

30 October 2015

610.13569 M4 East Additional Noise Logging Summary 20151030.docx

WestConnex Delivery Authority  
101 Miller Street  
North Sydney  
NSW 2060

**Attention: David Kelly**

Dear David

## WestConnex M4 East Additional Noise Logger Survey Monitoring Summary

This letter contains a summary of the noise monitoring undertaken in response to a request for additional noise logging made by the NSW Department of Planning and Environment (DPE) during the exhibition phase of the WestConnex M4 East project.

The noise monitoring locations detailed in **Table 1** were selected to be representative of wider receivers and communities potentially affected by the noise from construction and operation of the M4 East project.

Noise monitoring equipment was deployed with consideration of other noise sources that may influence the measurements, accessibility and security, and consent of relevant land owners.

The results of the noise monitoring have been processed to exclude noise identified as extraneous and/or affected by adverse weather conditions (ie strong wind or rain) so as to establish representative noise levels from all noise sources typical of the surrounding area.

The results of the unattended ambient noise surveys are summarised in **Table 1** as the Rating Background Level (RBL) and the LAeq (energy averaged) noise levels for the *Interim Construction Noise Guideline* (ICNG) / *Industrial Noise Policy* (INP) daytime, evening and night-time periods.

**Table 1 Summary of unattended noise logging results - 16 October to 26 October 2015**

| LOC ID | Address                                | RBL (dBA) <sup>1</sup> |     |       | LAeq (dBA) <sup>2</sup> |     |       |
|--------|----------------------------------------|------------------------|-----|-------|-------------------------|-----|-------|
|        |                                        | Day                    | Eve | Night | Day                     | Eve | Night |
| ADD01  | 10 Welfare Street, Homebush West       | 51                     | 49  | 46    | 58                      | 57  | 55    |
| ADD02  | 38 Loftus Crescent, North Strathfield  | 44                     | 40  | 37    | 61                      | 60  | 57    |
| ADD03  | 50 Underwood Road, Homebush            | 47                     | 45  | 37    | 65                      | 63  | 59    |
| ADD04  | 18 Elliott Street, North Strathfield   | 42                     | 42  | 41    | 54                      | 55  | 50    |
| ADD05  | 5 Carrington Street, North Strathfield | 43                     | 42  | 39    | 55                      | 54  | 50    |
| ADD06  | 5 Thornleigh Avenue, Concord           | 42                     | 40  | 38    | 55                      | 54  | 49    |
| ADD07  | 15 Edward St, Concord                  | 42                     | 42  | 39    | 54                      | 54  | 50    |

| LOC ID | Address                       | RBL (dBA) <sup>1</sup> |     |       | LAeq (dBA) <sup>2</sup> |     |       |
|--------|-------------------------------|------------------------|-----|-------|-------------------------|-----|-------|
|        |                               | Day                    | Eve | Night | Day                     | Eve | Night |
| ADD08  | 12 Luke Avenue, Burwood       | 50                     | 50  | 43    | 59                      | 59  | 58    |
| ADD09  | 6 Loftus Street, Concord      | 49                     | 47  | 41    | 60                      | 59  | 54    |
| ADD10  | 174 Queens Road, Canada Bay   | 57                     | 50  | 42    | 70                      | 69  | 65    |
| ADD11  | 28 Page Avenue, Ashfield      | 47                     | 46  | 40    | 58                      | 57  | 55    |
| ADD12  | 5 Wolseley Street, Haberfield | 45                     | 45  | 42    | 57                      | 55  | 54    |
| ADD13  | 26 Walker Avenue, Haberfield  | 41                     | 43  | 37    | 55                      | 54  | 51    |
| ADD14  | 1 Walker Avenue, Haberfield   | 45                     | 45  | 39    | 58                      | 57  | 54    |

Note 1: Rating Background Level as defined by the NSW *Industrial Noise Policy*.

Note 2: The A-weighted equivalent noise level (basically the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound.

Photographs of the monitoring locations as well as the 24 hour daily noise levels at each monitoring location are presented in the **Appendices**.

I trust this information meets your current requirements, however, please feel free to contact me if you require further information.

Yours sincerely

ROBERT HALL  
Associate

# Appendix ADD01

M4 East Additional Noise Logging Summary 2015

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## ADD01 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                                                                                                                                 |                                   |                                                                                     |                                  |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-------------------|
| Noise Monitoring Location: ADD01                                                                                                                                                                                                                                                                                                                                |                                   | Map of Noise Monitoring Location                                                    |                                  |                   |
| Noise Monitoring Address: 10 Welfare St, Homebush West                                                                                                                                                                                                                                                                                                          |                                   |  |                                  |                   |
| Logger Device Type: Svantek 957                                                                                                                                                                                                                                                                                                                                 |                                   |                                                                                     |                                  |                   |
| Logger Serial No: 20665                                                                                                                                                                                                                                                                                                                                         |                                   |                                                                                     |                                  |                   |
| Ambient noise logger deployed immediately outside residential address 10 Welfare St, Homebush West. Logger located in front yard on western side of property.                                                                                                                                                                                                   |                                   |                                                                                     |                                  |                   |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Parramatta Rd during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Parramatta Rd can be heard at this location with discrete traffic noise level peaks from heavy vehicle movements occurring frequently. |                                   |                                                                                     |                                  |                   |
| Recorded Noise Levels (L <sub>Amax</sub> ):                                                                                                                                                                                                                                                                                                                     |                                   |                                                                                     |                                  |                   |
| Parramatta Rd Heavy-vehicle road traffic: 70-72 dBA, Parramatta Rd Light-vehicle road traffic: 55-60 dBA, Air traffic: 59-62 dBA, Birds: 60-76                                                                                                                                                                                                                  |                                   |                                                                                     |                                  |                   |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                                                                                                                        |                                   |                                                                                     |                                  |                   |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                               | Noise Level (dBA)                 |                                                                                     |                                  |                   |
|                                                                                                                                                                                                                                                                                                                                                                 | RBL                               | L <sub>Aeq</sub>                                                                    | L <sub>10</sub>                  | L <sub>1</sub>    |
| Daytime                                                                                                                                                                                                                                                                                                                                                         | 51                                | 58                                                                                  | 60                               | 66                |
| Evening                                                                                                                                                                                                                                                                                                                                                         | 49                                | 57                                                                                  | 58                               | 64                |
| Night-time                                                                                                                                                                                                                                                                                                                                                      | 46                                | 55                                                                                  | 56                               | 63                |
| Ambient Noise Logging Results – RNP Defined Time Periods                                                                                                                                                                                                                                                                                                        |                                   |                                                                                     |                                  |                   |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                               | Noise Level (dBA)                 |                                                                                     |                                  |                   |
|                                                                                                                                                                                                                                                                                                                                                                 | Weekday L <sub>Aeq</sub> (Period) | Weekend L <sub>Aeq</sub> (Period)                                                   | Weekly L <sub>Aeq</sub> (Period) |                   |
| Number of Valid Days                                                                                                                                                                                                                                                                                                                                            | 5                                 | 4                                                                                   | N/A (7 Day Average)              |                   |
| Daytime (7am-10pm)                                                                                                                                                                                                                                                                                                                                              | 59                                | 57                                                                                  | 58                               |                   |
| Night-time (10pm-7am)                                                                                                                                                                                                                                                                                                                                           | 56                                | 55                                                                                  | 55                               |                   |
| Attended Noise Measurement Results                                                                                                                                                                                                                                                                                                                              |                                   |                                                                                     |                                  |                   |
| Date                                                                                                                                                                                                                                                                                                                                                            | Start Time                        | Measured Noise Level (dBA)                                                          |                                  |                   |
|                                                                                                                                                                                                                                                                                                                                                                 |                                   | L <sub>A90</sub>                                                                    | L <sub>Aeq</sub>                 | L <sub>Amax</sub> |
| 16/10/2015                                                                                                                                                                                                                                                                                                                                                      | 15:26                             | 51                                                                                  | 56                               | 76                |

|                                                                                      |  |
|--------------------------------------------------------------------------------------|--|
| Photo of Noise Monitoring Location                                                   |  |
|  |  |

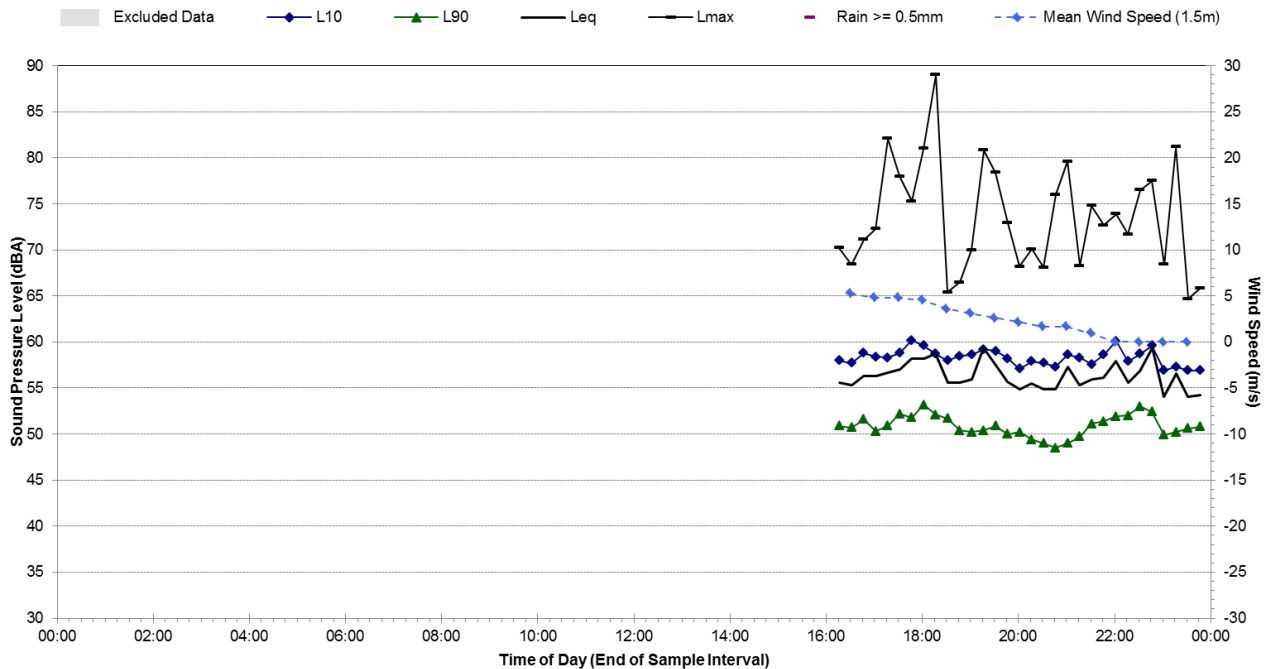
## Appendix ADD01

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### ADD01 Ambient Noise Monitoring Results

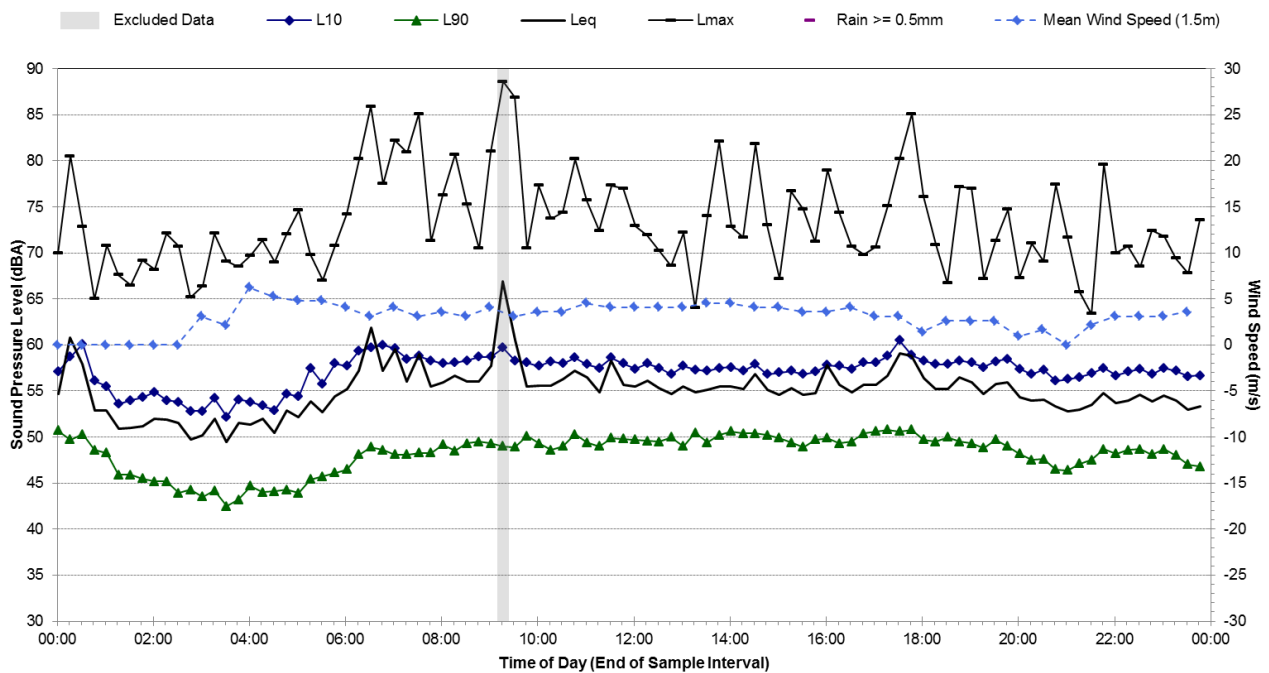
#### Statistical Ambient Noise Levels

ADD01 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD01 - Saturday, 17 October 2015





# Appendix ADD01

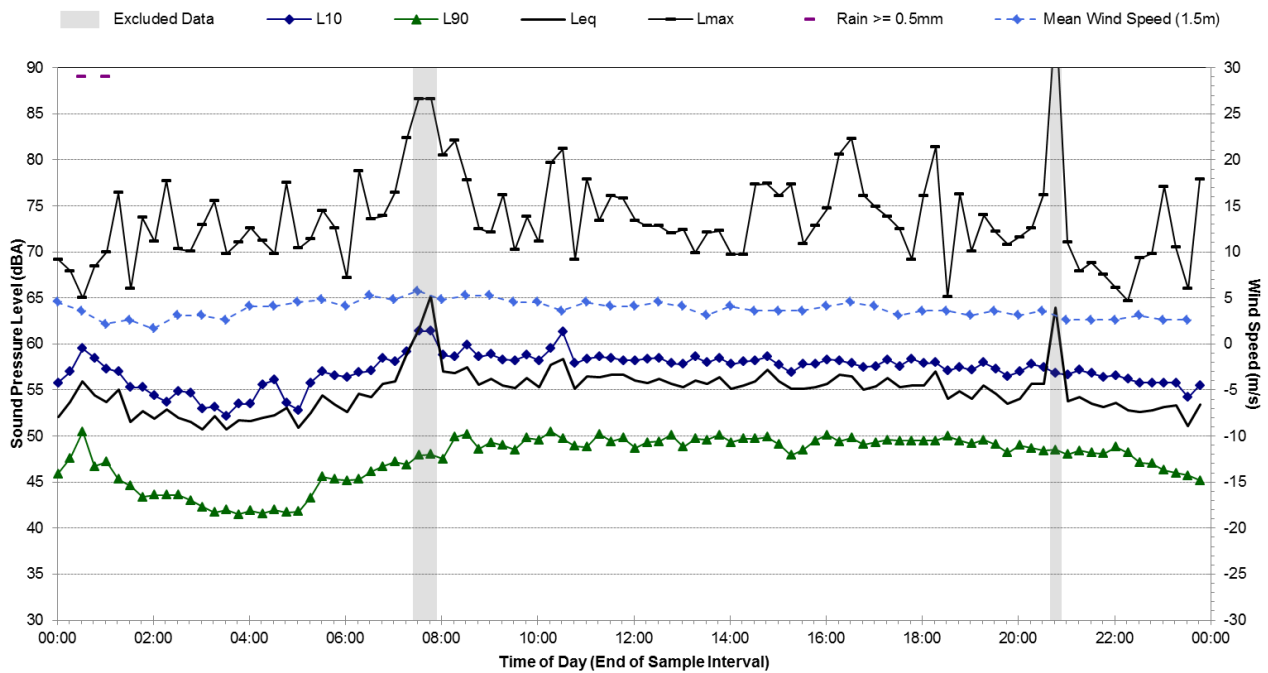
M4 East Additional Noise Logging Summary 2015

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## ADD01 Ambient Noise Monitoring Results

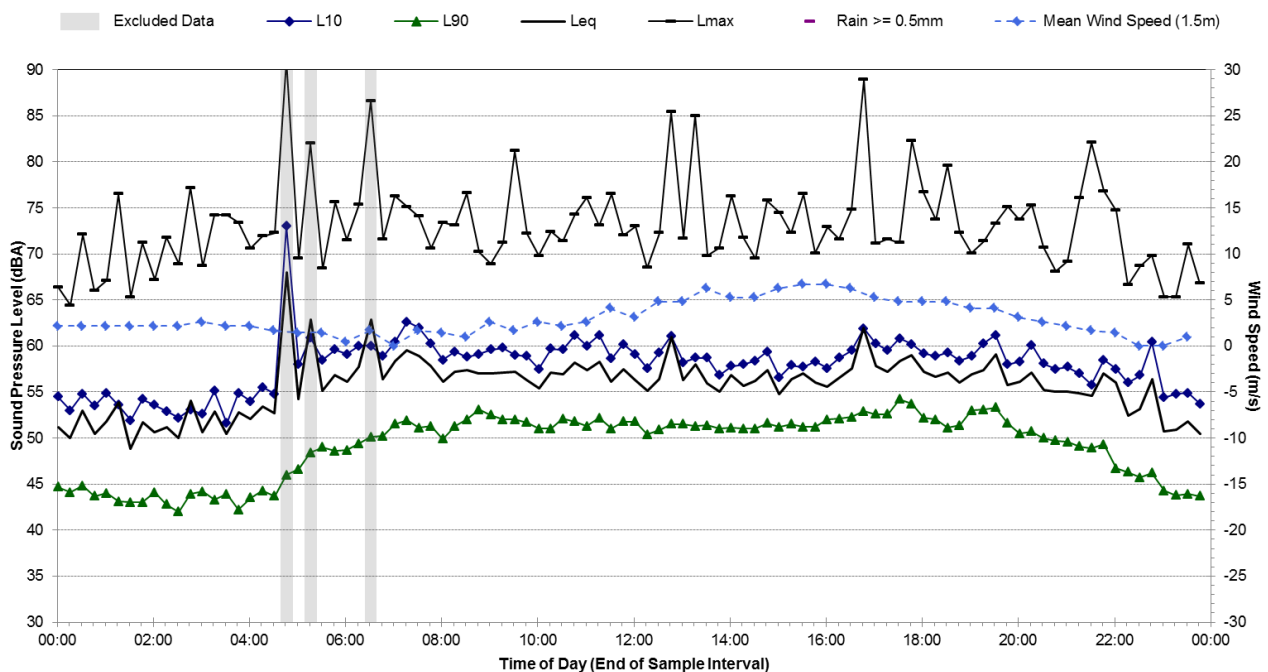
### Statistical Ambient Noise Levels

ADD01 - Sunday, 18 October 2015



### Statistical Ambient Noise Levels

ADD01 - Monday, 19 October 2015



## Appendix ADD01

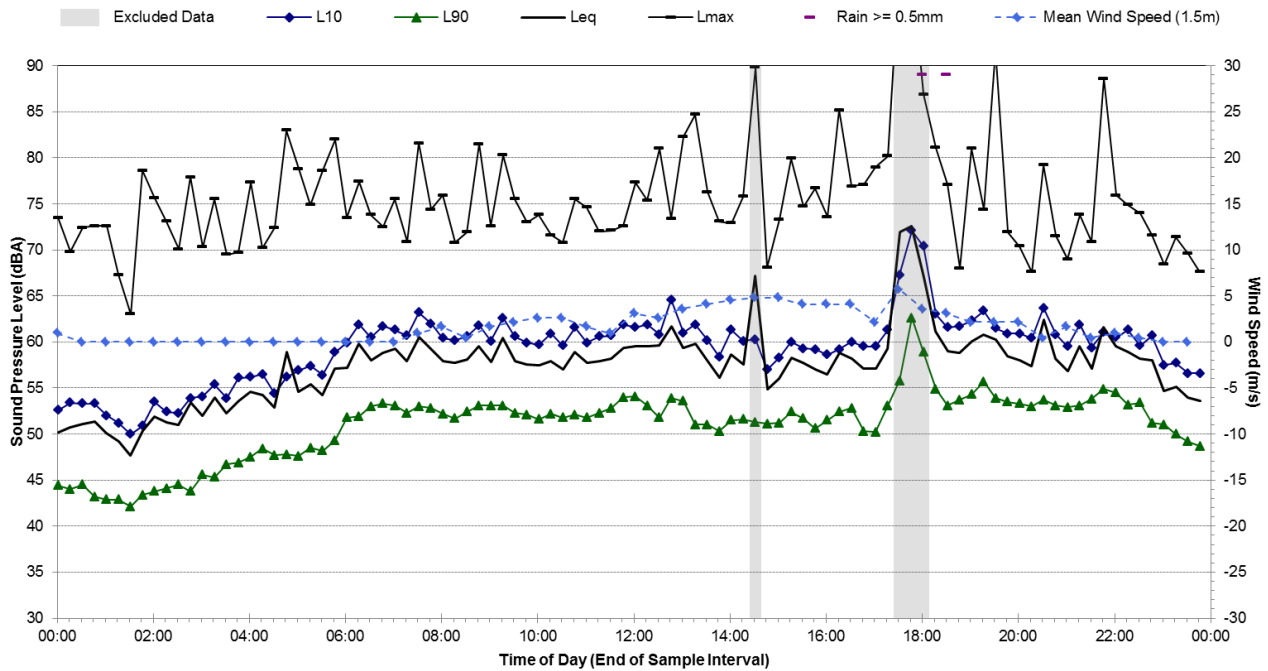
M4 East Additional Noise Logging Summary 2015

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### ADD01 Ambient Noise Monitoring Results

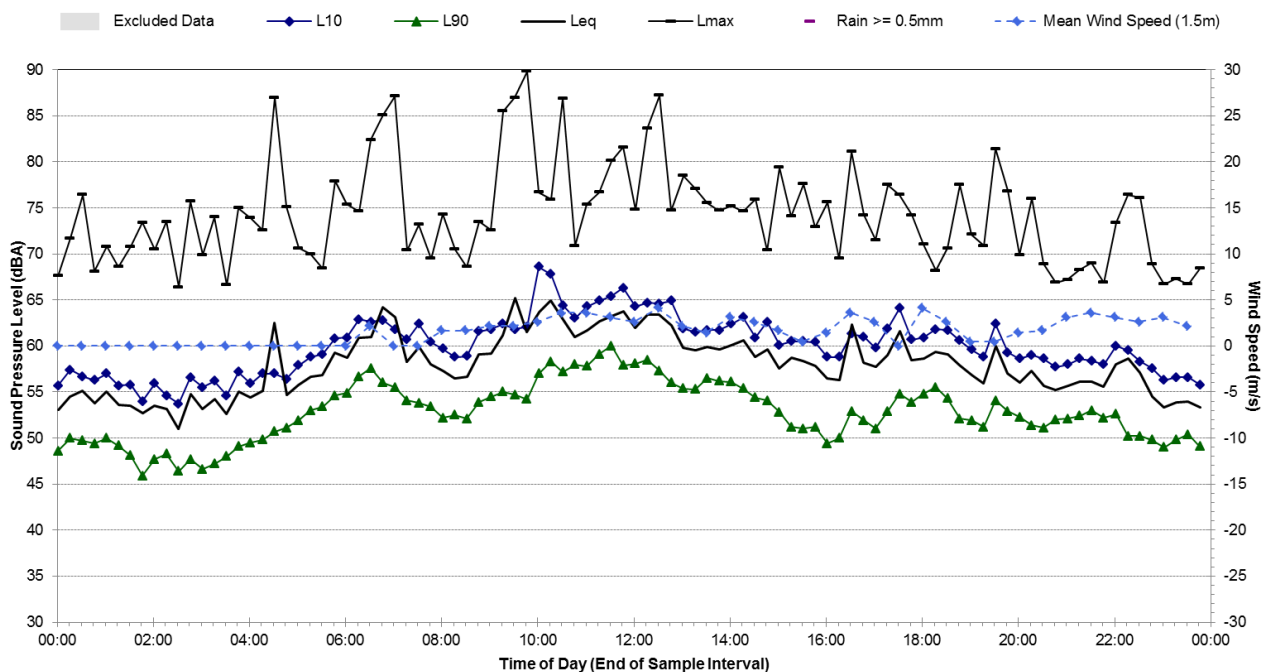
#### Statistical Ambient Noise Levels

ADD01 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD01 - Wednesday, 21 October 2015



## Appendix ADD01

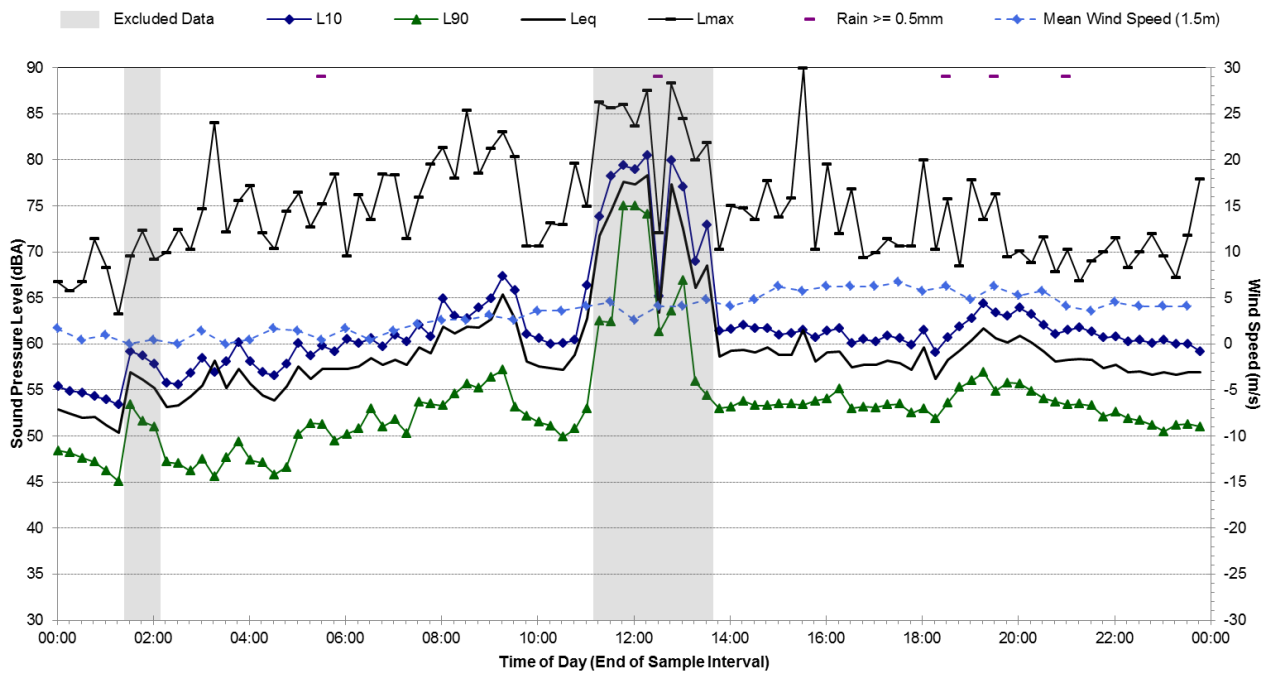
M4 East Additional Noise Logging Summary 2015

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### ADD01 Ambient Noise Monitoring Results

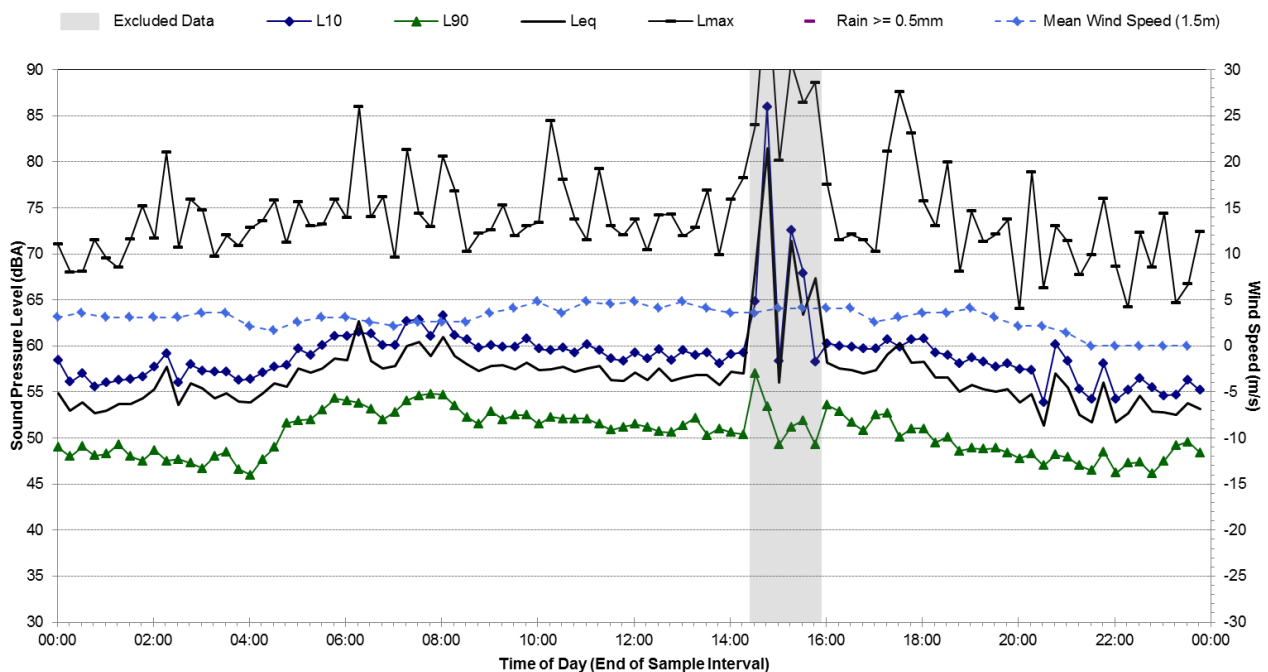
#### Statistical Ambient Noise Levels

ADD01 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD01 - Friday, 23 October 2015



