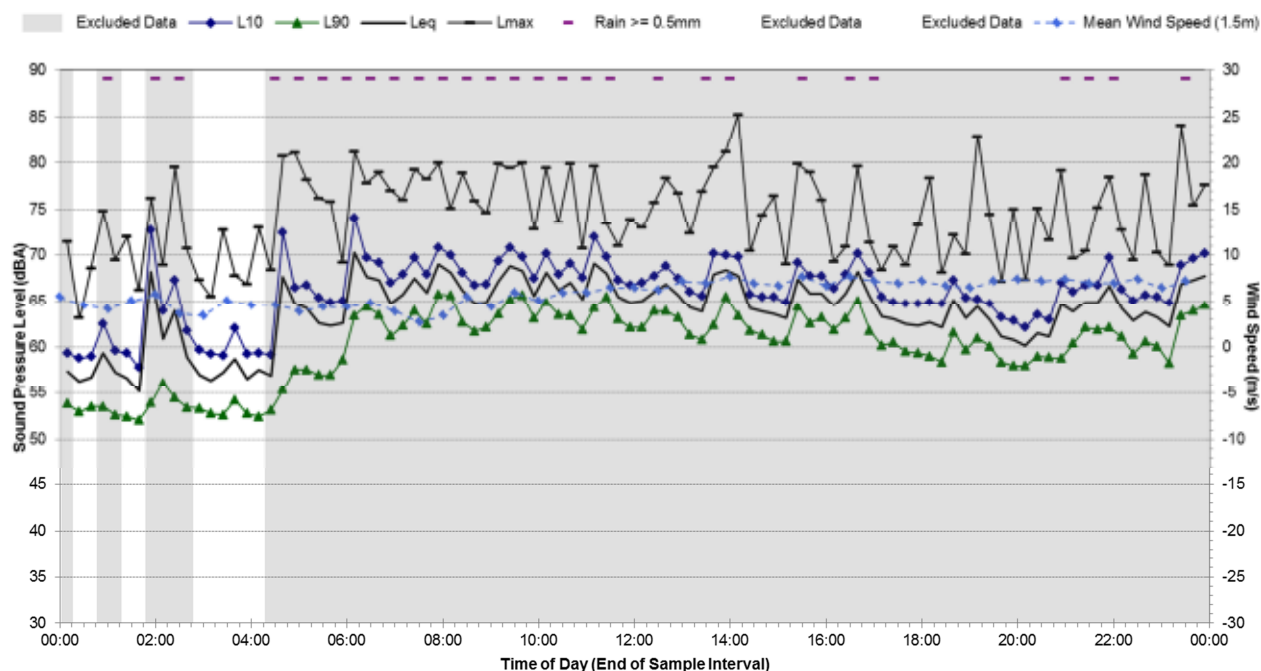
A1.3 - Friday, 22 February 2013



A1 Ambient Noise Monitoring Results

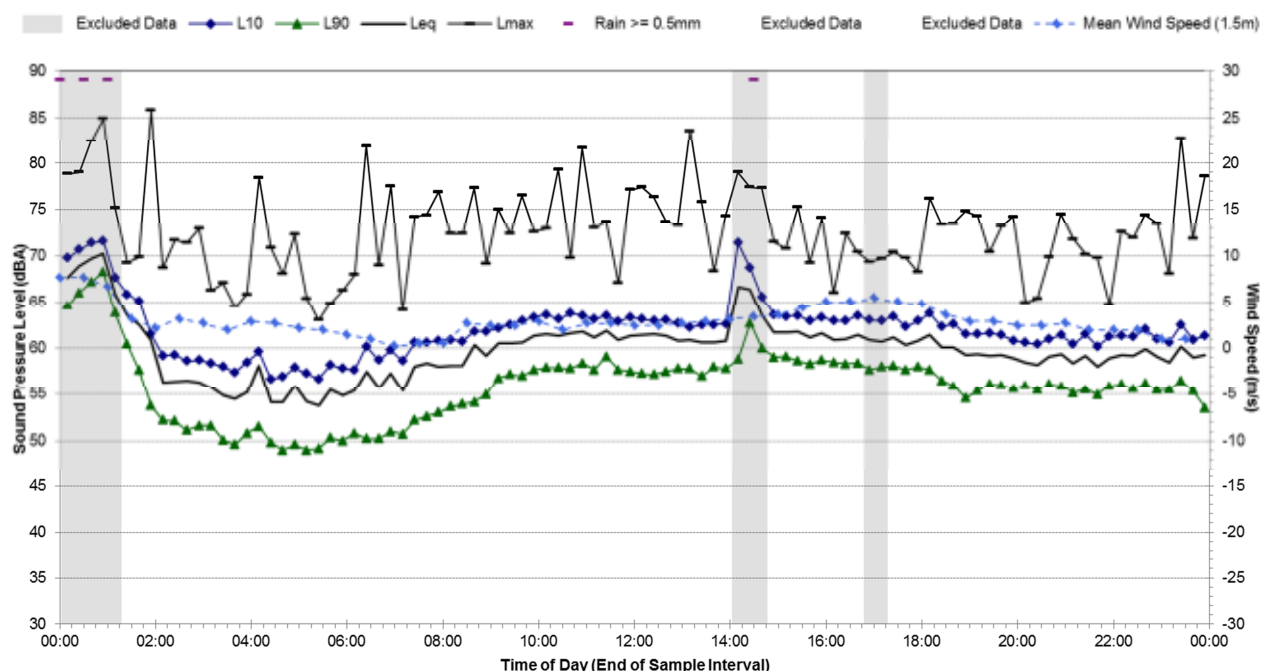
Statistical Ambient Noise Levels

A1.3 - Saturday, 23 February 2013