# Appendix ADD01

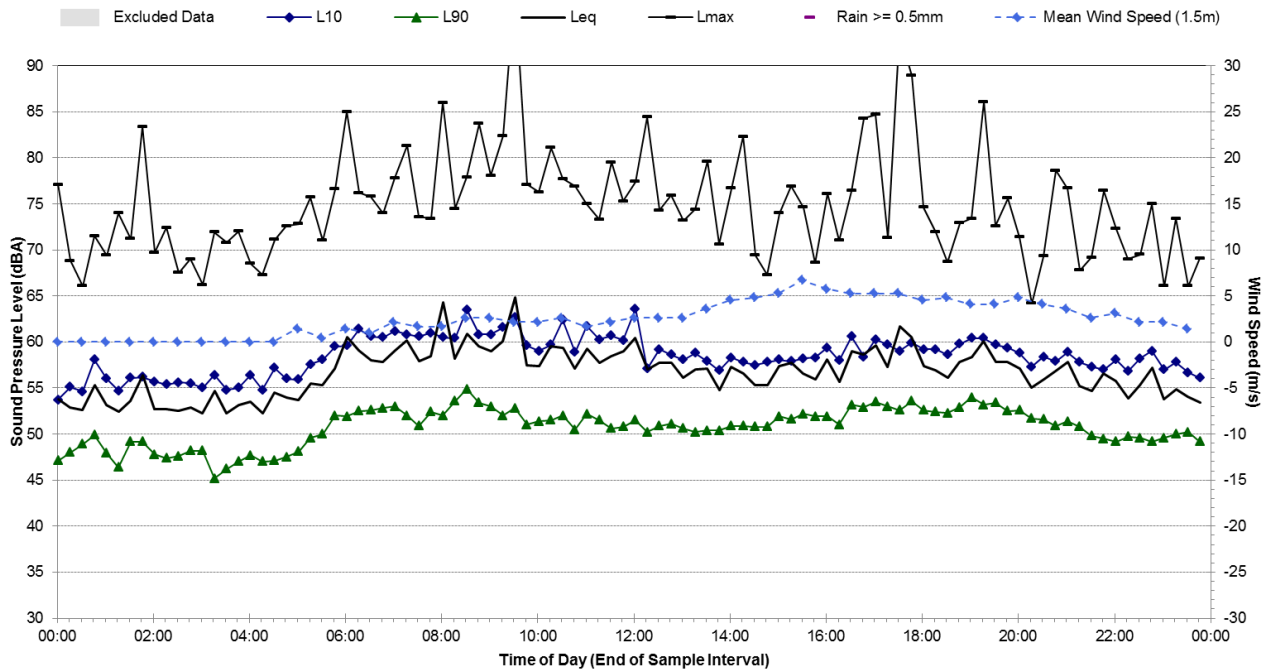
M4 East Additional Noise Logging Summary 2015

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## ADD01 Ambient Noise Monitoring Results

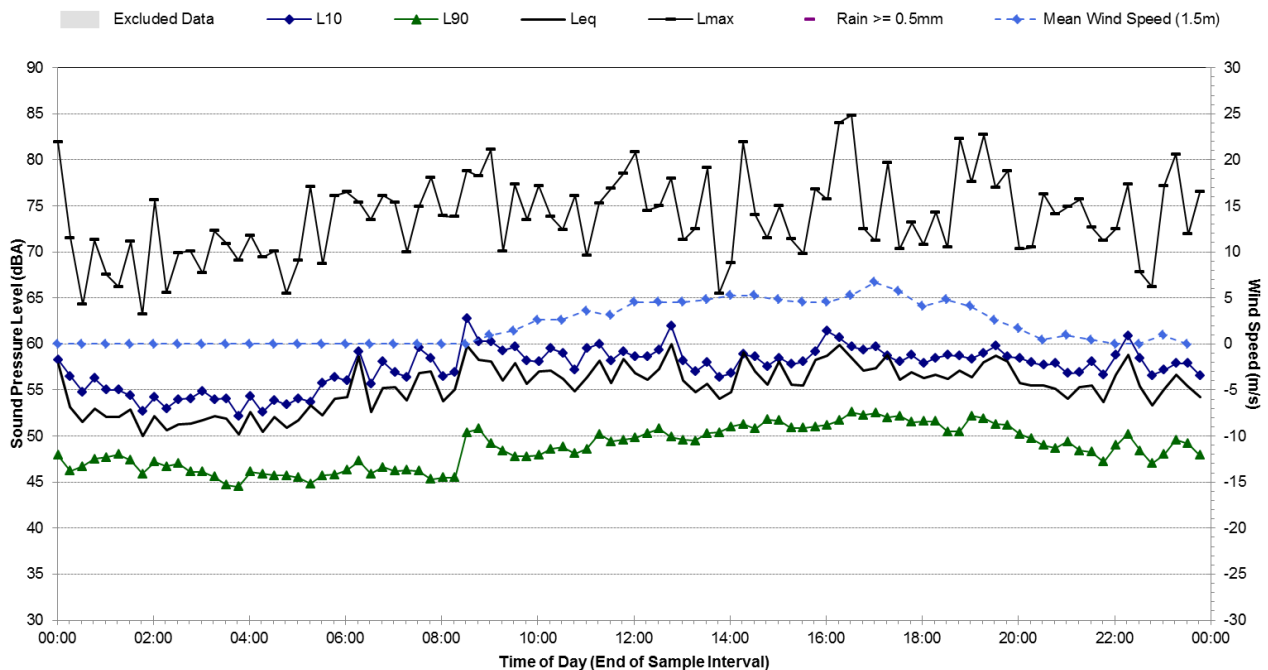
### Statistical Ambient Noise Levels

ADD01 - Saturday, 24 October 2015



### Statistical Ambient Noise Levels

ADD01 - Sunday, 25 October 2015



# Appendix ADD01

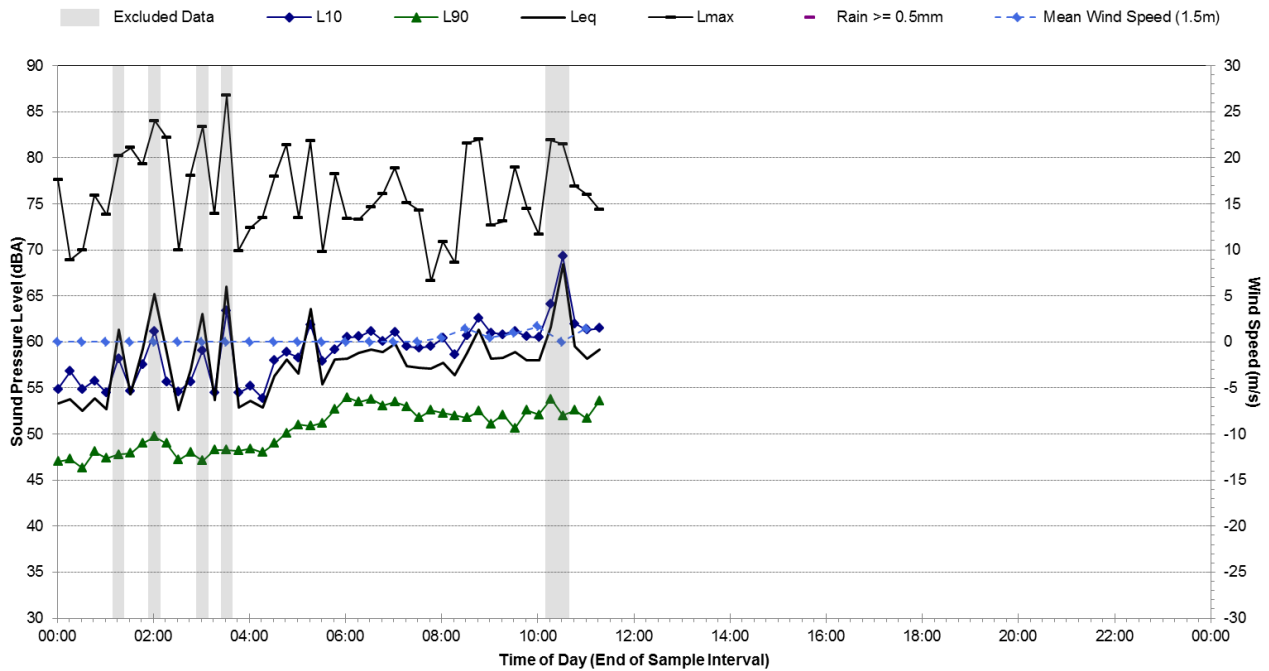
M4 East Additional Noise Logging Summary 2015

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## ADD01 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels

ADD01 - Monday, 26 October 2015

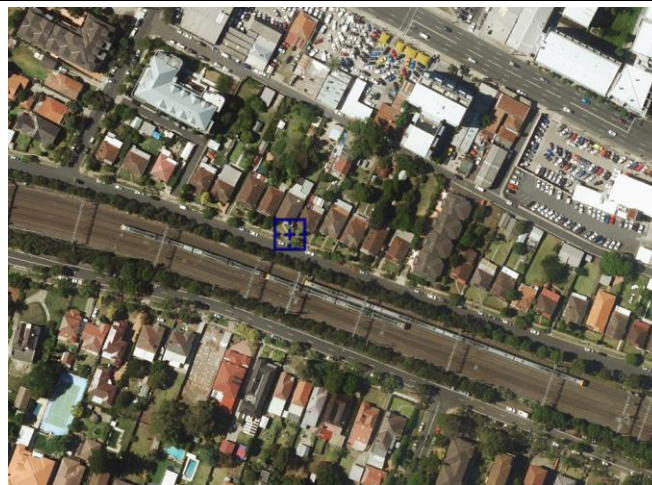


## Appendix ADD02

M4 East Additional Noise Logging Summary 2015

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### ADD02 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                               |                                                             |                                                                                      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
| Noise Monitoring Location: ADD02                                                                                                                                                                                                                              |                                                             | Map of Noise Monitoring Location                                                     |  |
| Noise Monitoring Address: 38 Loftus Cres, North Strathfield                                                                                                                                                                                                   |                                                             |   |  |
| Logger Device Type: Svantek 957<br>Logger Serial No: 23816                                                                                                                                                                                                    |                                                             |                                                                                      |  |
| Ambient noise logger deployed immediately outside residential address 38 Loftus Cres, North Strathfield.<br>Logger located in front yard on southern side of property.                                                                                        |                                                             |                                                                                      |  |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by rail traffic and distant road traffic noise from Parramatta Rd during the daytime. Local traffic passbys on Loftus Cres and The Crescent were occasional. |                                                             |                                                                                      |  |
| Recorded Noise Levels (LAmax):<br>Loftus Cres Light-vehicle road traffic: 58-76 dBA, The Crescent Light-vehicle road traffic: 51-54 dBA,<br>Distant road traffic Parramatta Rd: 47 dBA, Rail traffic: 57-81 dBA, Air traffic: 57 dBA                          |                                                             |  |  |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                      |                                                             |                                                                                      |  |
| Monitoring Period                                                                                                                                                                                                                                             | Noise Level (dBA)                                           |                                                                                      |  |
|                                                                                                                                                                                                                                                               | RBLLAeqL10L1                                                |                                                                                      |  |
| Daytime                                                                                                                                                                                                                                                       | 44616472                                                    |                                                                                      |  |
| Evening                                                                                                                                                                                                                                                       | 40606172                                                    |                                                                                      |  |
| Night-time                                                                                                                                                                                                                                                    | 37575269                                                    |                                                                                      |  |
| 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                                                                                                                                                                                                                                          | 54N/A (7 Day Average)                                       |                                                                                      |  |
| Daytime (7am-10pm)                                                                                                                                                                                                                                            | 615961                                                      |                                                                                      |  |
| Night-time (10pm-7am)                                                                                                                                                                                                                                         | 575657                                                      |                                                                                      |  |
| Attended Noise Measurement Results                                                                                                                                                                                                                            |                                                             |                                                                                      |  |
| Date                                                                                                                                                                                                                                                          | Start Time                                                  | Measured Noise Level (dBA)                                                           |  |
|                                                                                                                                                                                                                                                               |                                                             | LA90LAeqLAmax                                                                        |  |
| 16/10/2015                                                                                                                                                                                                                                                    | 15:51                                                       | 486181                                                                               |  |



## Appendix ADD02

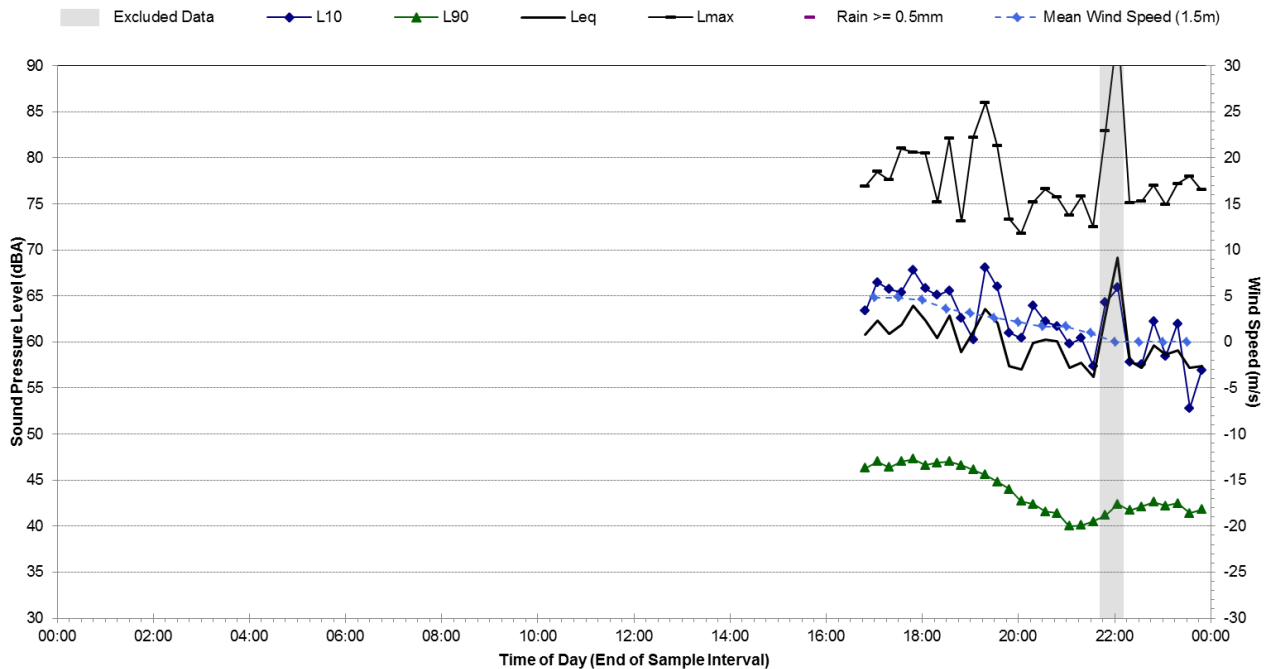
M4 East Additional Noise Logging Summary 2015

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### ADD02 Ambient Noise Monitoring Results

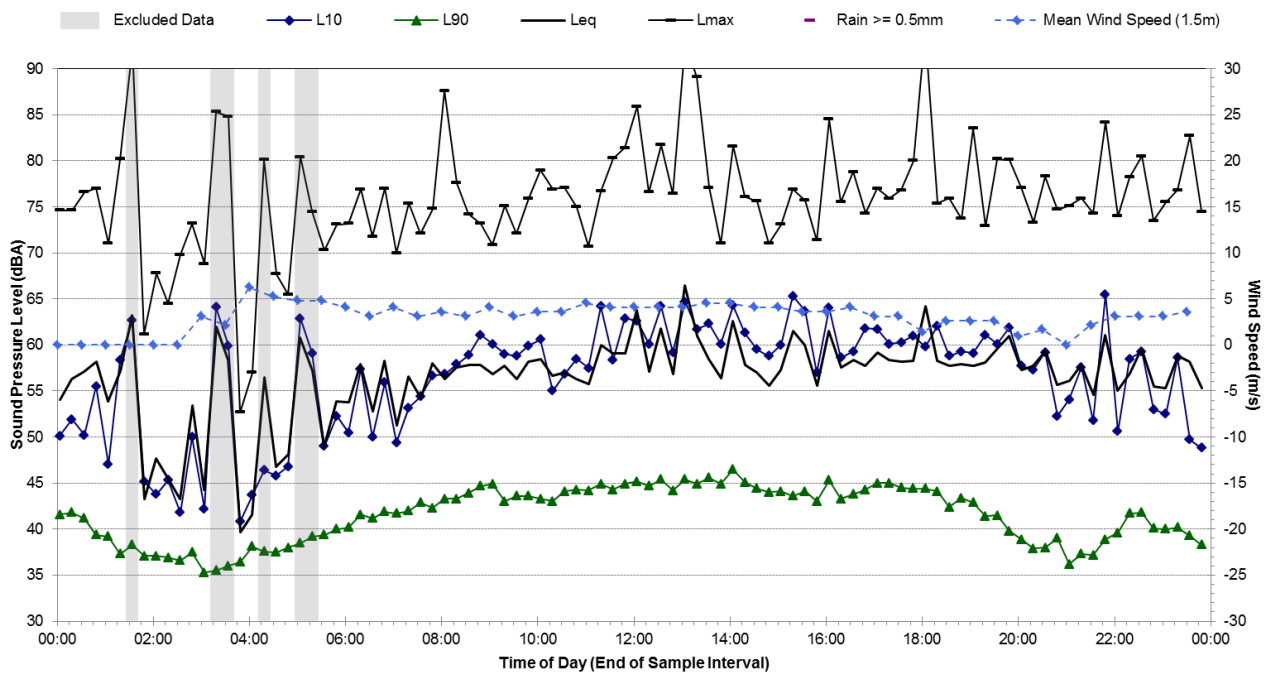
#### Statistical Ambient Noise Levels

ADD02 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD02 - Saturday, 17 October 2015



## Appendix ADD02

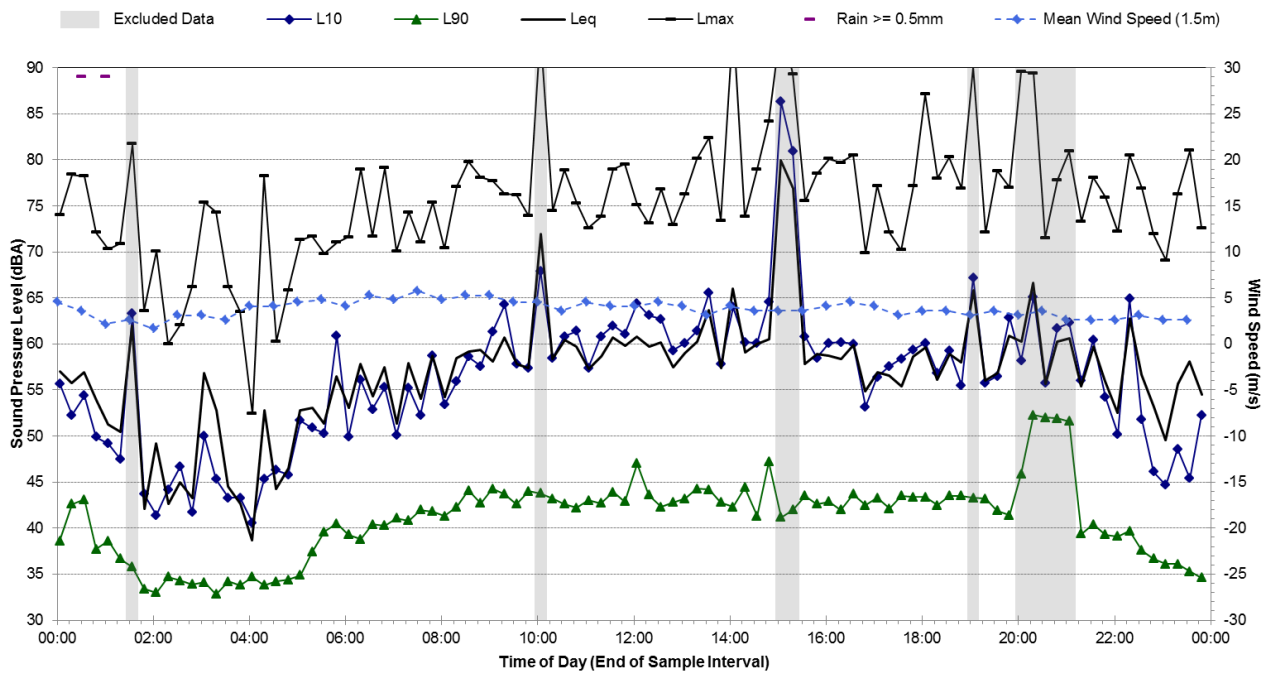
M4 East Additional Noise Logging Summary 2015

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### ADD02 Ambient Noise Monitoring Results

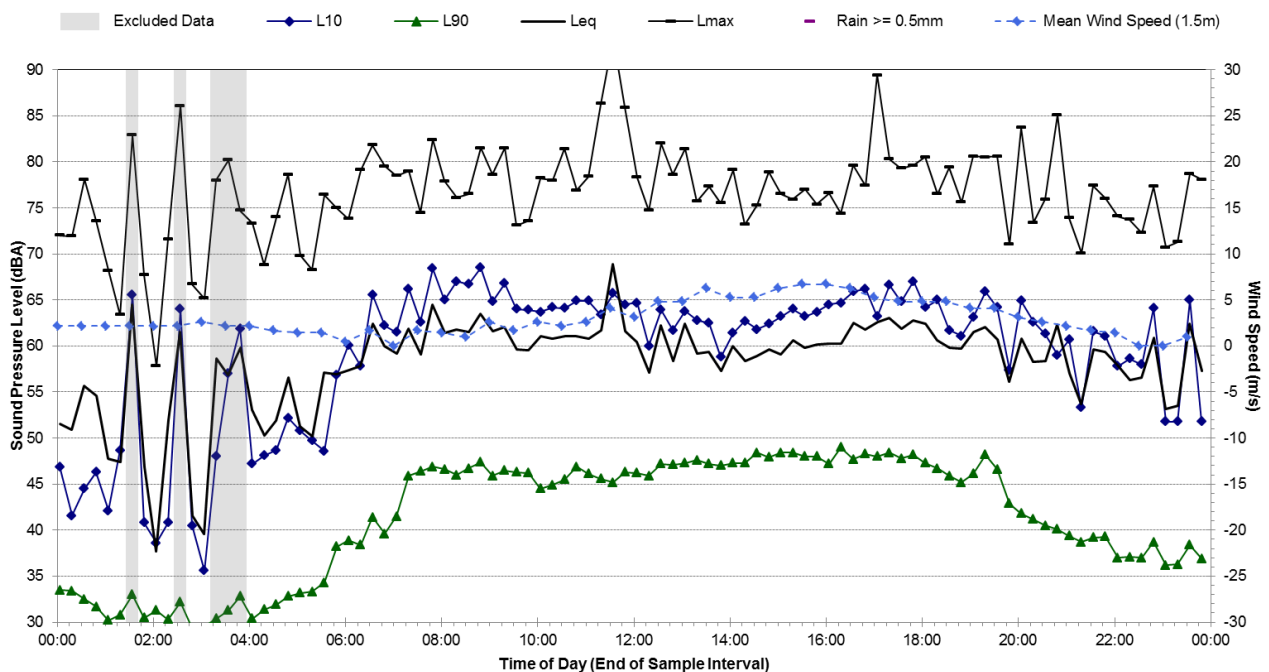
#### Statistical Ambient Noise Levels

ADD02 - Sunday, 18 October 2015



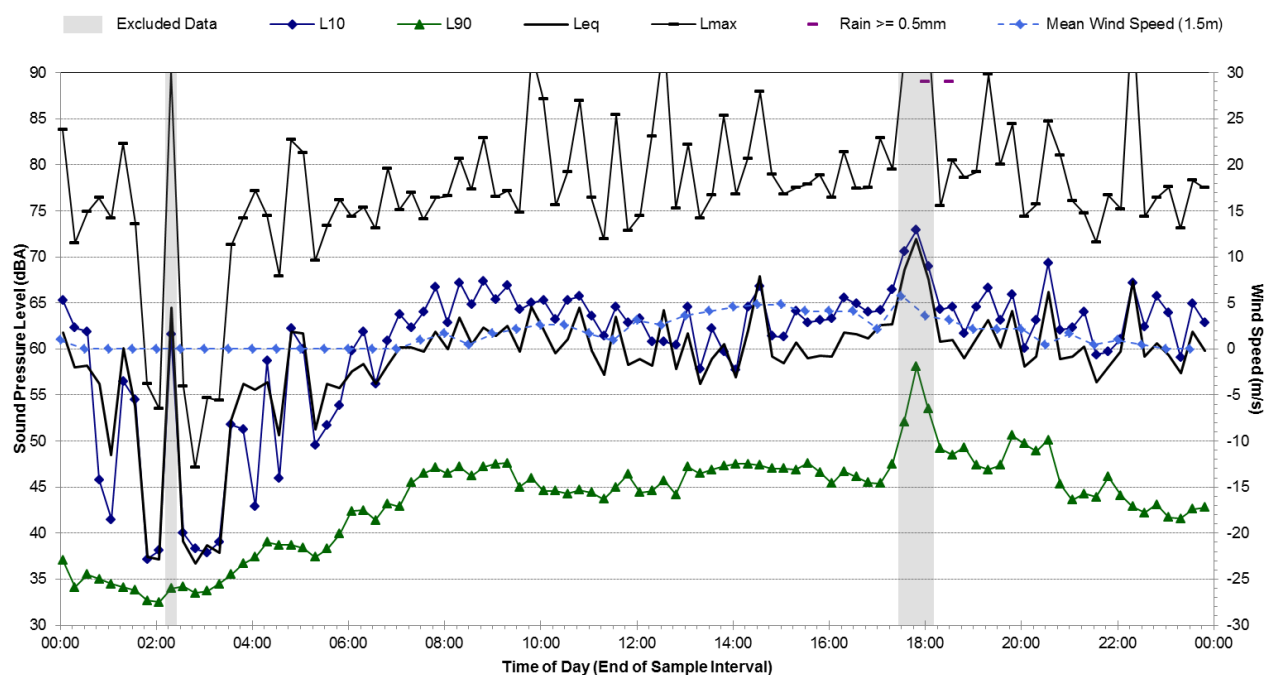
#### Statistical Ambient Noise Levels

ADD02 - Monday, 19 October 2015



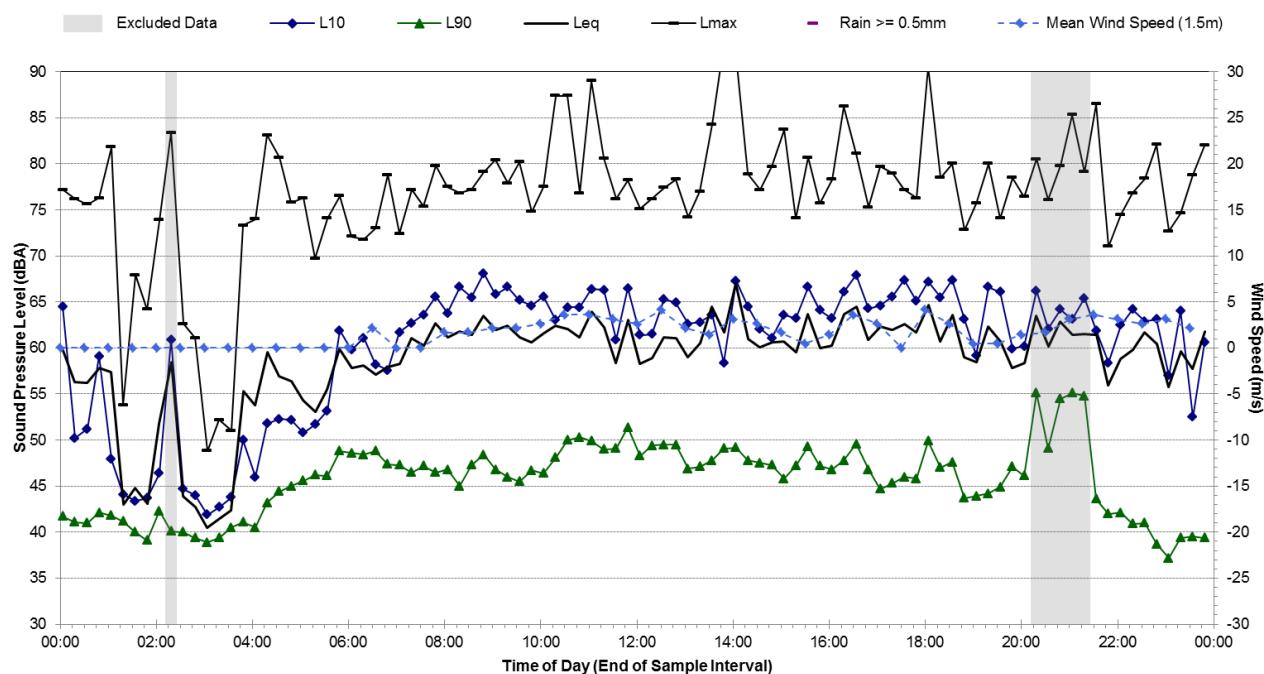
## Statistical Ambient Noise Levels

ADD02 - Tuesday, 20 October 2015



## Statistical Ambient Noise Levels

ADD02 - Wednesday, 21 October 2015



## Appendix ADD02

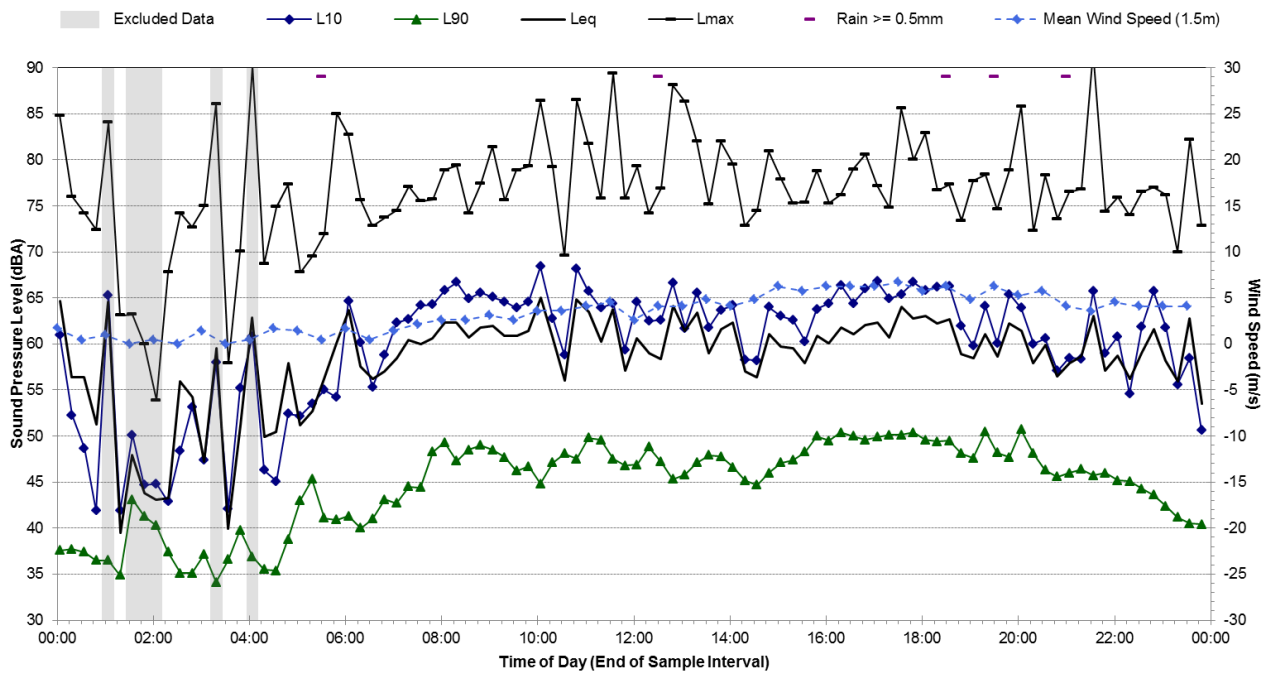
M4 East Additional Noise Logging Summary 2015

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### ADD02 Ambient Noise Monitoring Results

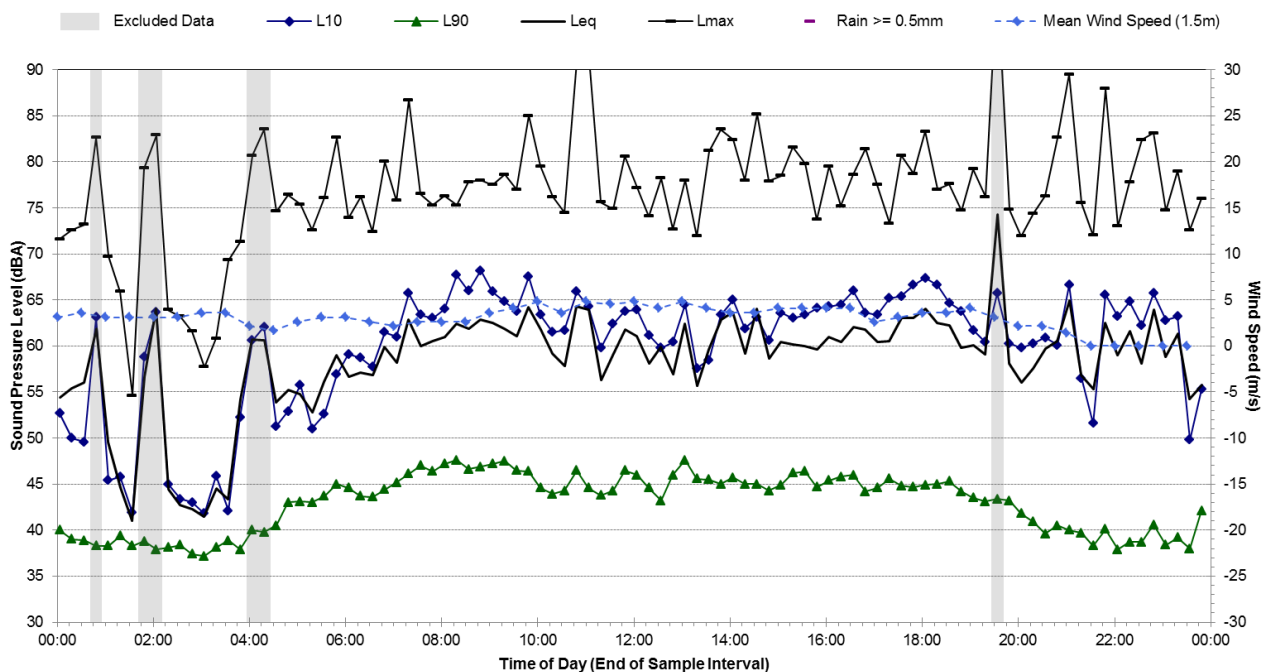
#### Statistical Ambient Noise Levels

ADD02 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD02 - Friday, 23 October 2015



## Appendix ADD02

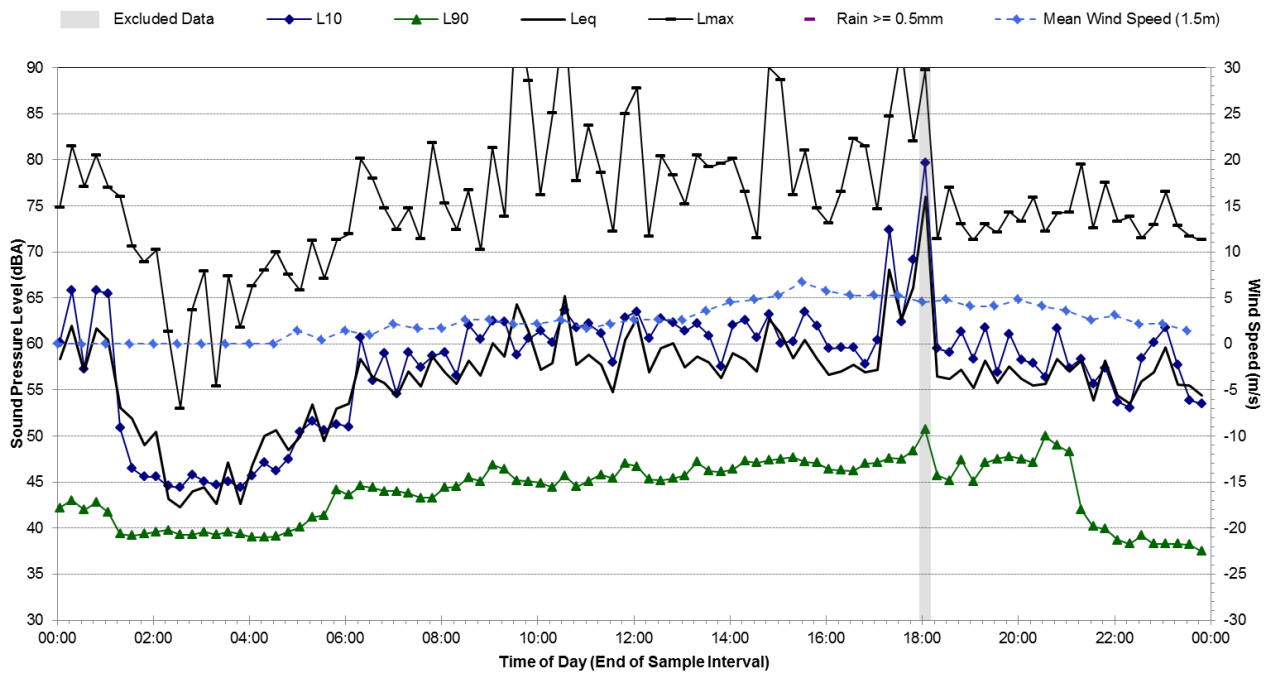
M4 East Additional Noise Logging Summary 2015

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### ADD02 Ambient Noise Monitoring Results

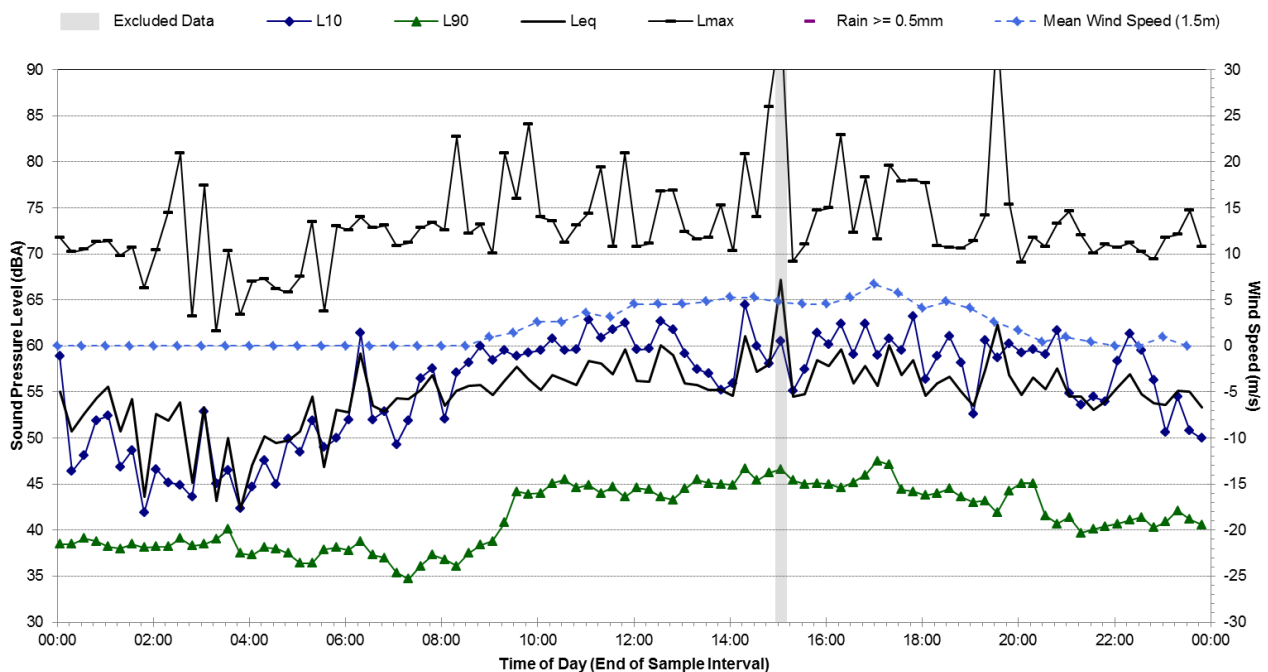
#### Statistical Ambient Noise Levels

ADD02 - Saturday, 24 October 2015



#### Statistical Ambient Noise Levels

ADD02 - Sunday, 25 October 2015



# Appendix ADD02

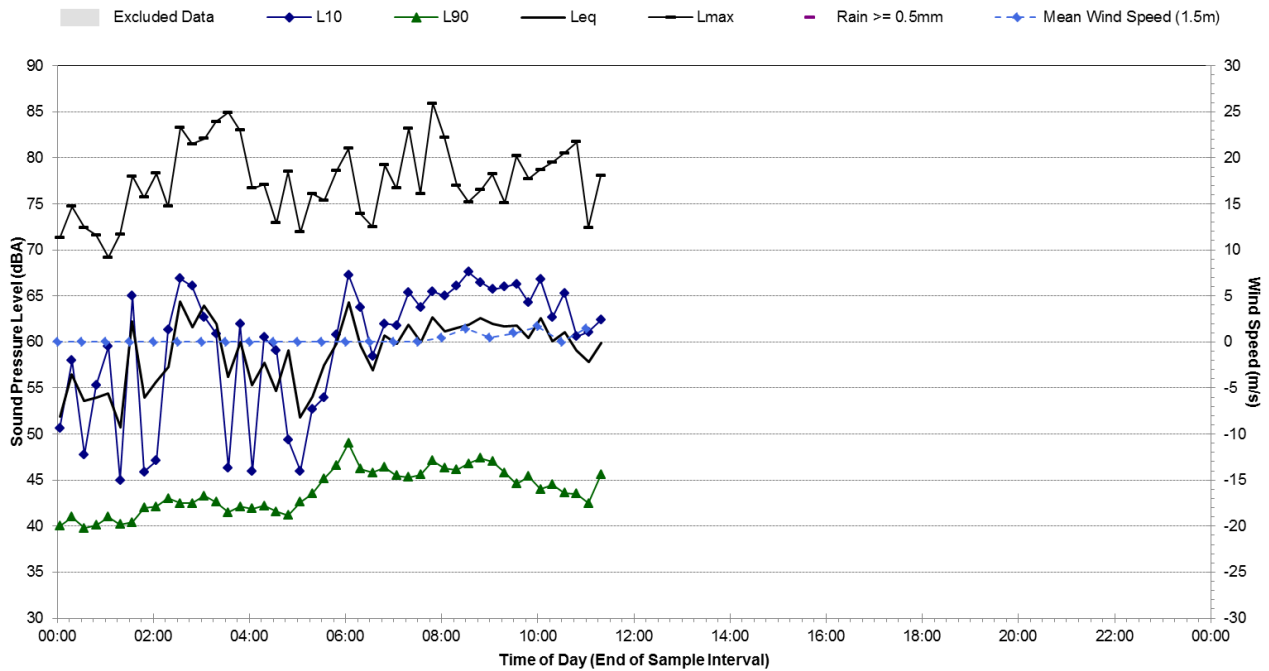
M4 East Additional Noise Logging Summary 2015

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## ADD02 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels

ADD02 - Monday, 26 October 2015



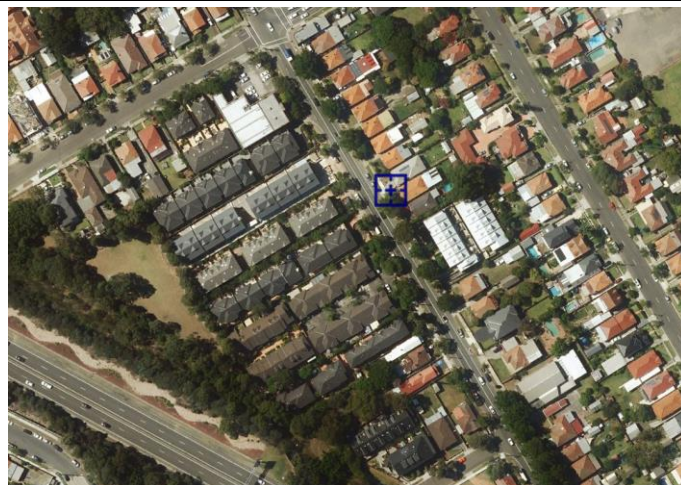
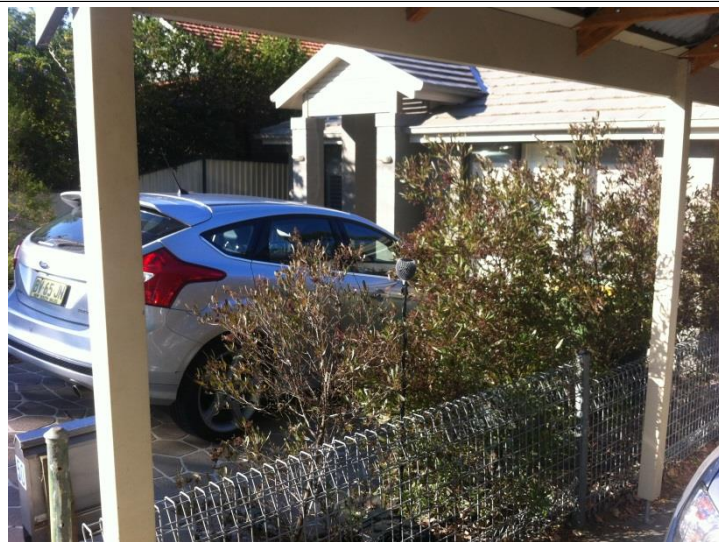


## Appendix ADD03

M4 East Additional Noise Logging Summary 2015

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### ADD03 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                                                                                                                               |                             |                                                                                                                                   |                            |              |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|------------|
| <b>Noise Monitoring Location:</b> ADD03                                                                                                                                                                                                                                                                                                                       |                             | <b>Map of Noise Monitoring Location</b>                                                                                           |                            |              |            |
| <b>Noise Monitoring Address:</b> 50 Underwood Rd, Homebush                                                                                                                                                                                                                                                                                                    |                             |                                                |                            |              |            |
| Logger Device Type: ARL 316<br>Logger Serial No: 16-207-046                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                                   |                            |              |            |
| Ambient noise logger deployed immediately outside residential address 50 Underwood Rd, Homebush.<br>Logger located in front yard on western side of property.                                                                                                                                                                                                 |                             |                                                                                                                                   |                            |              |            |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Underwood Rd during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Underwood Rd can be heard at this location with discrete traffic noise level peaks from heavy vehicle movements occurring frequently. |                             |                                                                                                                                   |                            |              |            |
| Recorded Noise Levels (LAmax):<br>Underwood Rd Heavy-vehicle road traffic: 74-87 dBA, Underwood Rd Light-vehicle road traffic: 66-75 dBA, Air traffic: 69-72 dBA                                                                                                                                                                                              |                             | <b>Photo of Noise Monitoring Location</b><br> |                            |              |            |
| <b>Ambient Noise Logging Results – INP Defined Time Periods</b>                                                                                                                                                                                                                                                                                               |                             |                                                                                                                                   |                            |              |            |
| <b>Monitoring Period</b>                                                                                                                                                                                                                                                                                                                                      | <b>Noise Level (dBA)</b>    |                                                                                                                                   |                            |              |            |
|                                                                                                                                                                                                                                                                                                                                                               | <b>RBL</b>                  |                                                                                                                                   |                            | <b>LAeq</b>  | <b>L10</b> |
| Daytime                                                                                                                                                                                                                                                                                                                                                       | 47                          | 65                                                                                                                                | 68                         | 74           |            |
| Evening                                                                                                                                                                                                                                                                                                                                                       | 45                          | 63                                                                                                                                | 67                         | 71           |            |
| Night-time                                                                                                                                                                                                                                                                                                                                                    | 37                          | 59                                                                                                                                | 59                         | 69           |            |
| <b>Ambient Noise Logging Results – RNP Defined Time Periods</b>                                                                                                                                                                                                                                                                                               |                             |                                                                                                                                   |                            |              |            |
| <b>Monitoring Period</b>                                                                                                                                                                                                                                                                                                                                      | <b>Noise Level (dBA)</b>    |                                                                                                                                   |                            |              |            |
|                                                                                                                                                                                                                                                                                                                                                               | <b>Weekday LAeq(Period)</b> | <b>Weekend LAeq(Period)</b>                                                                                                       | <b>Weekly LAeq(Period)</b> |              |            |
| Number of Valid Days                                                                                                                                                                                                                                                                                                                                          | 5                           | 4                                                                                                                                 | N/A (7 Day Average)        |              |            |
| Daytime (7am-10pm)                                                                                                                                                                                                                                                                                                                                            | 65                          | 64                                                                                                                                | 65                         |              |            |
| Night-time (10pm-7am)                                                                                                                                                                                                                                                                                                                                         | 59                          | 59                                                                                                                                | 59                         |              |            |
| <b>Attended Noise Measurement Results</b>                                                                                                                                                                                                                                                                                                                     |                             |                                                                                                                                   |                            |              |            |
| <b>Date</b>                                                                                                                                                                                                                                                                                                                                                   | <b>Start Time</b>           | <b>Measured Noise Level (dBA)</b>                                                                                                 |                            |              |            |
|                                                                                                                                                                                                                                                                                                                                                               |                             | <b>LA90</b>                                                                                                                       | <b>LAeq</b>                | <b>LAmax</b> |            |
| 16/10/2015                                                                                                                                                                                                                                                                                                                                                    | 16:54                       | 56                                                                                                                                | 68                         | 87           |            |

## Appendix ADD03

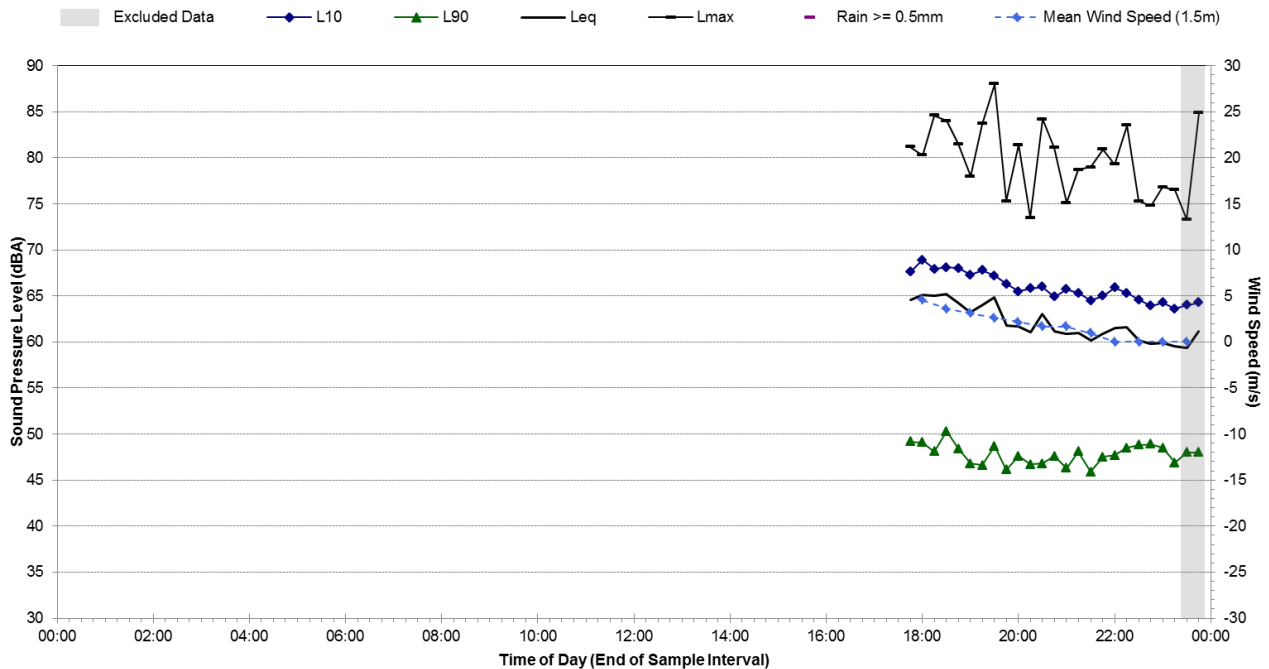
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### ADD03 Ambient Noise Monitoring Results

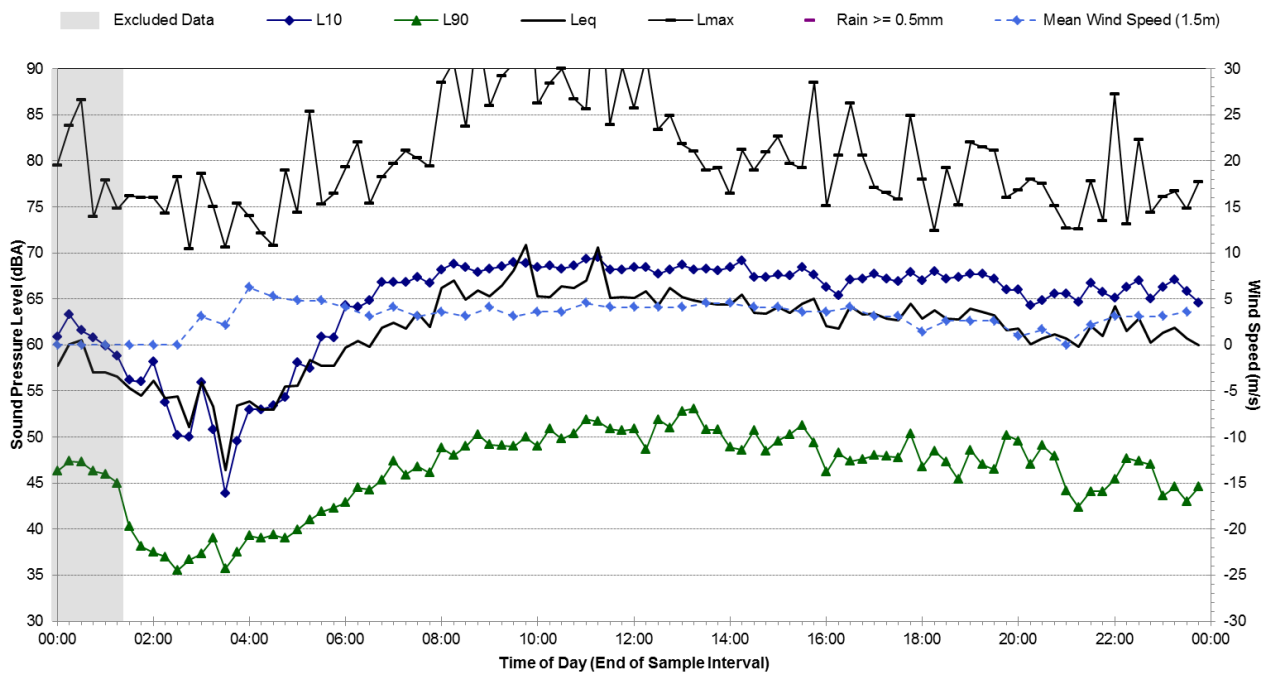
#### Statistical Ambient Noise Levels

ADD03 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD03 - Saturday, 17 October 2015



## Appendix ADD03

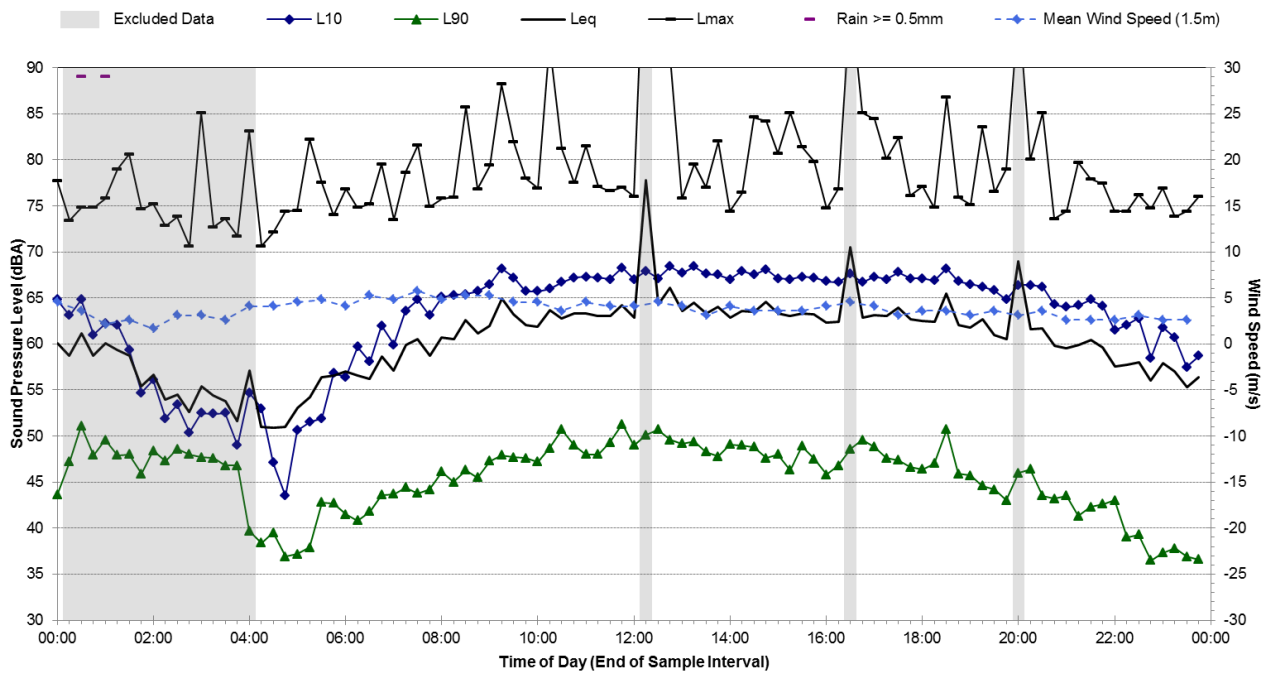
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### ADD03 Ambient Noise Monitoring Results