Statistical Ambient Noise Levels

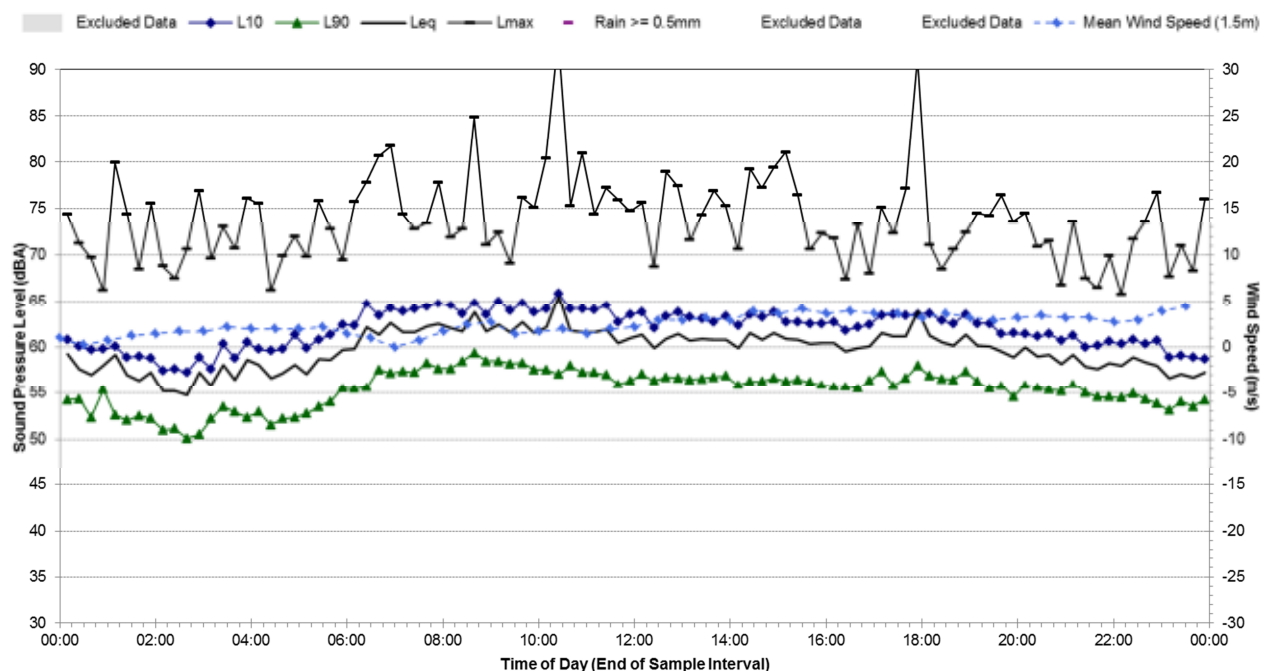
A1.3 - Sunday, 24 February 2013



A1 Ambient Noise Monitoring Results

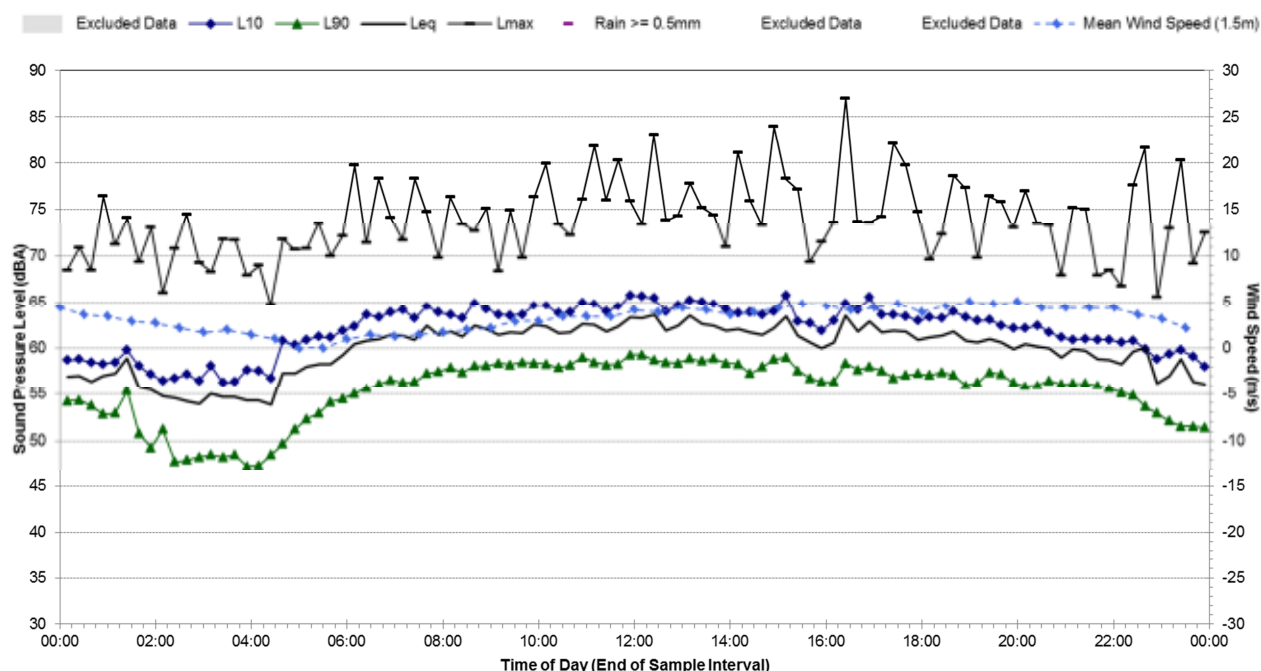
Statistical Ambient Noise Levels

A1.3 - Monday, 25 February 2013



Statistical Ambient Noise Levels

A1.3 - Tuesday, 26 February 2013



Statistical Ambient Noise Levels

A1.3 - Wednesday, 27 February 2013