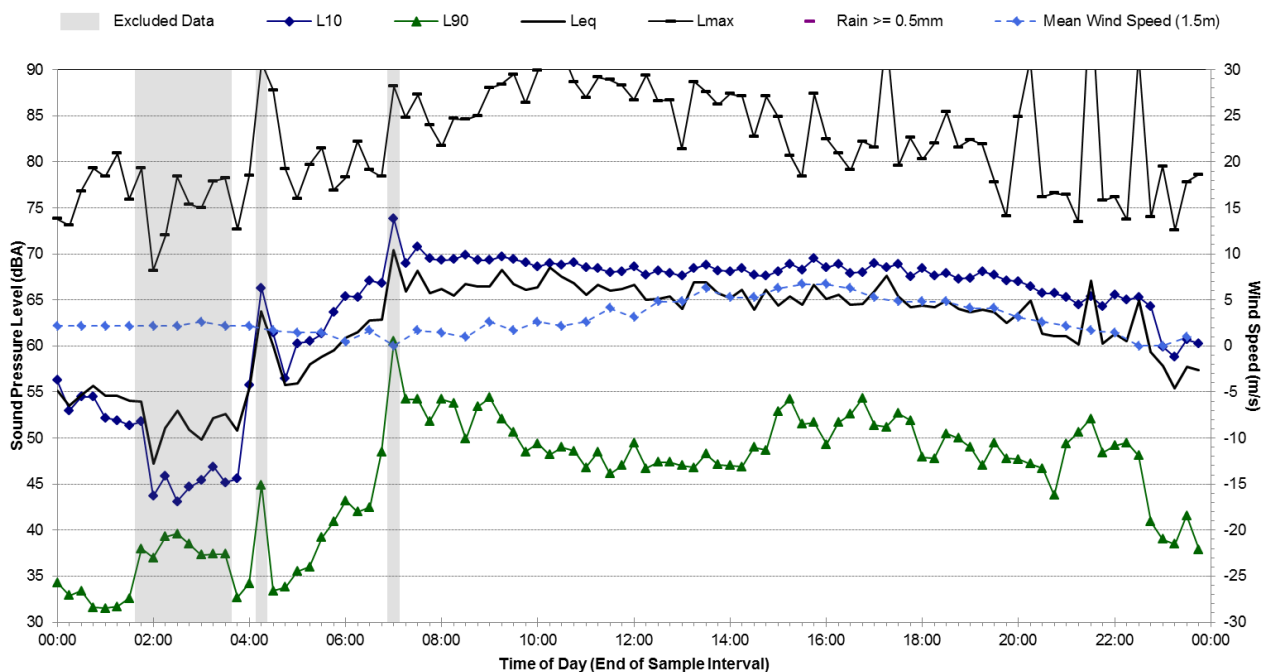
#### Statistical Ambient Noise Levels

ADD03 - Sunday, 18 October 2015



#### Statistical Ambient Noise Levels

ADD03 - Monday, 19 October 2015



## Appendix ADD03

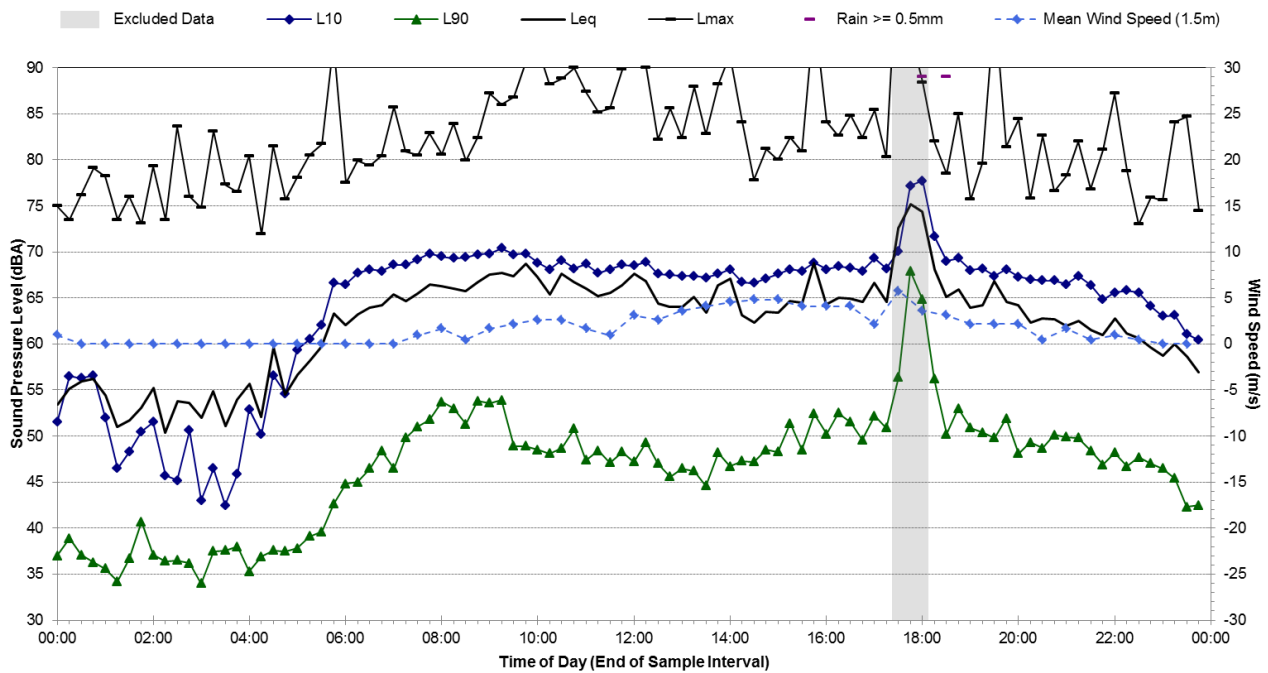
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### ADD03 Ambient Noise Monitoring Results

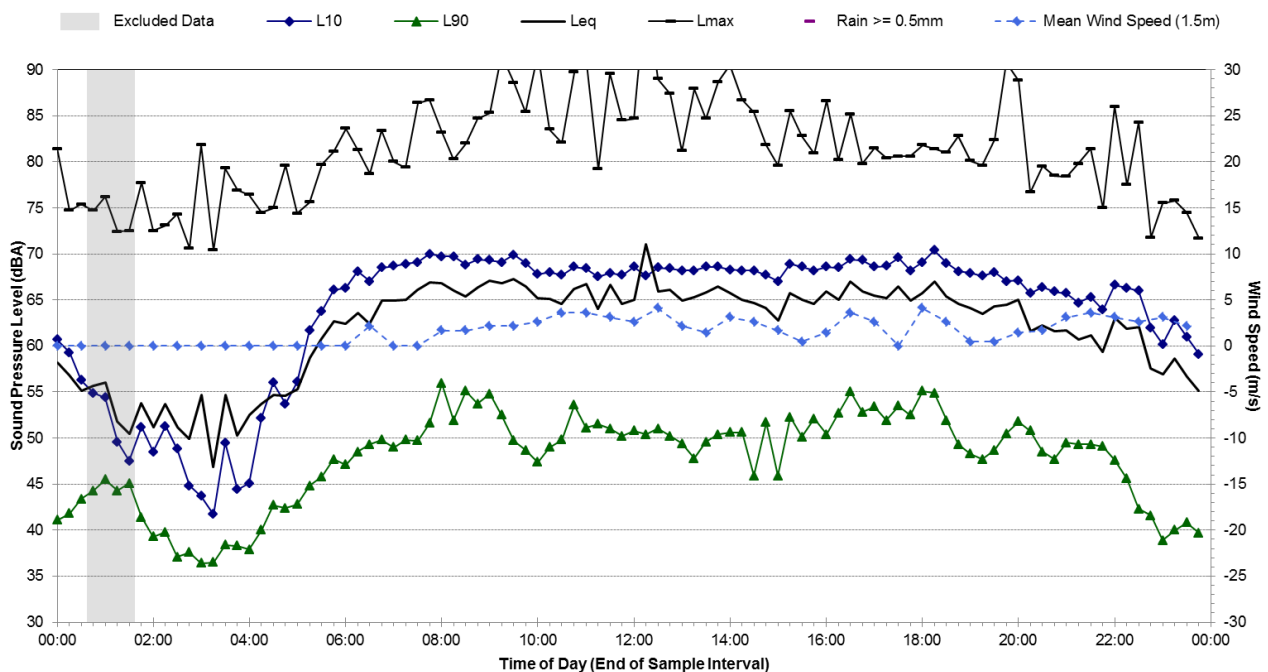
#### Statistical Ambient Noise Levels

ADD03 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD03 - Wednesday, 21 October 2015



## Appendix ADD03

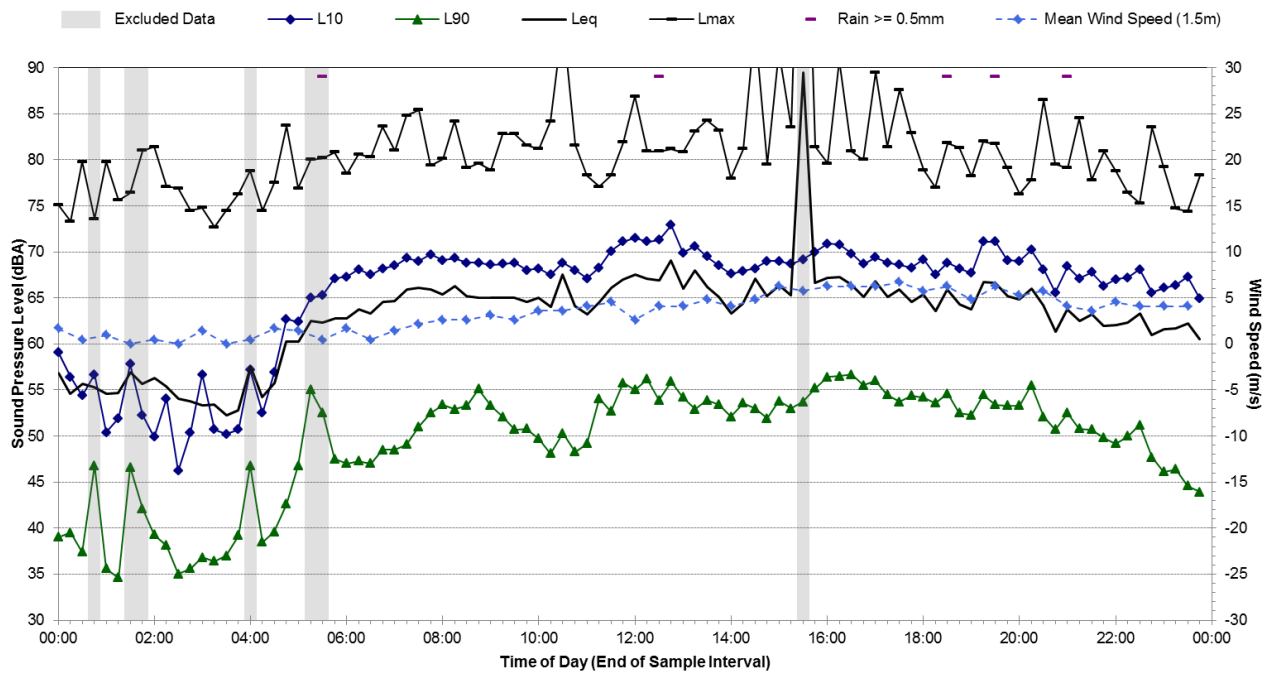
M4 East Additional Noise Logging Summary 2015

Page 5 of 7

### ADD03 Ambient Noise Monitoring Results

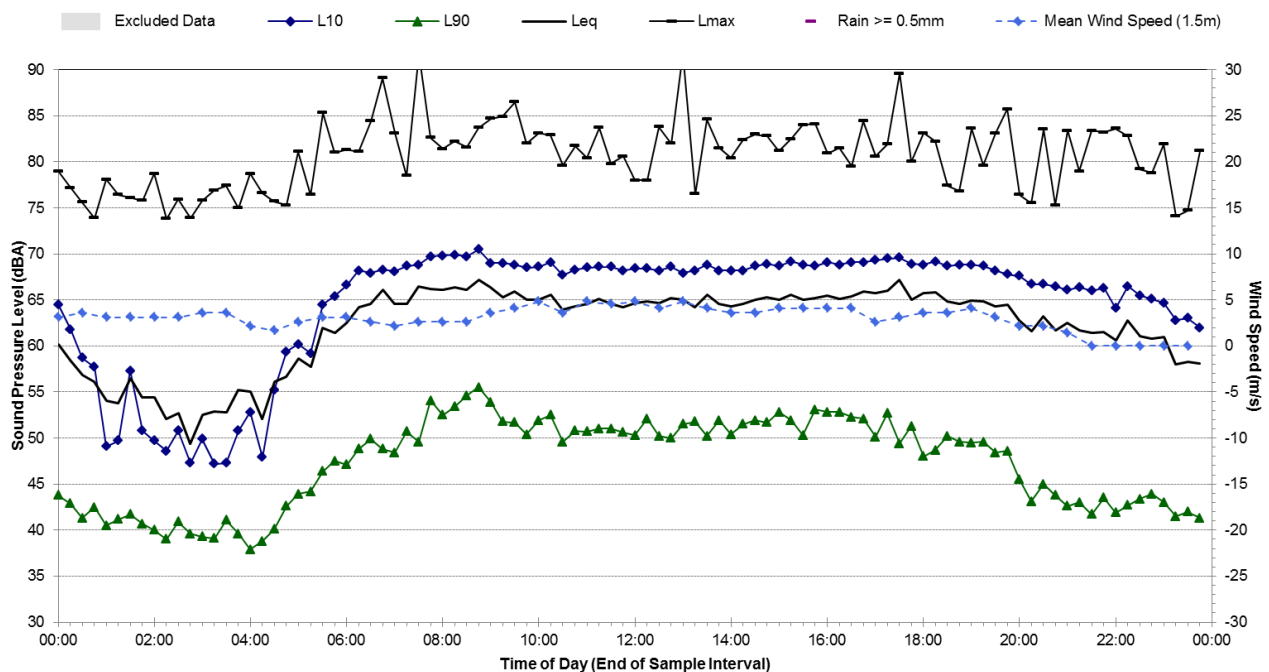
#### Statistical Ambient Noise Levels

ADD03 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD03 - Friday, 23 October 2015





## Appendix ADD03

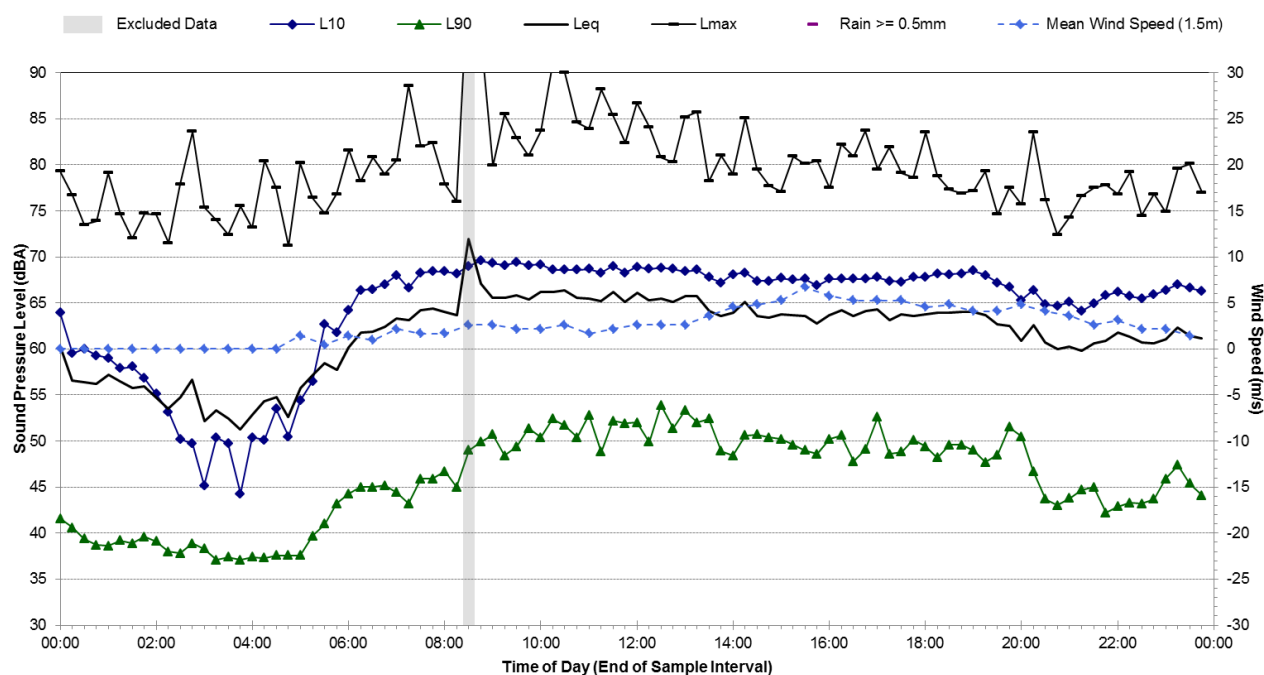
M4 East Additional Noise Logging Summary 2015

Page 6 of 7

### ADD03 Ambient Noise Monitoring Results

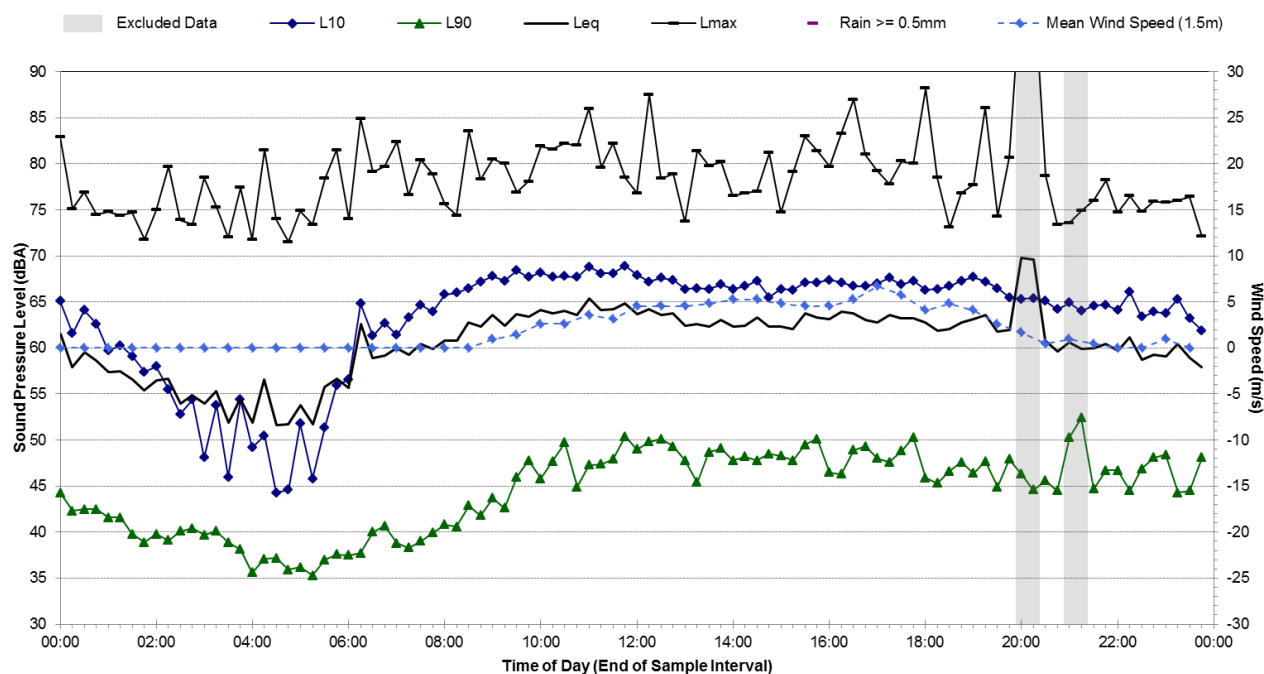
#### Statistical Ambient Noise Levels

ADD03 - Saturday, 24 October 2015



#### Statistical Ambient Noise Levels

ADD03 - Sunday, 25 October 2015





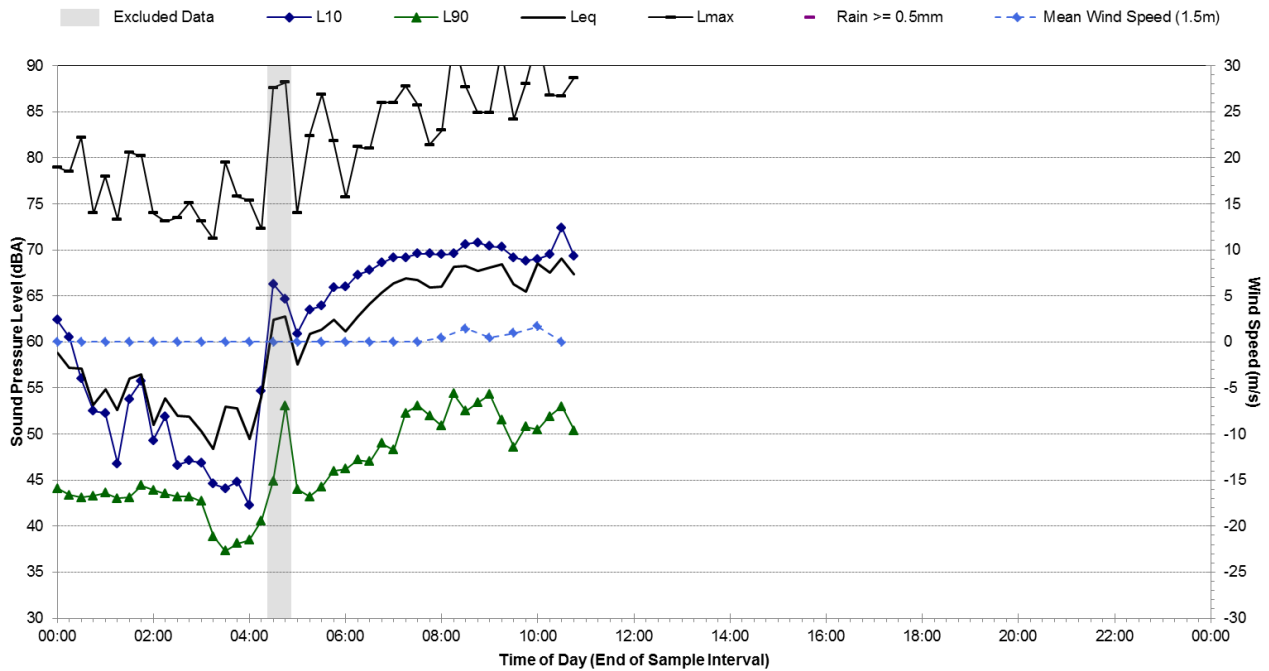
# Appendix ADD03

M4 East Additional Noise Logging Summary 2015  
Page 7 of 7

## ADD03 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels

ADD03 - Monday, 26 October 2015



# Appendix ADD04

M4 East Additional Noise Logging Summary 2015

Page 1 of 7

## ADD04 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                             |                                                             |                                                                                      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|--|
| Noise Monitoring Location: ADD04                                                                                                                                                                                                            |                                                             | Map of Noise Monitoring Location                                                     |  |
| Noise Monitoring Address: 18 Elliott St, North Strathfield                                                                                                                                                                                  |                                                             |   |  |
| Logger Device Type: ARL 316<br>Logger Serial No: 16-203-509                                                                                                                                                                                 |                                                             |                                                                                      |  |
| Ambient noise logger deployed immediately outside residential address 18 Elliott St, North Strathfield. Logger located in front yard on eastern side of property.                                                                           |                                                             |                                                                                      |  |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by natural noise such as birds during the daytime. Distant traffic noise was audible. Local traffic passbys on Pomeroy St were occasional. |                                                             |                                                                                      |  |
| Recorded Noise Levels (LAmax):<br>Distant road traffic: 44 dBA, Local road traffic: 52 dBA, Birds: 60-63 dBA                                                                                                                                |                                                             |  |  |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                    |                                                             |                                                                                      |  |
| Monitoring Period                                                                                                                                                                                                                           | Noise Level (dBA)                                           |                                                                                      |  |
|                                                                                                                                                                                                                                             | RBLLAeqL10L1                                                |                                                                                      |  |
| Daytime                                                                                                                                                                                                                                     | 42545362                                                    |                                                                                      |  |
| Evening                                                                                                                                                                                                                                     | 42555263                                                    |                                                                                      |  |
| Night-time                                                                                                                                                                                                                                  | 41504853                                                    |                                                                                      |  |
| 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                                                                                                                                                                                                                        | 54N/A (7 Day Average)                                       |                                                                                      |  |
| Daytime (7am-10pm)                                                                                                                                                                                                                          | 545454                                                      |                                                                                      |  |
| Night-time (10pm-7am)                                                                                                                                                                                                                       | 504950                                                      |                                                                                      |  |
| Attended Noise Measurement Results                                                                                                                                                                                                          |                                                             |                                                                                      |  |
| Date                                                                                                                                                                                                                                        | Start Time                                                  | Measured Noise Level (dBA)                                                           |  |
|                                                                                                                                                                                                                                             |                                                             | LA90LAeqLAmax                                                                        |  |
| 16/10/2015                                                                                                                                                                                                                                  | 16:35                                                       | 444963                                                                               |  |

# Appendix ADD04

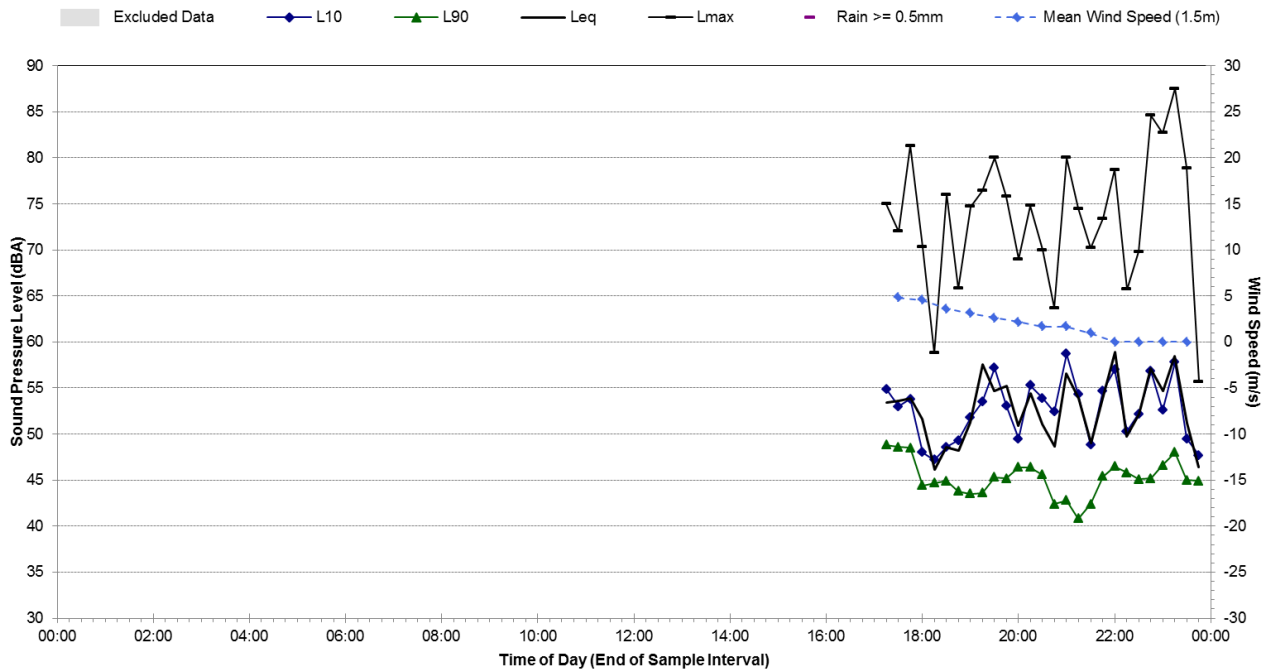
M4 East Additional Noise Logging Summary 2015

Page 2 of 7

## ADD04 Ambient Noise Monitoring Results

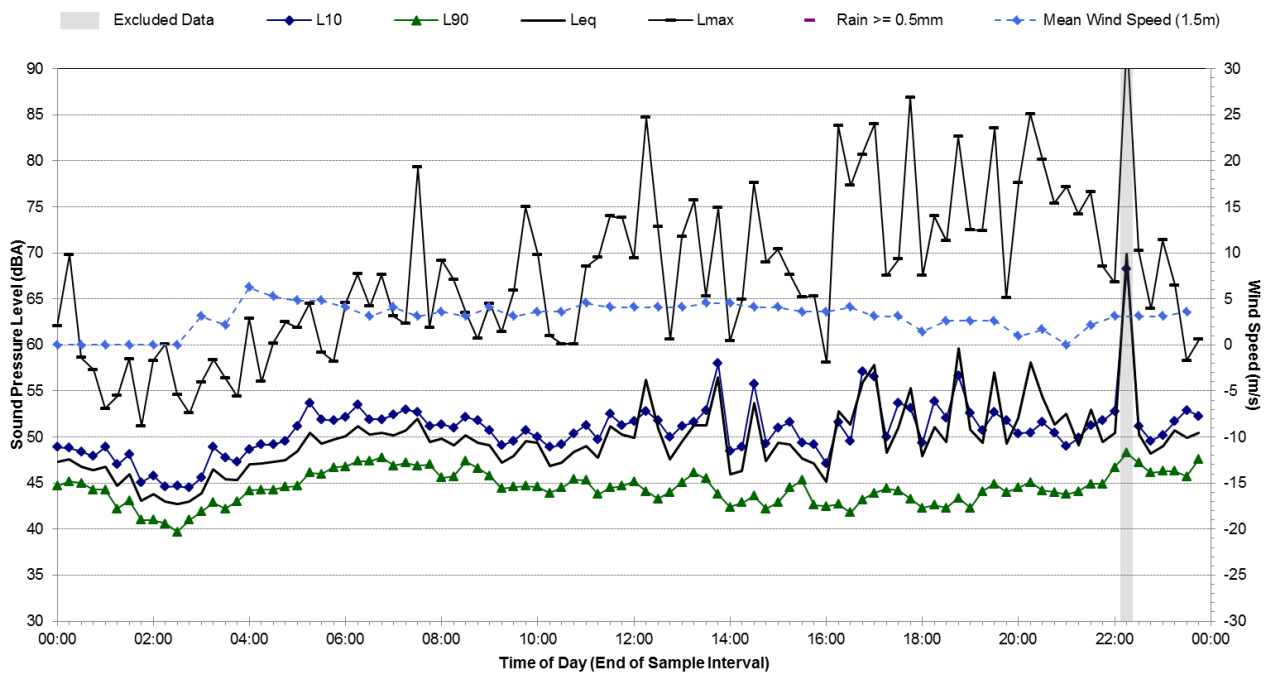
### Statistical Ambient Noise Levels

ADD04 - Friday, 16 October 2015



### Statistical Ambient Noise Levels

ADD04 - Saturday, 17 October 2015



# Appendix ADD04

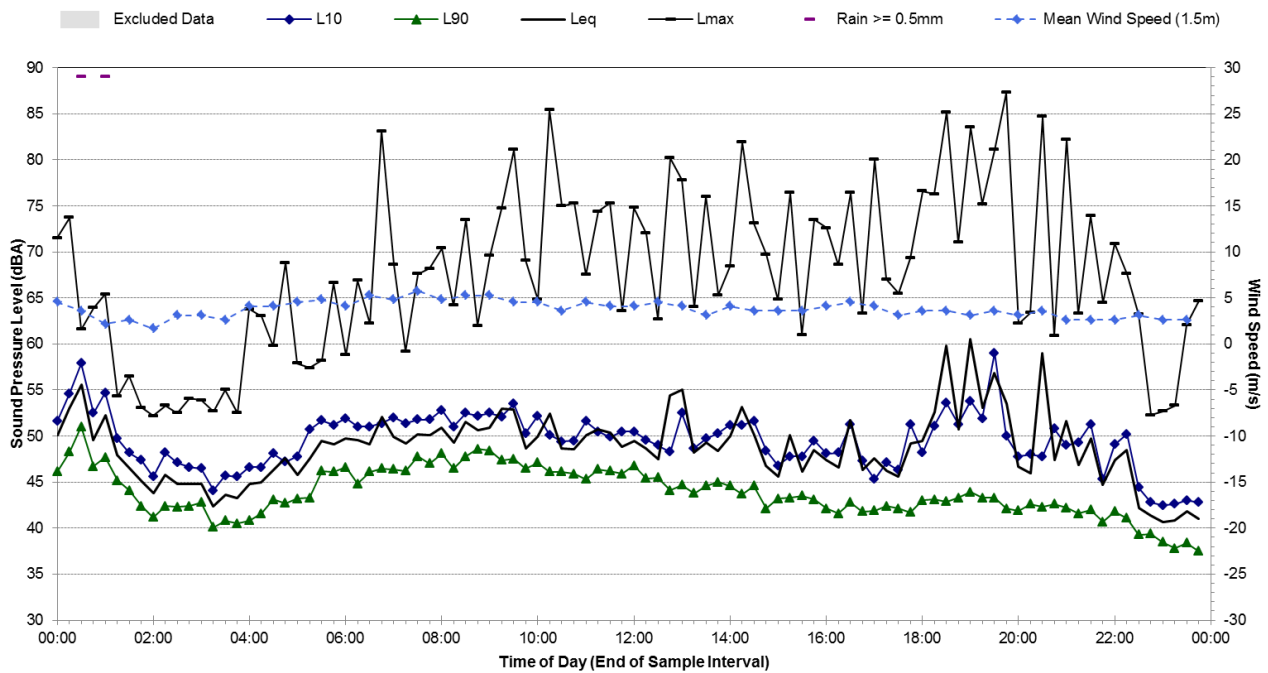
M4 East Additional Noise Logging Summary 2015

Page 3 of 7

## ADD04 Ambient Noise Monitoring Results

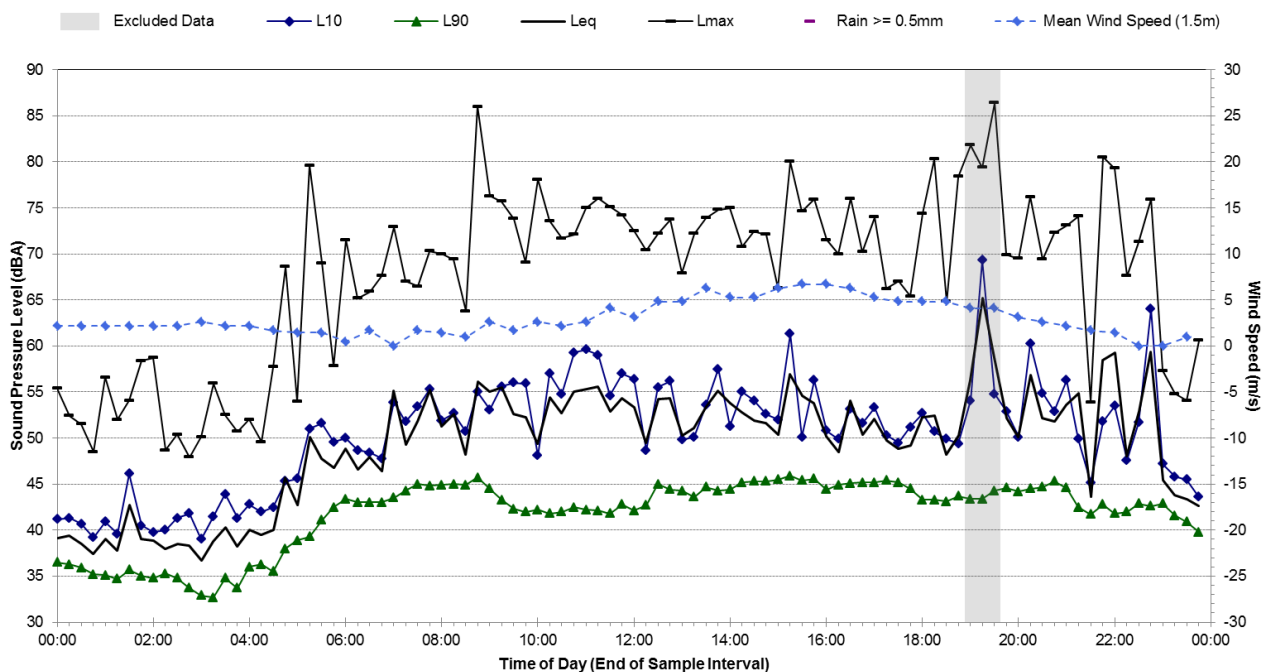
### Statistical Ambient Noise Levels

ADD04 - Sunday, 18 October 2015



### Statistical Ambient Noise Levels

ADD04 - Monday, 19 October 2015



## Appendix ADD04

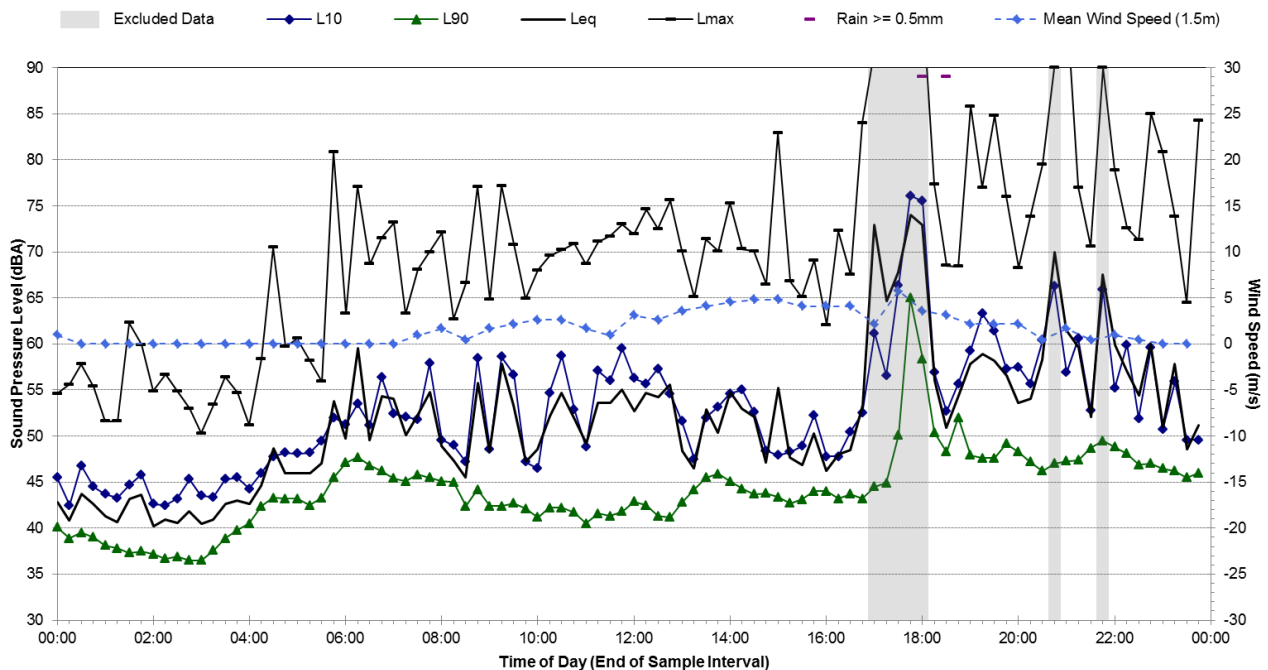
M4 East Additional Noise Logging Summary 2015

Page 4 of 7

### ADD04 Ambient Noise Monitoring Results

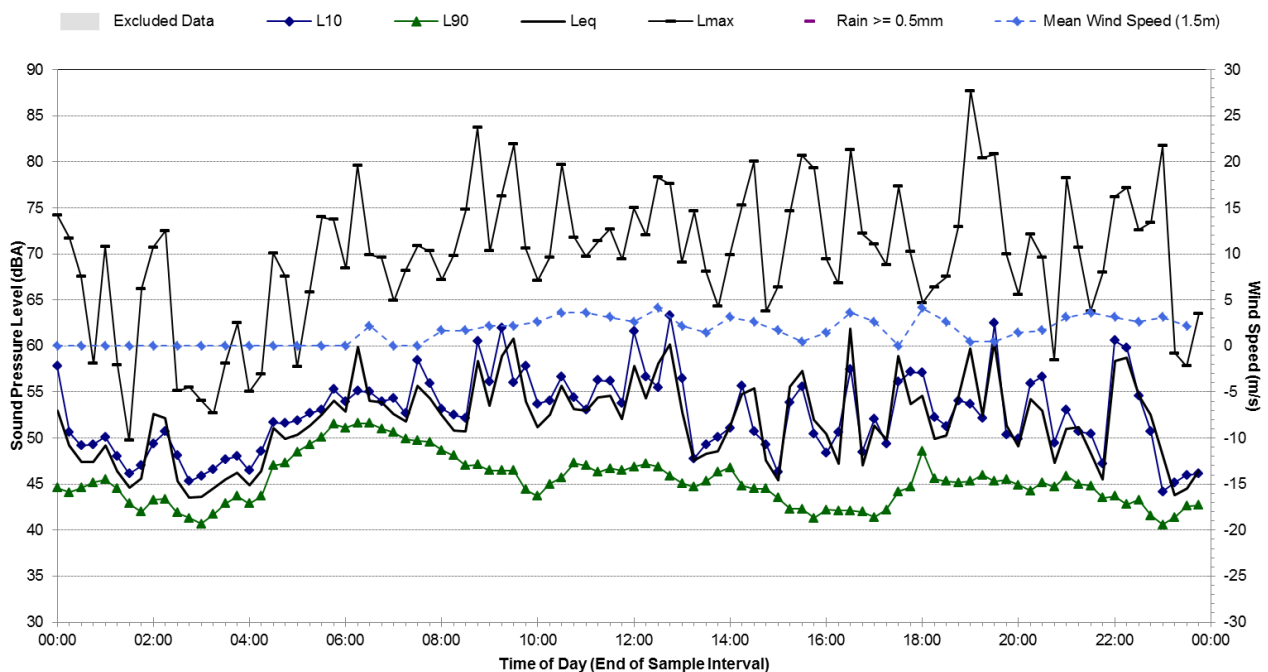
#### Statistical Ambient Noise Levels

ADD04 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD04 - Wednesday, 21 October 2015





## Appendix ADD04

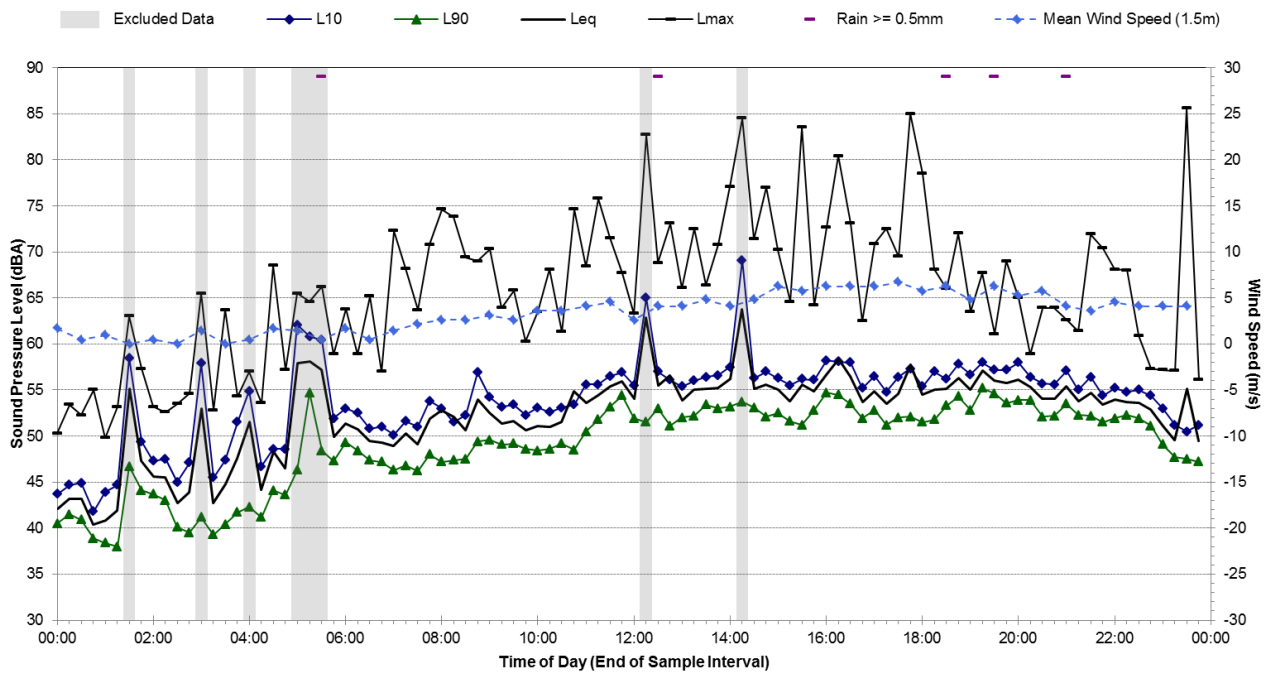
M4 East Additional Noise Logging Summary 2015

Page 5 of 7

### ADD04 Ambient Noise Monitoring Results

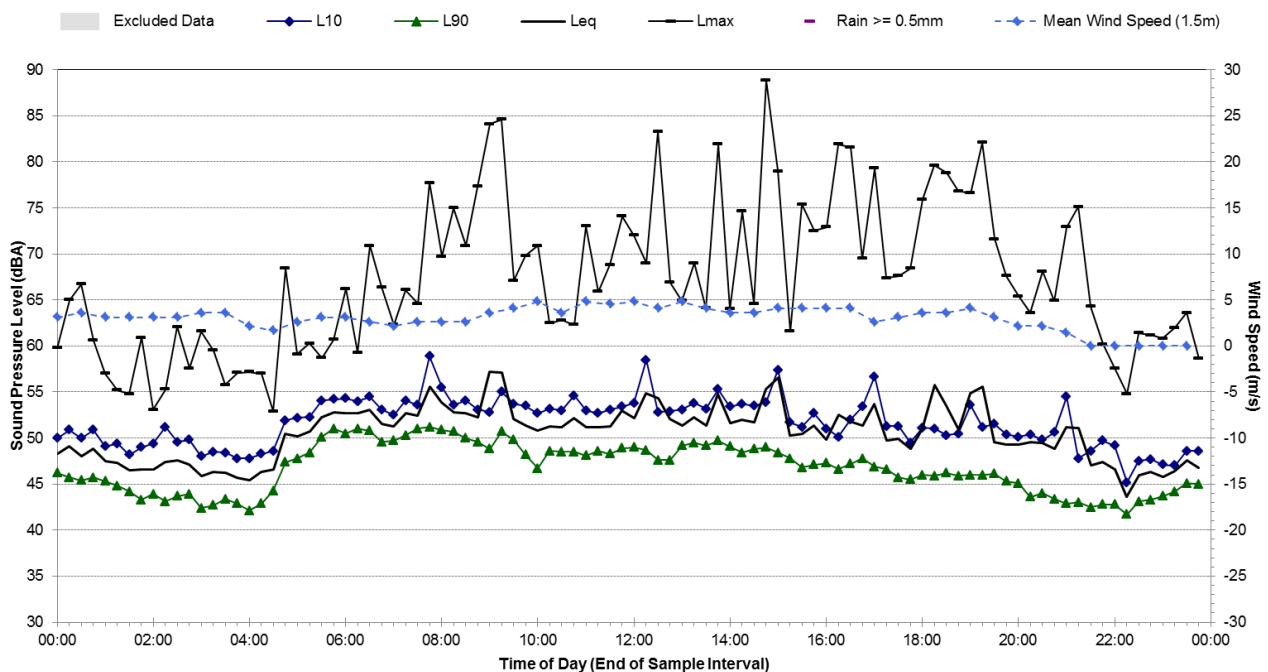
#### Statistical Ambient Noise Levels

ADD04 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD04 - Friday, 23 October 2015





# Appendix ADD04

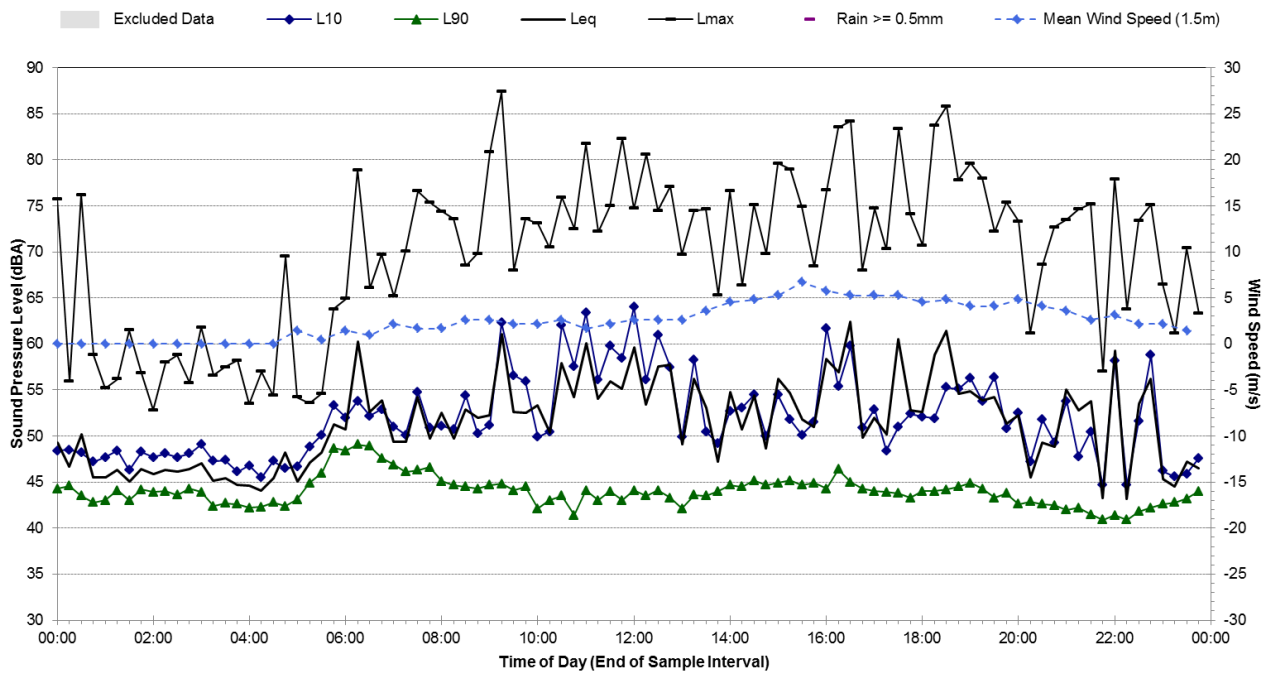
M4 East Additional Noise Logging Summary 2015

Page 6 of 7

## ADD04 Ambient Noise Monitoring Results

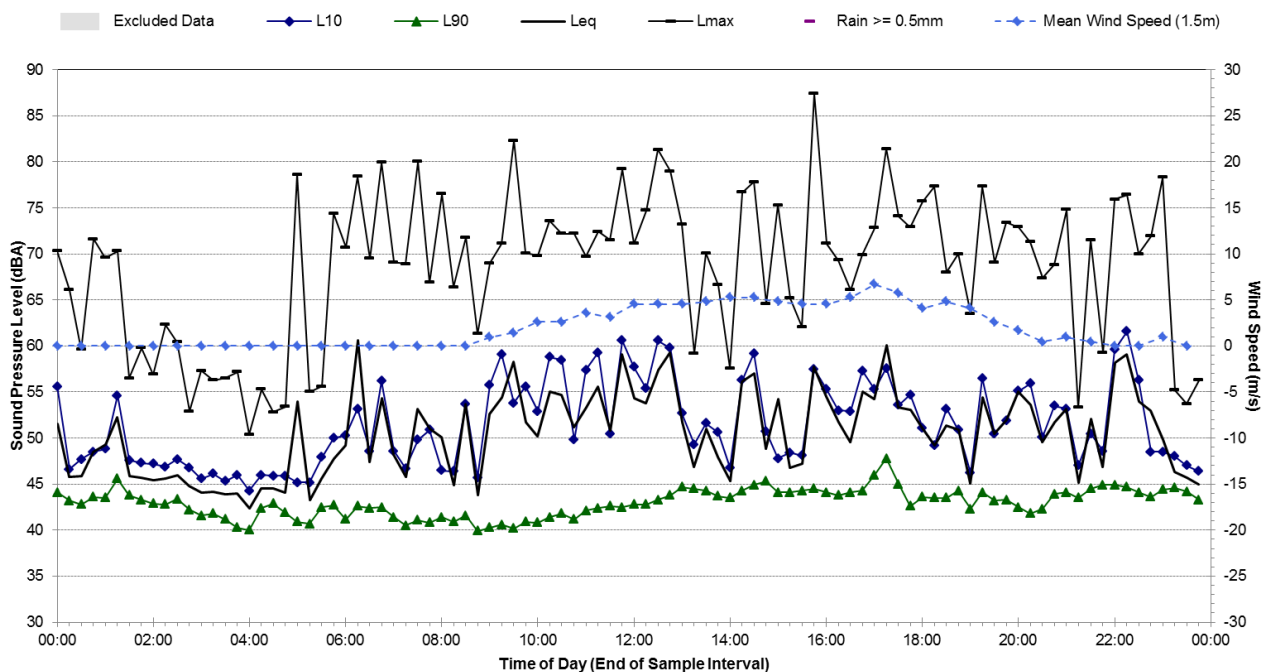
### Statistical Ambient Noise Levels

ADD04 - Saturday, 24 October 2015



### Statistical Ambient Noise Levels

ADD04 - Sunday, 25 October 2015



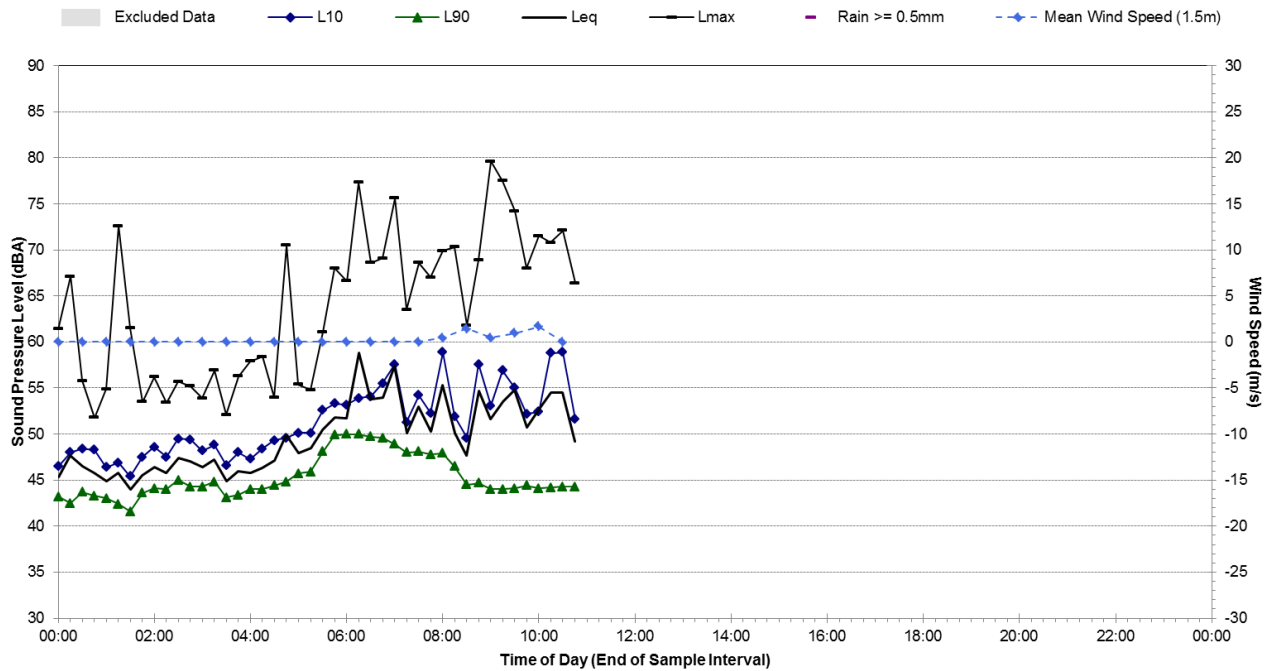
# Appendix ADD04

M4 East Additional Noise Logging Summary 2015  
Page 7 of 7

## ADD04 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels

ADD04 - Monday, 26 October 2015

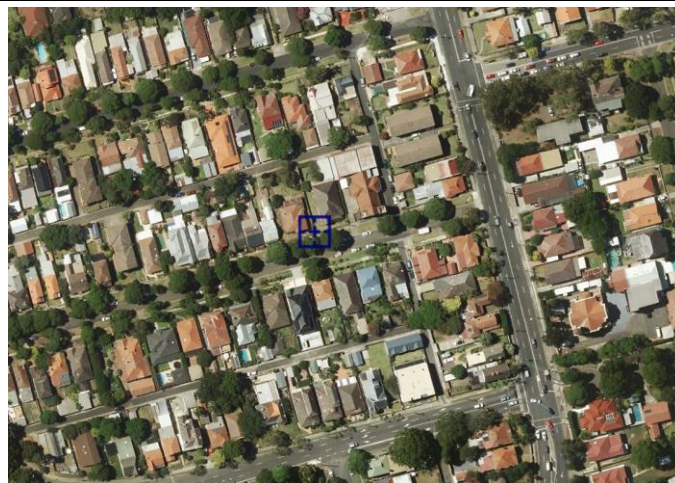


# Appendix ADD05

M4 East Additional Noise Logging Summary 2015

Page 1 of 7

## ADD05 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                         |                      |                                                                                     |                     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|---------------------|-------|
| Noise Monitoring Location: ADD05                                                                                                                                                                                        |                      | Map of Noise Monitoring Location                                                    |                     |       |
| Noise Monitoring Address: 5 Carrington St, North Strathfield                                                                                                                                                            |                      |  |                     |       |
| Logger Device Type: Svantek 957<br>Logger Serial No: 23241                                                                                                                                                              |                      |                                                                                     |                     |       |
| Ambient noise logger deployed immediately outside residential address 5 Carrington St, North Strathfield.<br>Logger located in front yard on southern side of property.                                                 |                      |                                                                                     |                     |       |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by distant road traffic noise from Concord Rd during the daytime. Local traffic passbys on Pomeroy St were occasional. |                      |                                                                                     |                     |       |
| Recorded Noise Levels (LAmax):<br>Distant road traffic Concord Rd: 44 dBA, Local road traffic: 51-57 dBA, Air traffic: 63-83 dBA                                                                                        |                      |                                                                                     |                     |       |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                |                      |                                                                                     |                     |       |
| Monitoring Period                                                                                                                                                                                                       | Noise Level (dBA)    |                                                                                     |                     |       |
|                                                                                                                                                                                                                         | RBL                  | LAeq                                                                                | L10                 | L1    |
| Daytime                                                                                                                                                                                                                 | 43                   | 55                                                                                  | 56                  | 64    |
| Evening                                                                                                                                                                                                                 | 42                   | 54                                                                                  | 53                  | 63    |
| Night-time                                                                                                                                                                                                              | 39                   | 50                                                                                  | 48                  | 54    |
| 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                                                                                                                                                                                                    | 5                    | 4                                                                                   | N/A (7 Day Average) |       |
| Daytime (7am-10pm)                                                                                                                                                                                                      | 55                   | 54                                                                                  | 55                  |       |
| Night-time (10pm-7am)                                                                                                                                                                                                   | 50                   | 49                                                                                  | 50                  |       |
| Attended Noise Measurement Results                                                                                                                                                                                      |                      |                                                                                     |                     |       |
| Date                                                                                                                                                                                                                    | Start Time           | Measured Noise Level (dBA)                                                          |                     |       |
|                                                                                                                                                                                                                         |                      | LA90                                                                                | LAeq                | LAmix |
| 16/10/2015                                                                                                                                                                                                              | 12:07                | 42                                                                                  | 62                  | 83    |

|                                                                                      |  |
|--------------------------------------------------------------------------------------|--|
| Photo of Noise Monitoring Location                                                   |  |
|  |  |

# Appendix ADD05

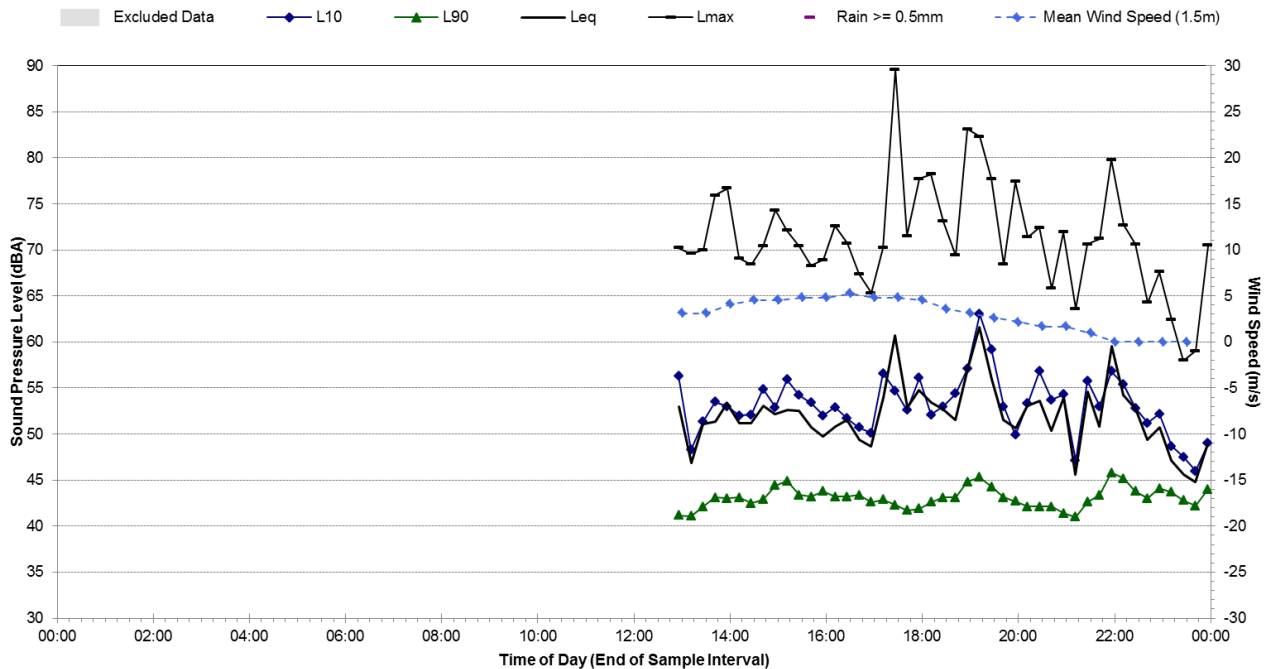
M4 East Additional Noise Logging Summary 2015

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## ADD05 Ambient Noise Monitoring Results

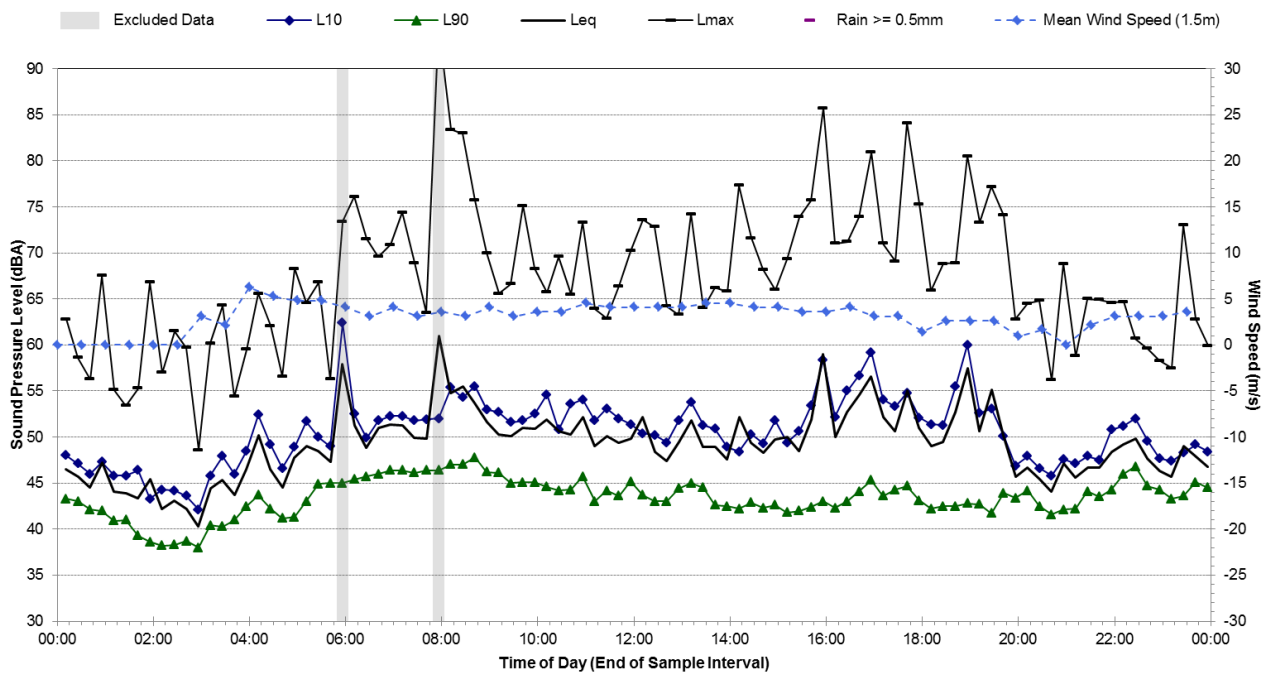
### Statistical Ambient Noise Levels

ADD05 - Friday, 16 October 2015



### Statistical Ambient Noise Levels

ADD05 - Saturday, 17 October 2015



# Appendix ADD05

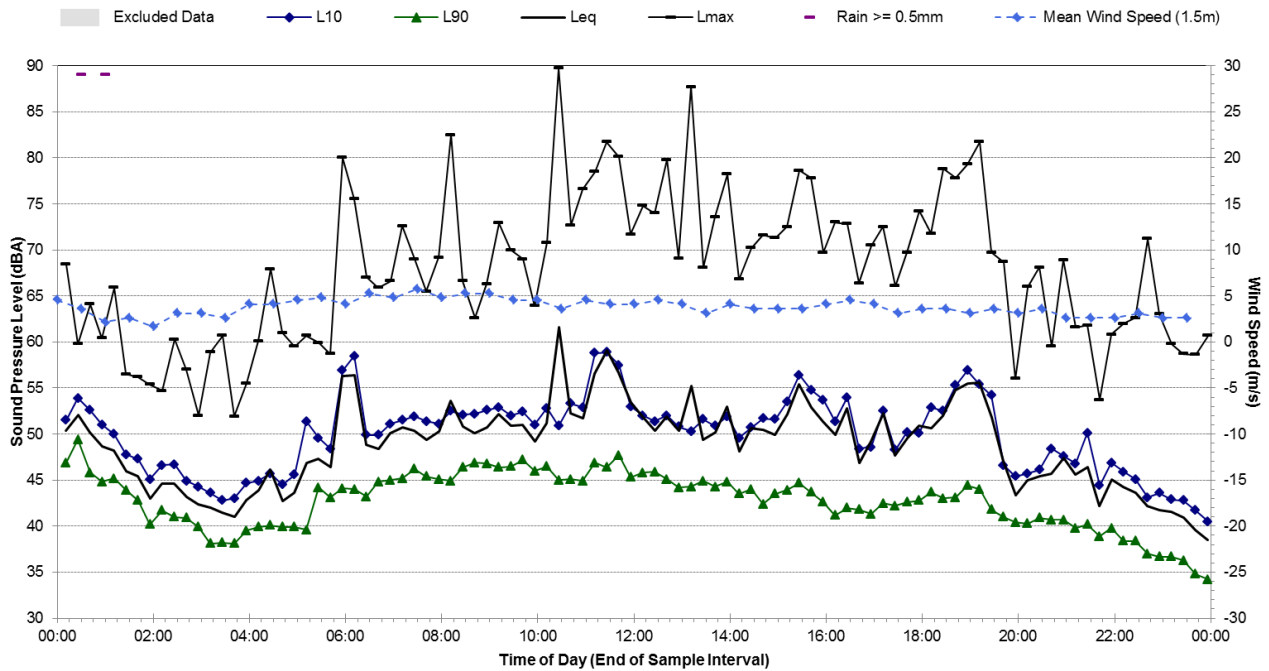
M4 East Additional Noise Logging Summary 2015

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## ADD05 Ambient Noise Monitoring Results

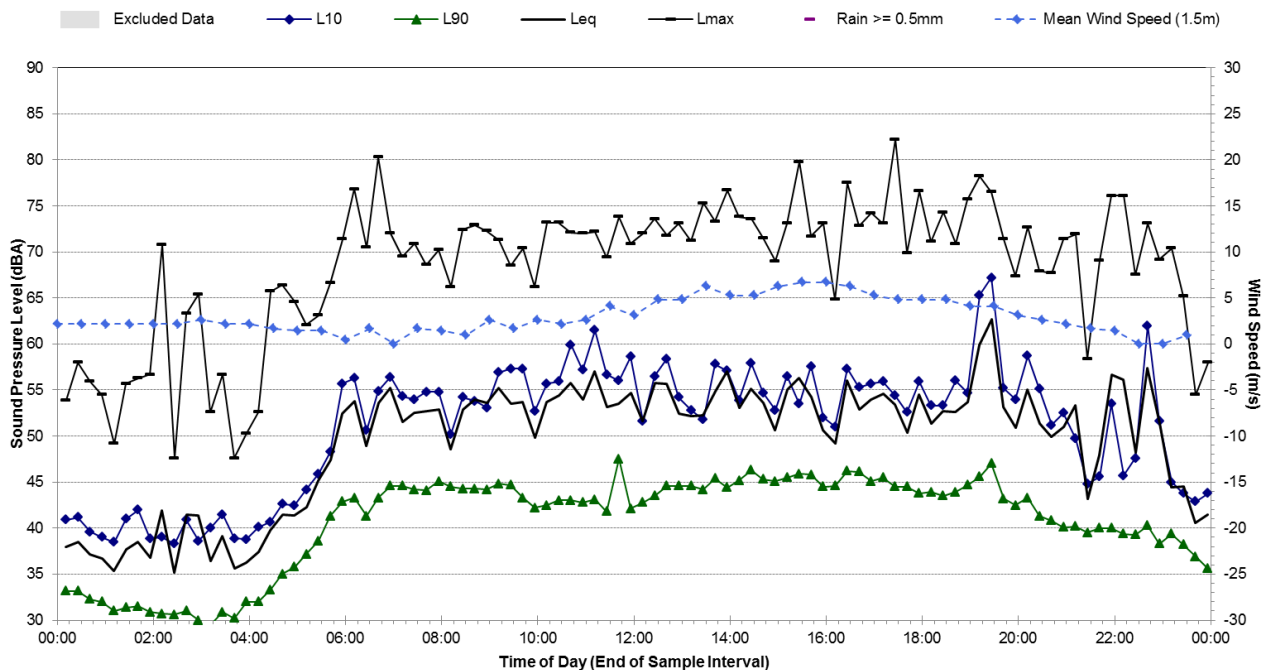
### Statistical Ambient Noise Levels

ADD05 - Sunday, 18 October 2015



### Statistical Ambient Noise Levels

ADD05 - Monday, 19 October 2015



## Appendix ADD05

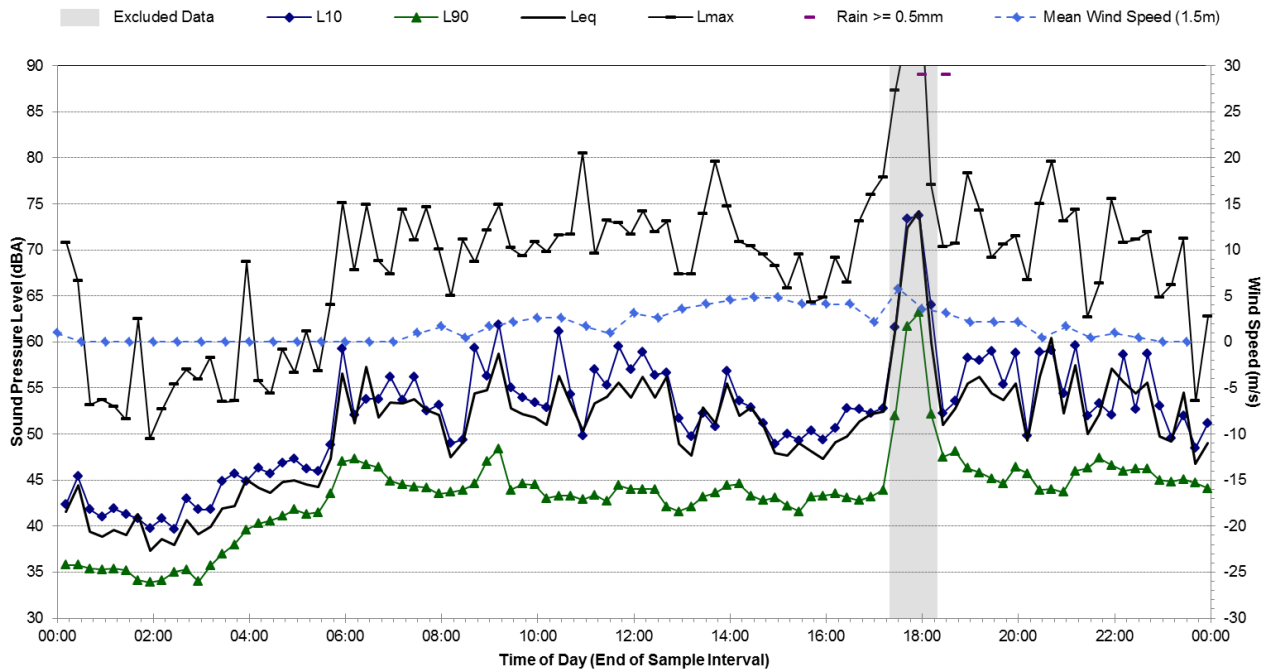
M4 East Additional Noise Logging Summary 2015

Page 4 of 7

### ADD05 Ambient Noise Monitoring Results

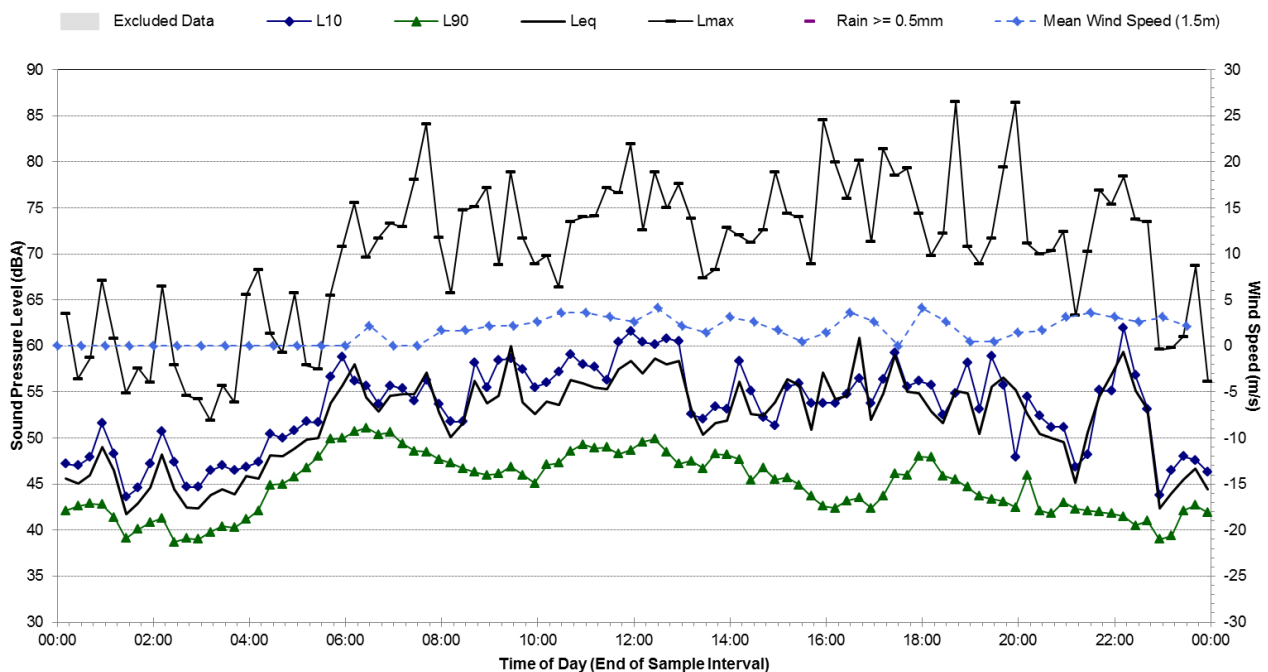
#### Statistical Ambient Noise Levels

ADD05 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD05 - Wednesday, 21 October 2015





# Appendix ADD05

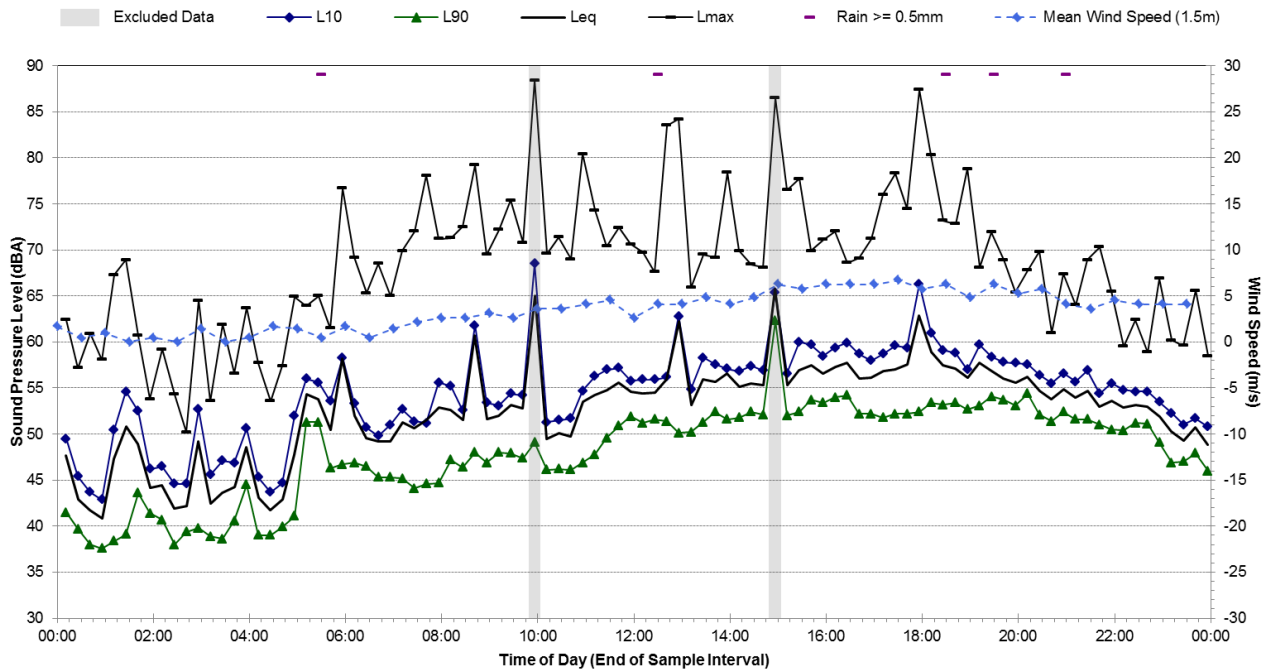
M4 East Additional Noise Logging Summary 2015

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## ADD05 Ambient Noise Monitoring Results

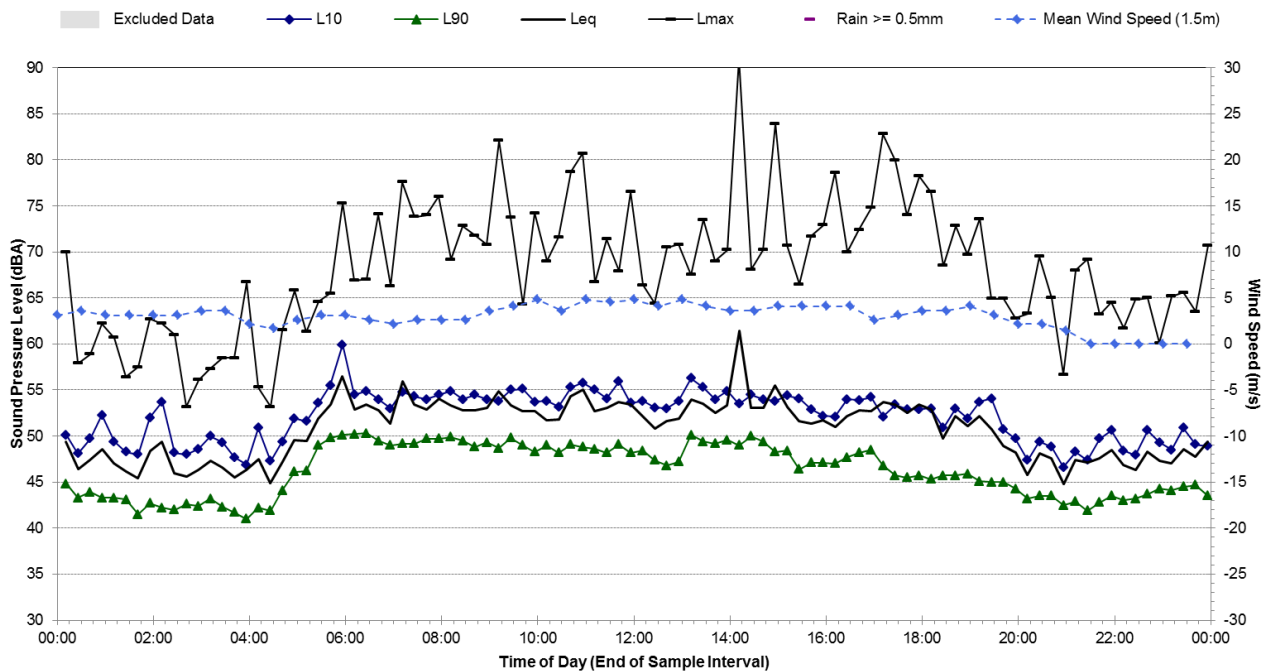
### Statistical Ambient Noise Levels

ADD05 - Thursday, 22 October 2015



### Statistical Ambient Noise Levels

ADD05 - Friday, 23 October 2015



# Appendix ADD05

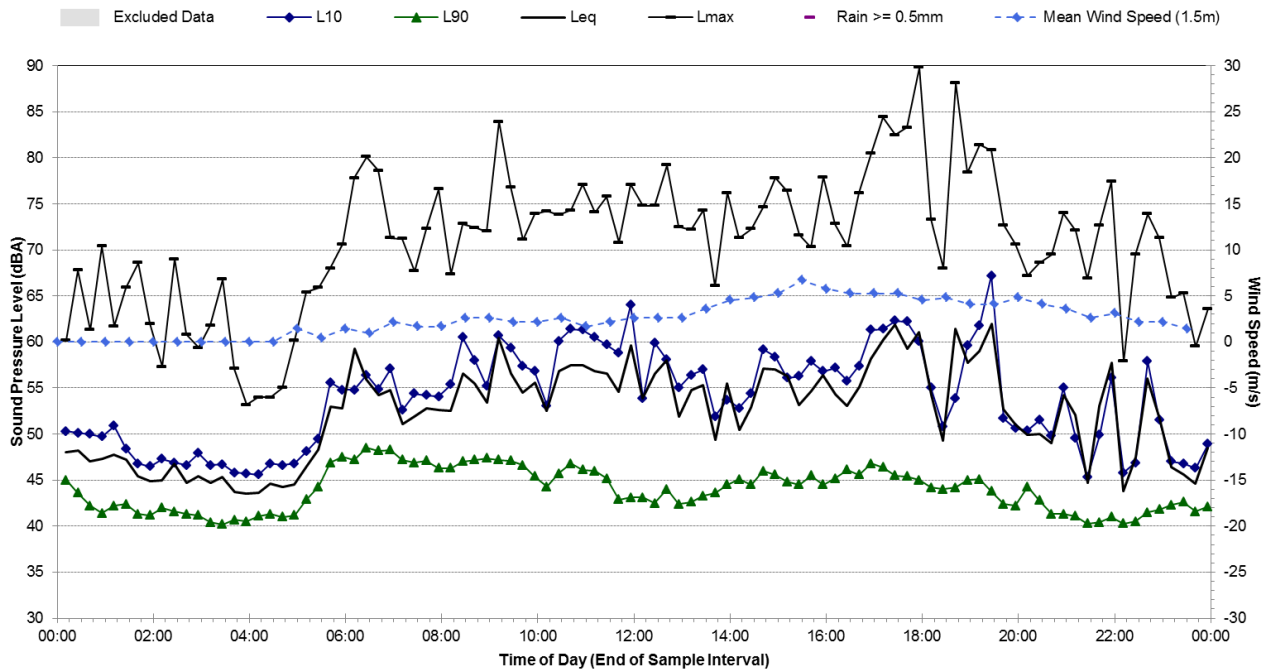
M4 East Additional Noise Logging Summary 2015

Page 6 of 7

## ADD05 Ambient Noise Monitoring Results

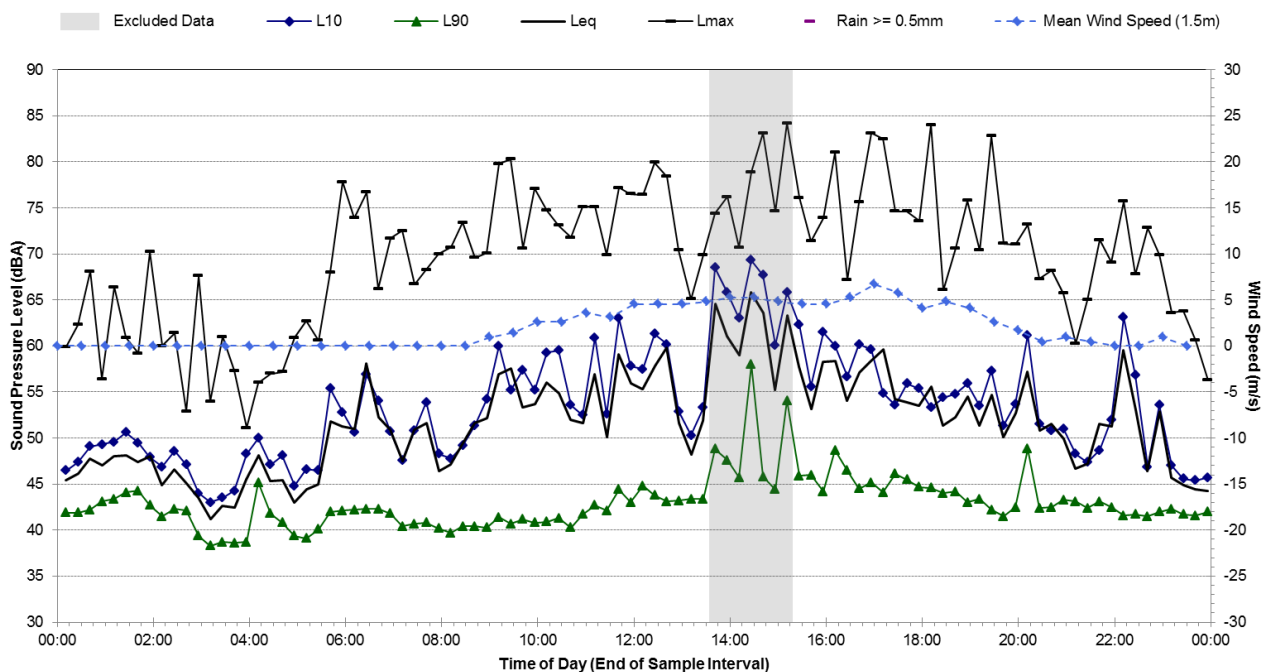
### Statistical Ambient Noise Levels

ADD05 - Saturday, 24 October 2015



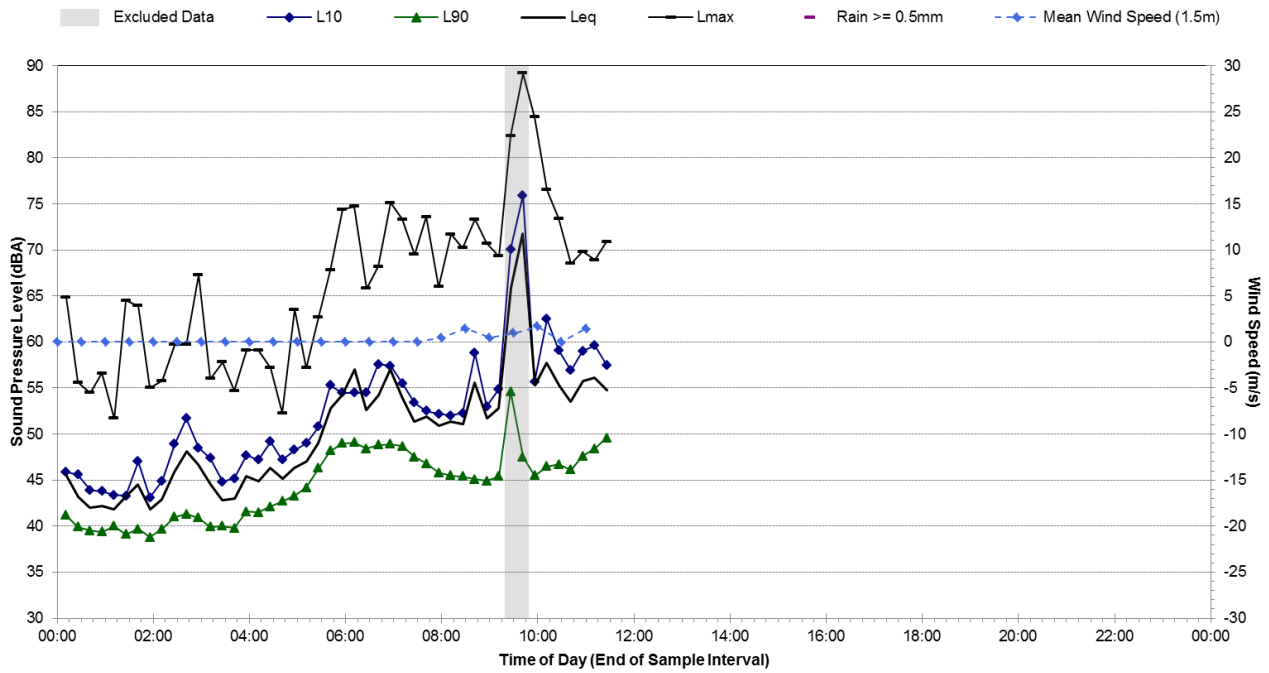
### Statistical Ambient Noise Levels

ADD05 - Sunday, 25 October 2015



## Statistical Ambient Noise Levels

ADD05 - Monday, 26 October 2015

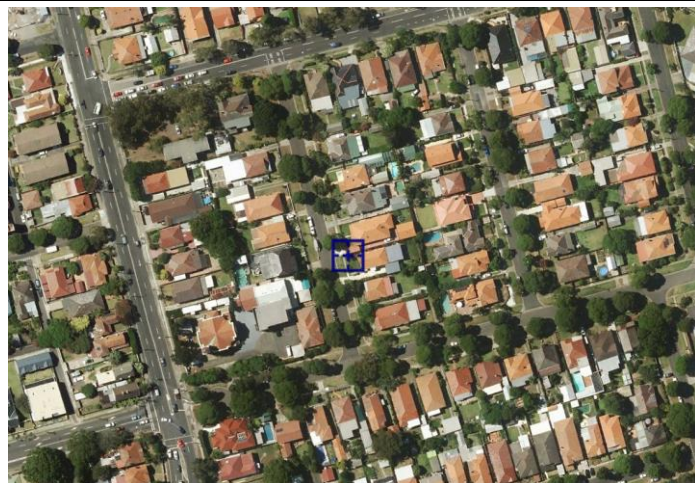


# Appendix ADD06

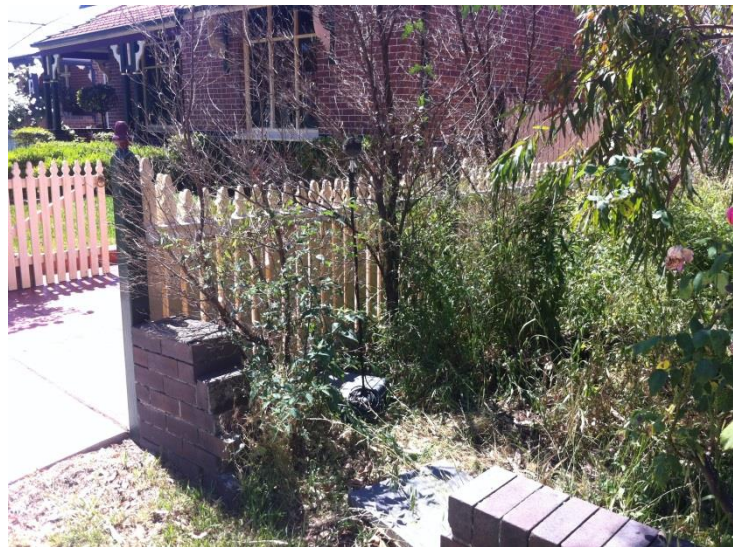
M4 East Additional Noise Logging Summary 2015

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## ADD06 Ambient Noise Monitoring Results

|                                                                                                                                                                                                   |  |                                                                                     |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|--|
| Noise Monitoring Location: ADD06                                                                                                                                                                  |  | Map of Noise Monitoring Location                                                    |  |  |
| Noise Monitoring Address: 5 Thornleigh Ave, Concord                                                                                                                                               |  |  |  |  |
| Logger Device Type: Svantek 957                                                                                                                                                                   |  |                                                                                     |  |  |
| Logger Serial No: 23243                                                                                                                                                                           |  |                                                                                     |  |  |
| Ambient noise logger deployed immediately outside residential address 5 Thornleigh Ave, Concord. Logger located in front yard on western side of property.                                        |  |                                                                                     |  |  |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by local road traffic noise and distant road traffic noise from Concord Road during the daytime. |  |                                                                                     |  |  |
| Recorded Noise Levels (LAm <sub>ax</sub> ):                                                                                                                                                       |  |                                                                                     |  |  |
| Distant road traffic Concord Rd: 41 dBA, Local road traffic: 64-68 dBA, Air traffic: 72-73 dBA                                                                                                    |  |                                                                                     |  |  |

| Ambient Noise Logging Results – INP Defined Time Periods |                                   |                                   |                                  |                   |
|----------------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-------------------|
| Monitoring Period                                        | Noise Level (dBA)                 |                                   |                                  |                   |
|                                                          | RBL                               | LA <sub>eq</sub>                  | L10                              | L1                |
| Daytime                                                  | 42                                | 55                                | 57                               | 67                |
| Evening                                                  | 40                                | 54                                | 54                               | 65                |
| Night-time                                               | 38                                | 49                                | 45                               | 53                |
| Ambient Noise Logging Results – RNP Defined Time Periods |                                   |                                   |                                  |                   |
| Monitoring Period                                        | Noise Level (dBA)                 |                                   |                                  |                   |
|                                                          | Weekday LA <sub>eq</sub> (Period) | Weekend LA <sub>eq</sub> (Period) | Weekly LA <sub>eq</sub> (Period) |                   |
| Number of Valid Days                                     | 5                                 | 4                                 | N/A (7 Day Average)              |                   |
| Daytime (7am-10pm)                                       | 55                                | 55                                | 55                               |                   |
| Night-time (10pm-7am)                                    | 49                                | 49                                | 49                               |                   |
| Attended Noise Measurement Results                       |                                   |                                   |                                  |                   |
| Date                                                     | Start Time                        | Measured Noise Level (dBA)        |                                  |                   |
|                                                          |                                   | LA90                              | LA <sub>eq</sub>                 | LAm <sub>ax</sub> |
| 16/10/2015                                               | 12:42                             | 40                                | 53                               | 73                |

| Photo of Noise Monitoring Location                                                   |  |  |  |  |
|--------------------------------------------------------------------------------------|--|--|--|--|
|  |  |  |  |  |

# Appendix ADD06

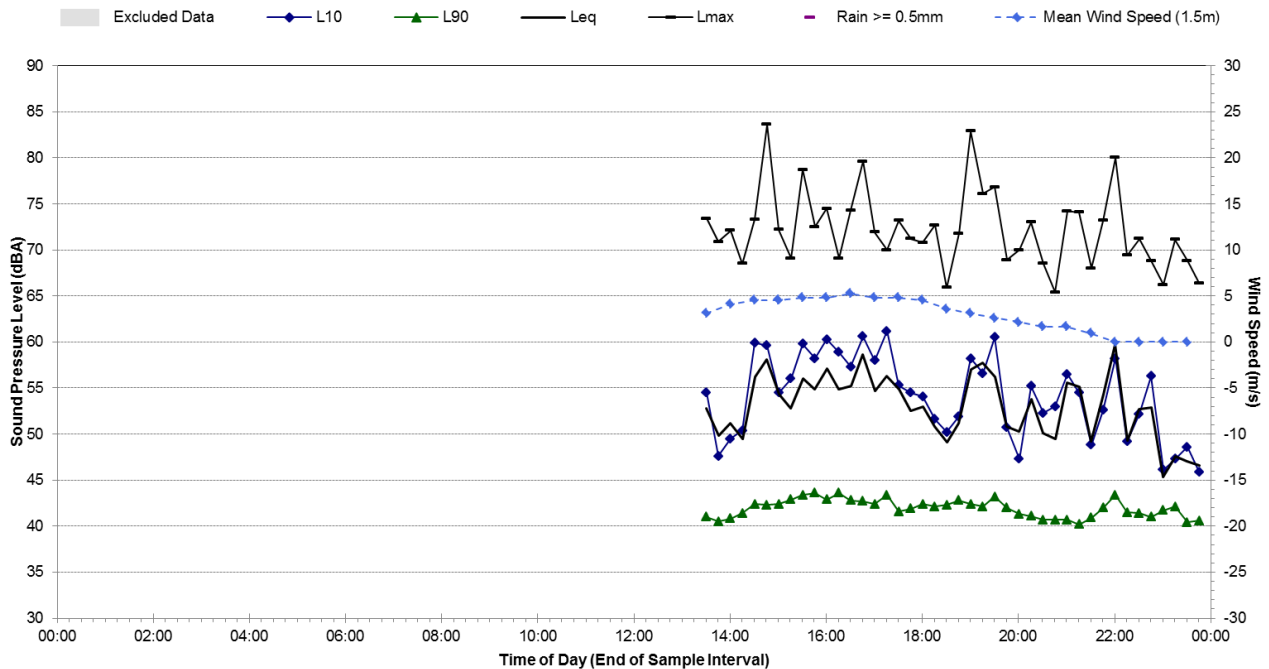
M4 East Additional Noise Logging Summary 2015

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## ADD06 Ambient Noise Monitoring Results

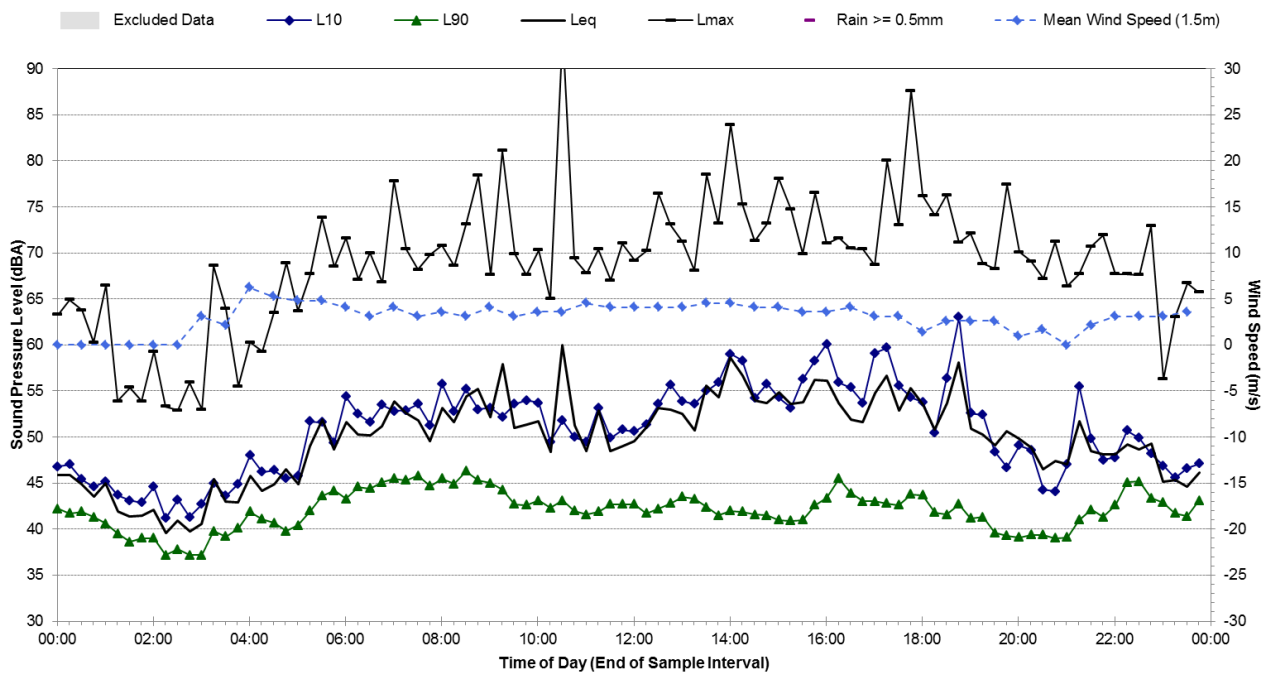
### Statistical Ambient Noise Levels

ADD06 - Friday, 16 October 2015



### Statistical Ambient Noise Levels

ADD06 - Saturday, 17 October 2015





# Appendix ADD06

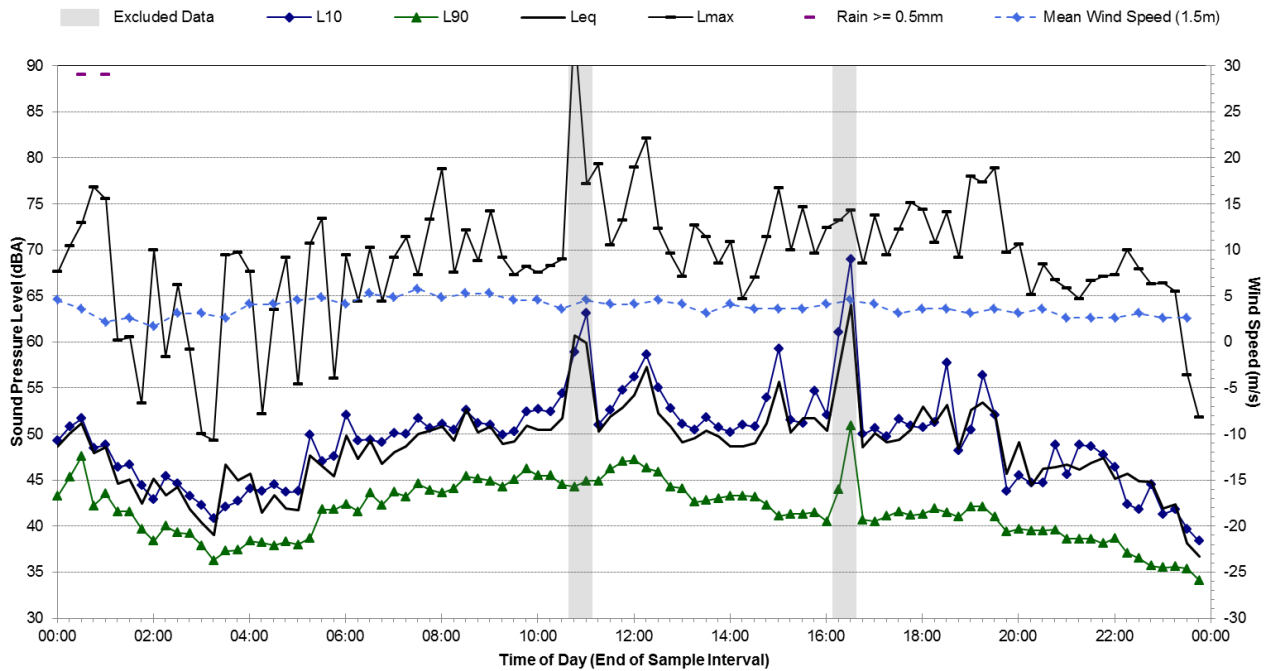
M4 East Additional Noise Logging Summary 2015

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## ADD06 Ambient Noise Monitoring Results

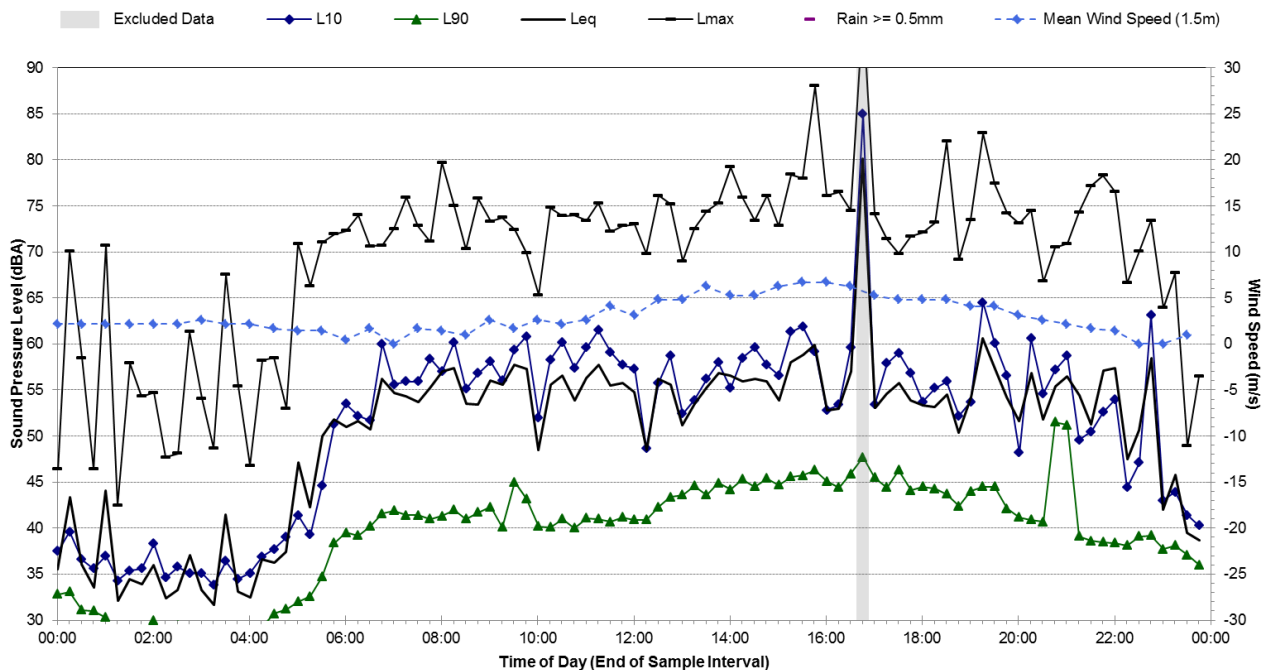
### Statistical Ambient Noise Levels

ADD06 - Sunday, 18 October 2015



### Statistical Ambient Noise Levels

ADD06 - Monday, 19 October 2015





## Appendix ADD06

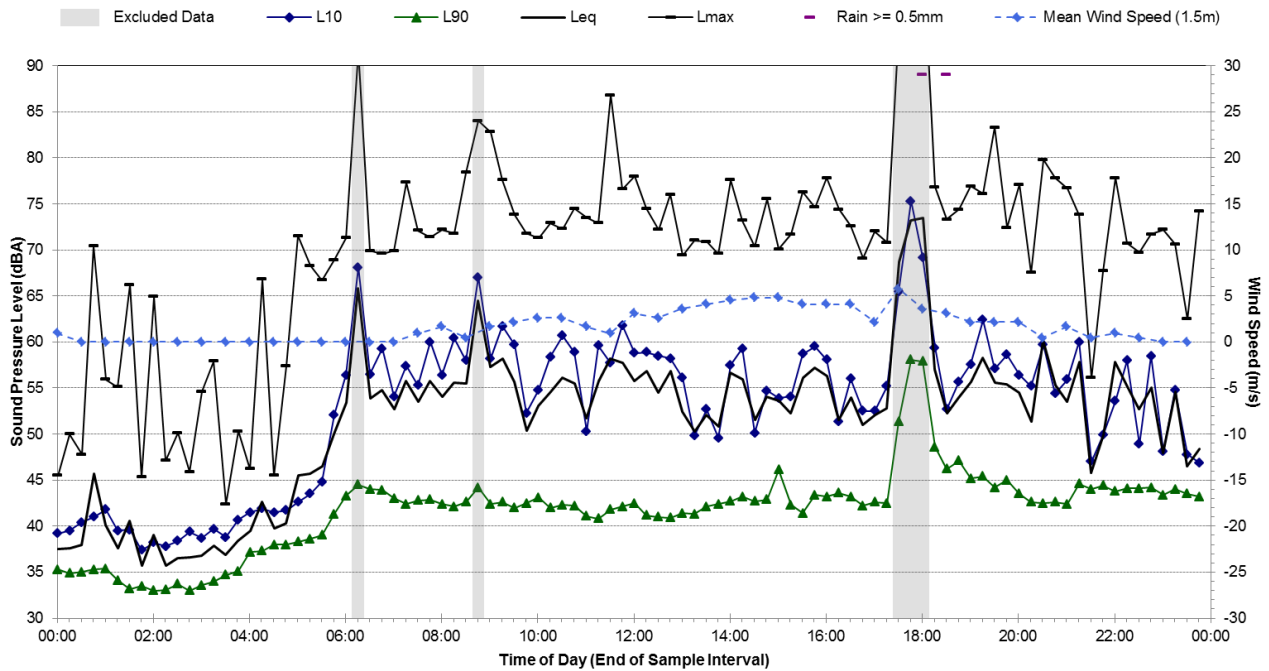
M4 East Additional Noise Logging Summary 2015

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### ADD06 Ambient Noise Monitoring Results

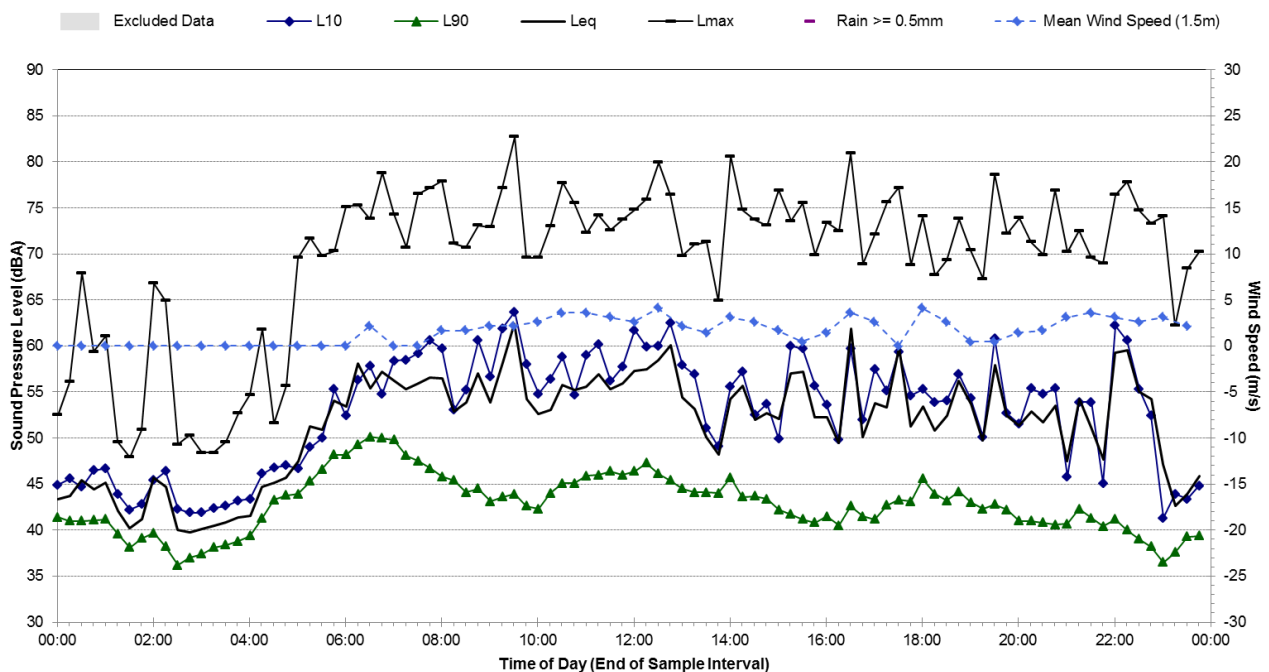
#### Statistical Ambient Noise Levels

ADD06 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD06 - Wednesday, 21 October 2015



# Appendix ADD06

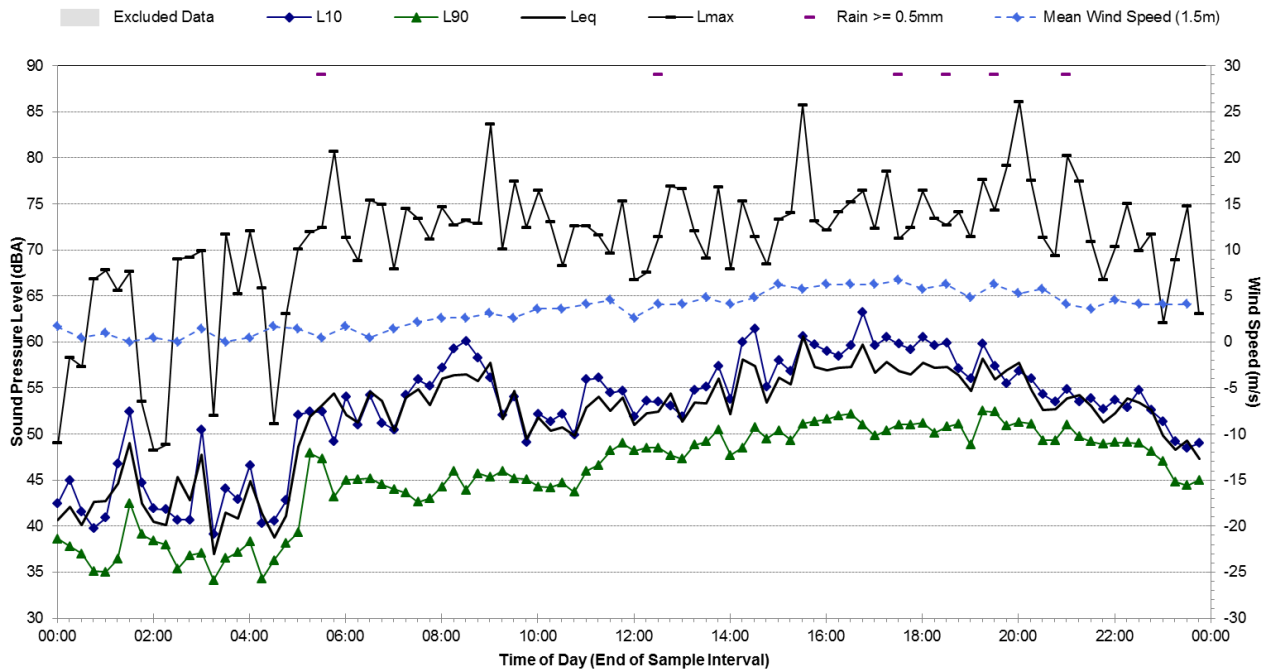
M4 East Additional Noise Logging Summary 2015

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## ADD06 Ambient Noise Monitoring Results

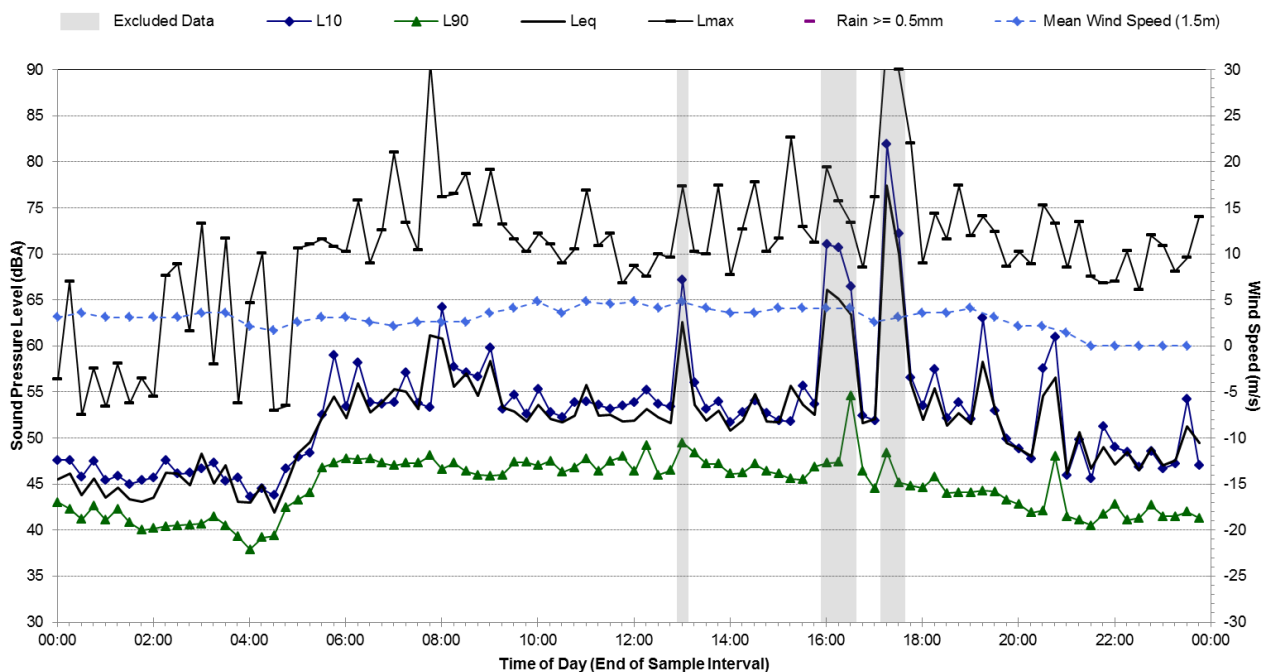
### Statistical Ambient Noise Levels

ADD06 - Thursday, 22 October 2015



### Statistical Ambient Noise Levels

ADD06 - Friday, 23 October 2015



# Appendix ADD06

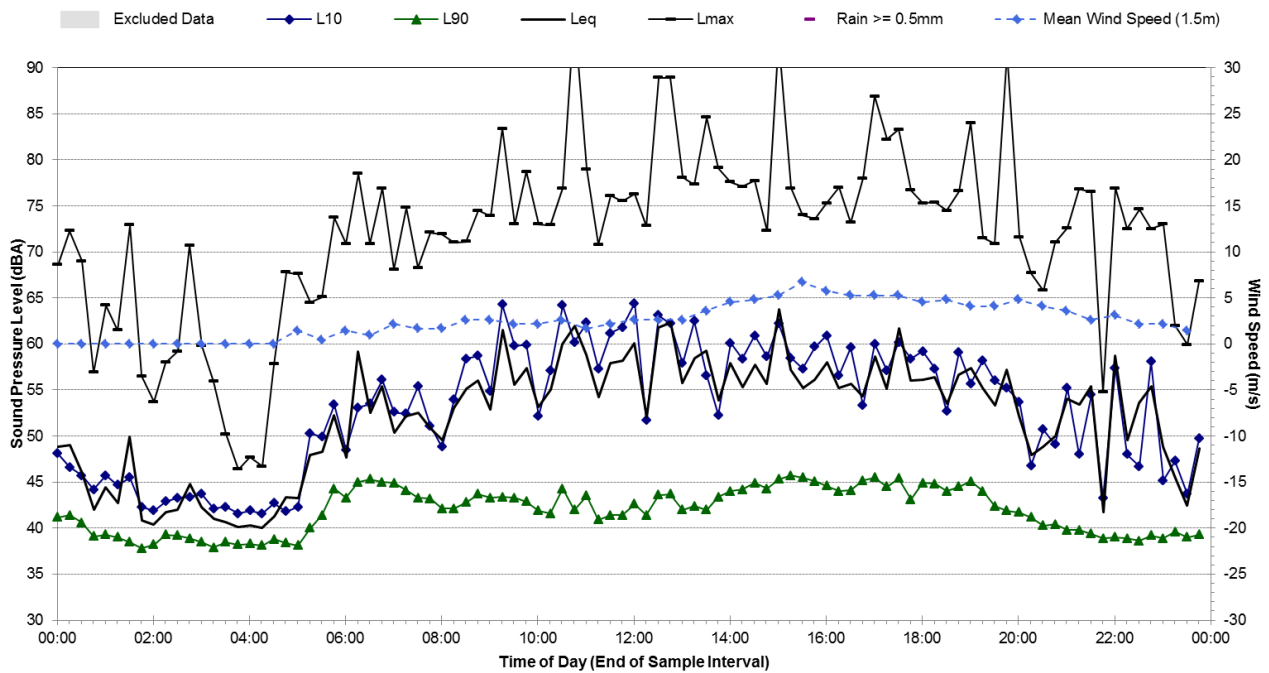
M4 East Additional Noise Logging Summary 2015

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## ADD06 Ambient Noise Monitoring Results

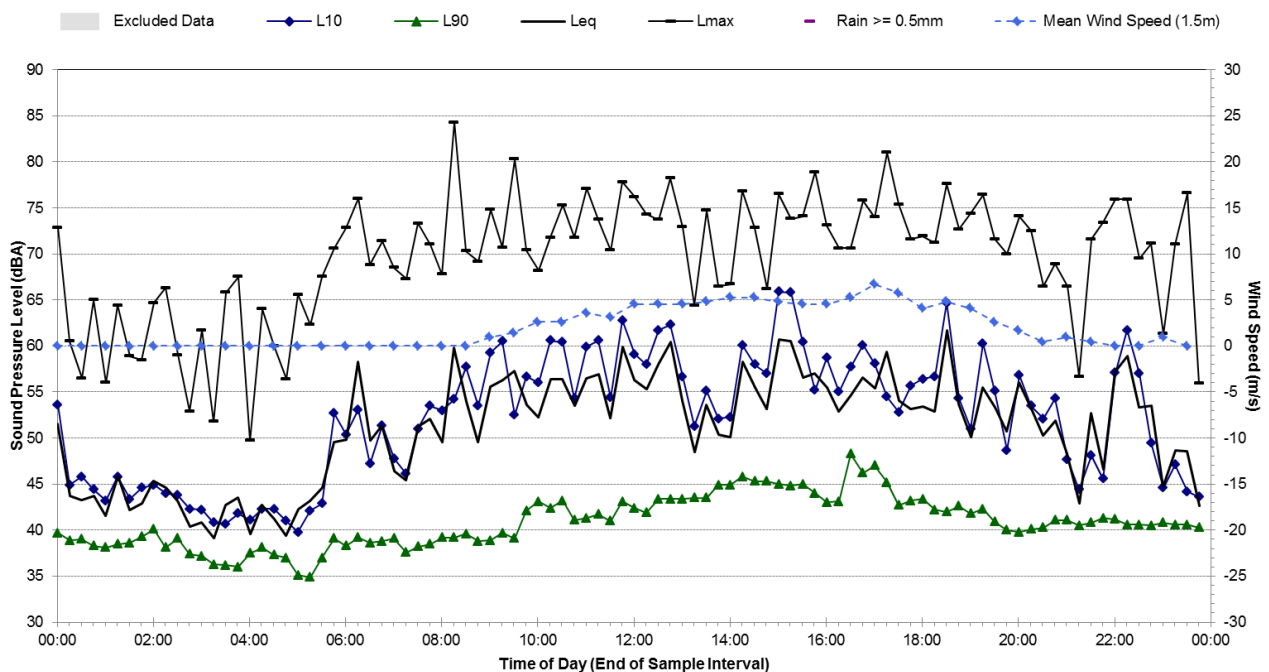
### Statistical Ambient Noise Levels

ADD06 - Saturday, 24 October 2015

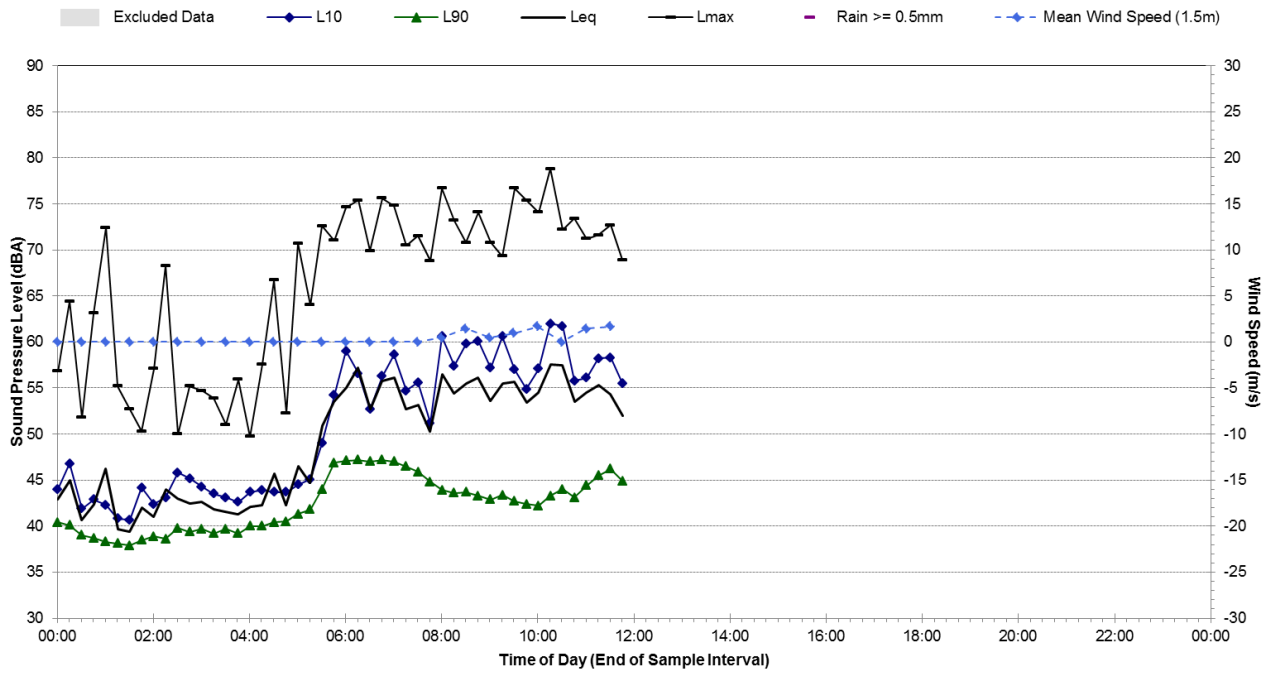


### Statistical Ambient Noise Levels

ADD06 - Sunday, 25 October 2015



## Statistical Ambient Noise Levels ADD06 - Monday, 26 October 2015

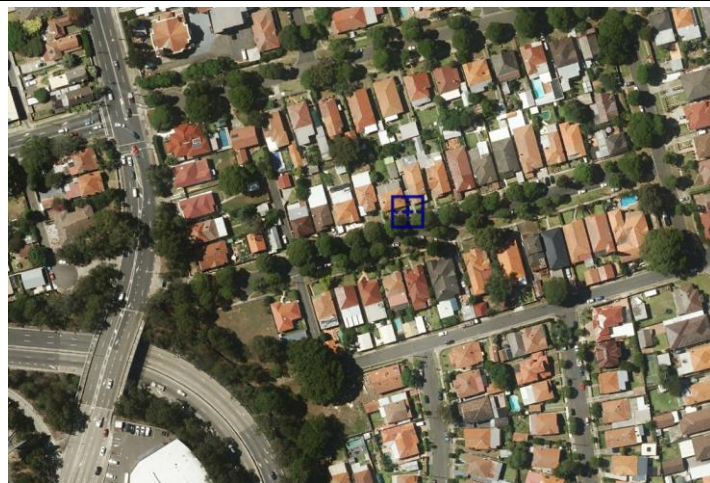


# Appendix ADD07

M4 East Additional Noise Logging Summary 2015

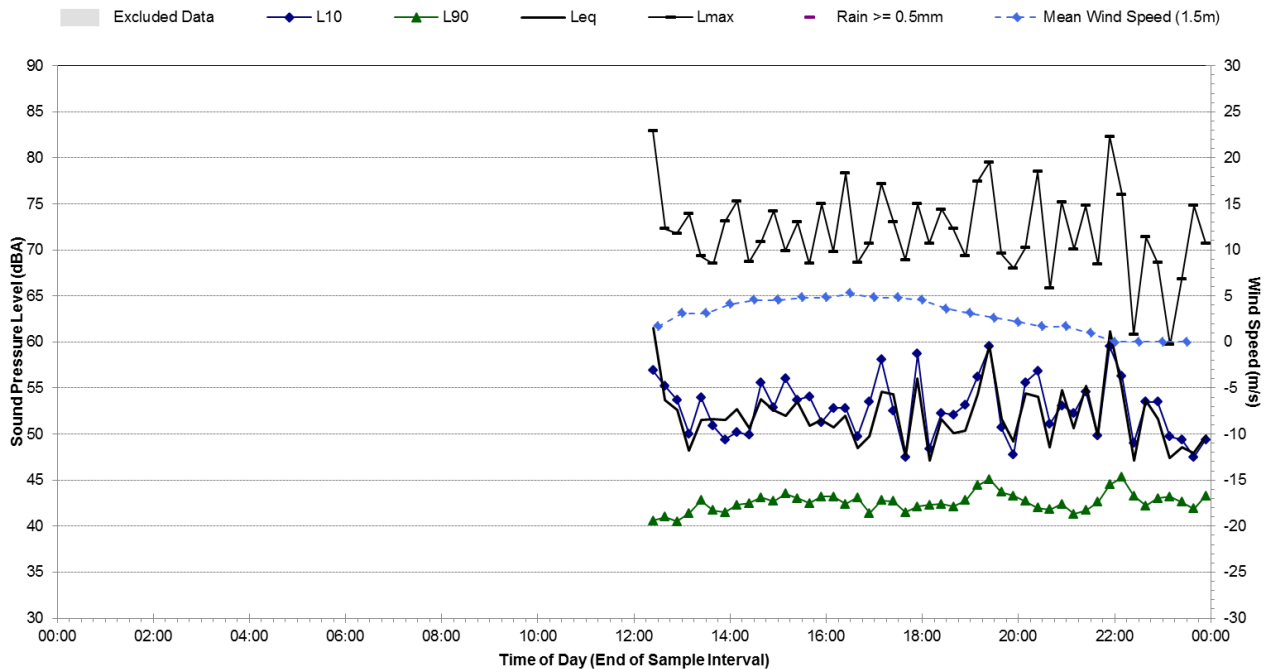
Page 1 of 7

## ADD07 Ambient Noise Monitoring Results

|                                                                                                                                                                                                             |                      |                                                                                     |                     |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|
| Noise Monitoring Location: ADD07                                                                                                                                                                            |                      | Map of Noise Monitoring Location                                                    |                     |                                                                                      |
| Noise Monitoring Address: 15 Edward St, Concord                                                                                                                                                             |                      |  |                     |                                                                                      |
| Logger Device Type: Svantek 957                                                                                                                                                                             |                      |                                                                                     |                     |                                                                                      |
| Logger Serial No: 27578                                                                                                                                                                                     |                      |                                                                                     |                     |                                                                                      |
| Ambient noise logger deployed immediately outside residential address 15 Edward St, Concord. Logger located in front yard on southern side of property.                                                     |                      |                                                                                     |                     |                                                                                      |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by distant road traffic noise from Concord Road during the daytime. Local traffic passbys were occasional. |                      |                                                                                     |                     |                                                                                      |
| Recorded Noise Levels (LMax):                                                                                                                                                                               |                      |                                                                                     |                     |                                                                                      |
| Distant road traffic Concord Rd: 46-50 dBA, Local road traffic: 55-69 dBA, Air traffic: 65-73 dBA, Birds: 50-61 dBA                                                                                         |                      |                                                                                     |                     |                                                                                      |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                    |                      |                                                                                     |                     |                                                                                      |
| Monitoring Period                                                                                                                                                                                           | Noise Level (dBA)    |                                                                                     |                     |                                                                                      |
|                                                                                                                                                                                                             | RBL                  | LAeq                                                                                | L10                 | L1                                                                                   |
| Daytime                                                                                                                                                                                                     | 42                   | 54                                                                                  | 55                  | 64                                                                                   |
| Evening                                                                                                                                                                                                     | 42                   | 54                                                                                  | 52                  | 64                                                                                   |
| Night-time                                                                                                                                                                                                  | 39                   | 50                                                                                  | 48                  | 54                                                                                   |
| 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                                                                                                                                                                                        | 5                    | 4                                                                                   | N/A (7 Day Average) |                                                                                      |
| Daytime (7am-10pm)                                                                                                                                                                                          | 55                   | 54                                                                                  | 54                  |                                                                                      |
| Night-time (10pm-7am)                                                                                                                                                                                       | 50                   | 49                                                                                  | 50                  |                                                                                      |
| Attended Noise Measurement Results                                                                                                                                                                          |                      |                                                                                     |                     |                                                                                      |
| Date                                                                                                                                                                                                        | Start Time           | Measured Noise Level (dBA)                                                          |                     |                                                                                      |
|                                                                                                                                                                                                             |                      | LA90                                                                                | LAeq                | LMax                                                                                 |
| 16/10/2015                                                                                                                                                                                                  | 11:36                | 43                                                                                  | 56                  | 73                                                                                   |

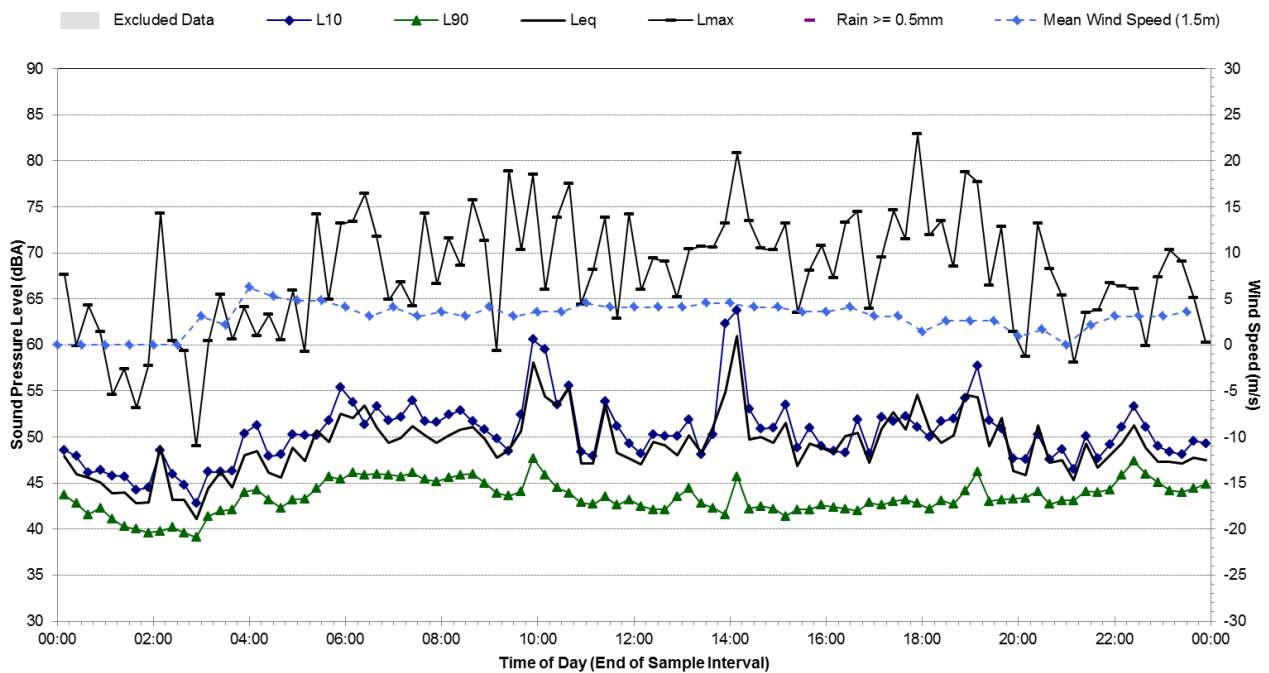
## Statistical Ambient Noise Levels

ADD07 - Friday, 16 October 2015



## Statistical Ambient Noise Levels

ADD07 - Saturday, 17 October 2015





## Appendix ADD07

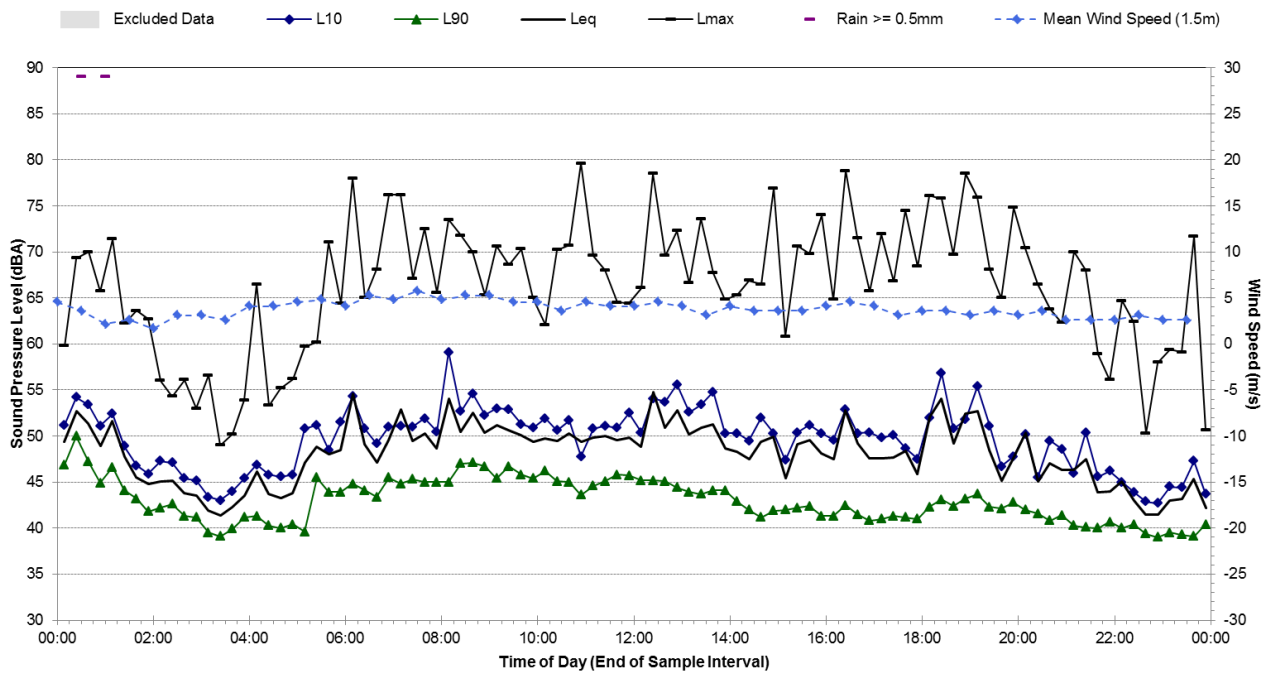
M4 East Additional Noise Logging Summary 2015

Page 3 of 7

### ADD07 Ambient Noise Monitoring Results

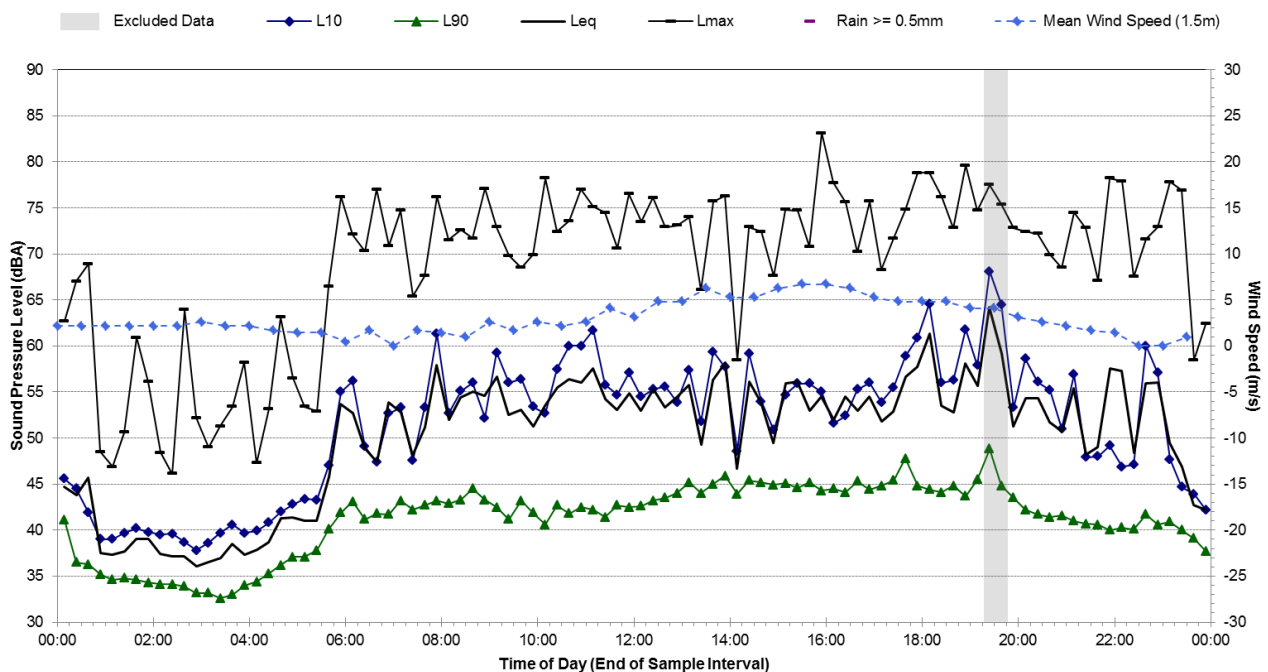
#### Statistical Ambient Noise Levels

ADD07 - Sunday, 18 October 2015



#### Statistical Ambient Noise Levels

ADD07 - Monday, 19 October 2015



## Appendix ADD07

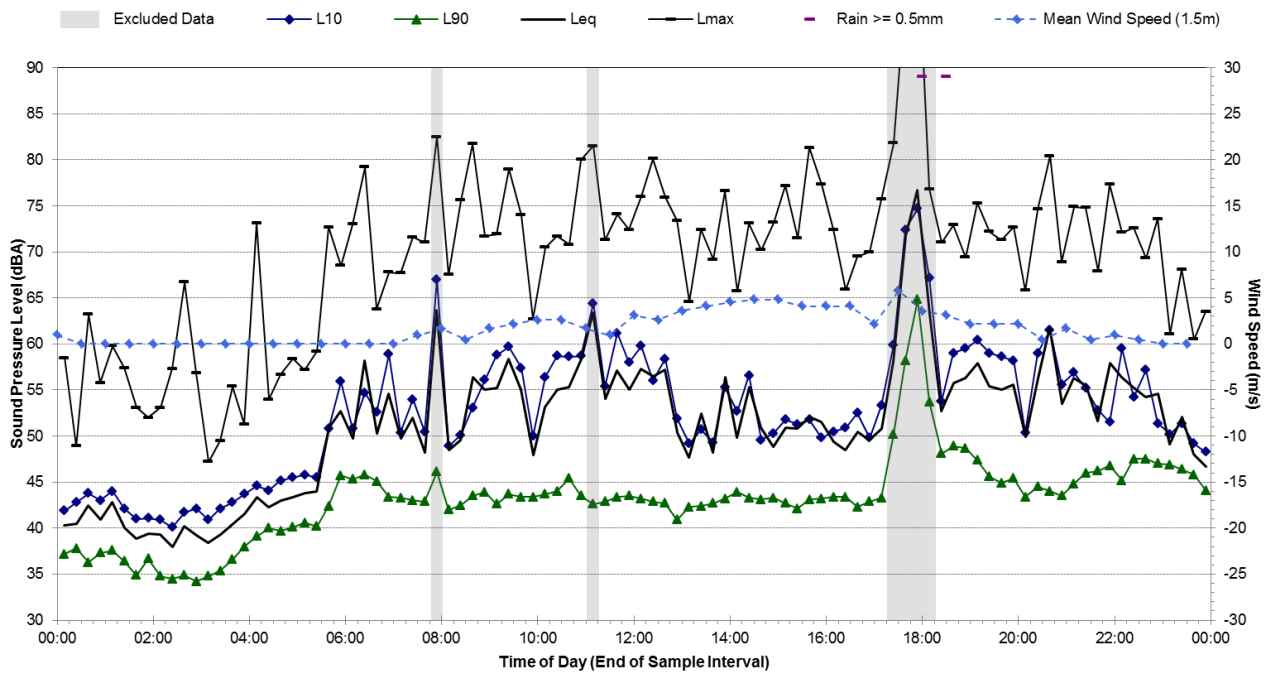
M4 East Additional Noise Logging Summary 2015

Page 4 of 7

### ADD07 Ambient Noise Monitoring Results

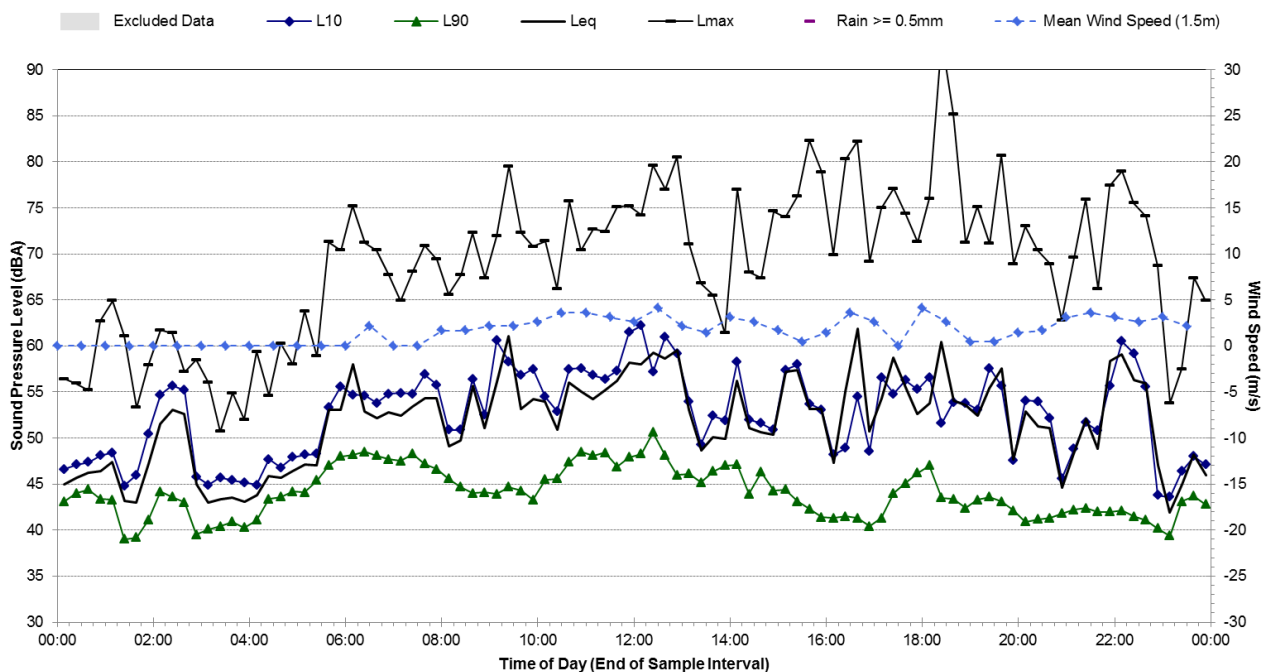
#### Statistical Ambient Noise Levels

ADD07 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD07 - Wednesday, 21 October 2015



## Appendix ADD07

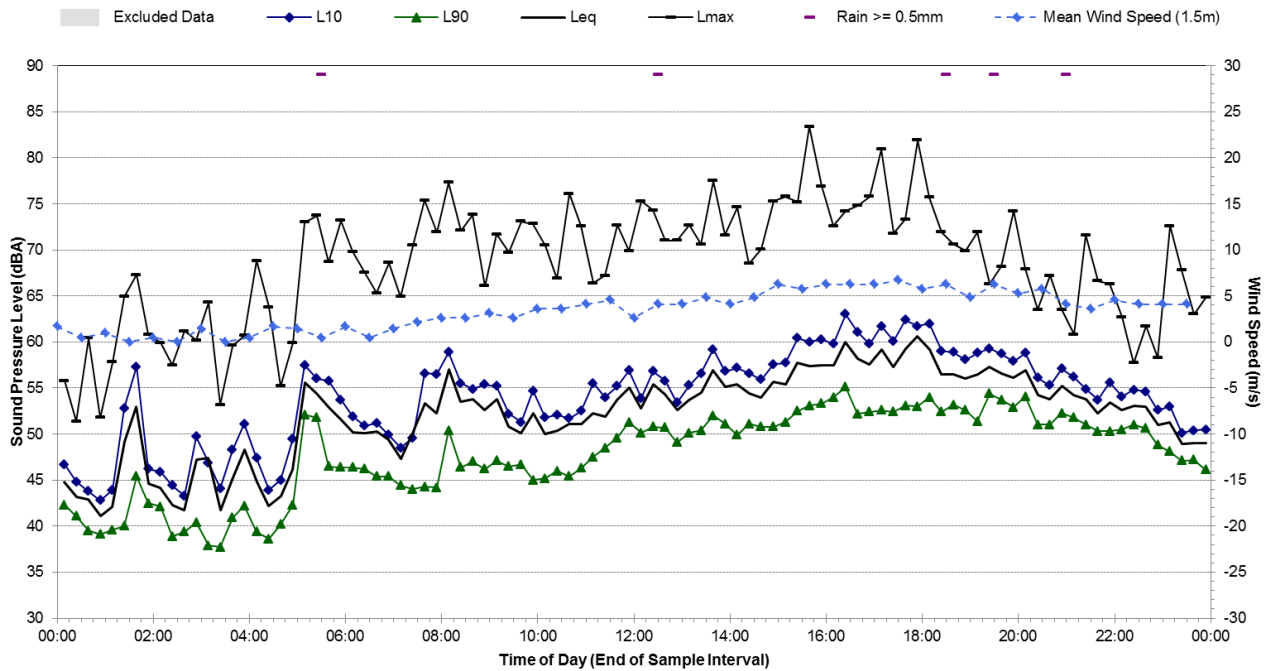
M4 East Additional Noise Logging Summary 2015

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### ADD07 Ambient Noise Monitoring Results

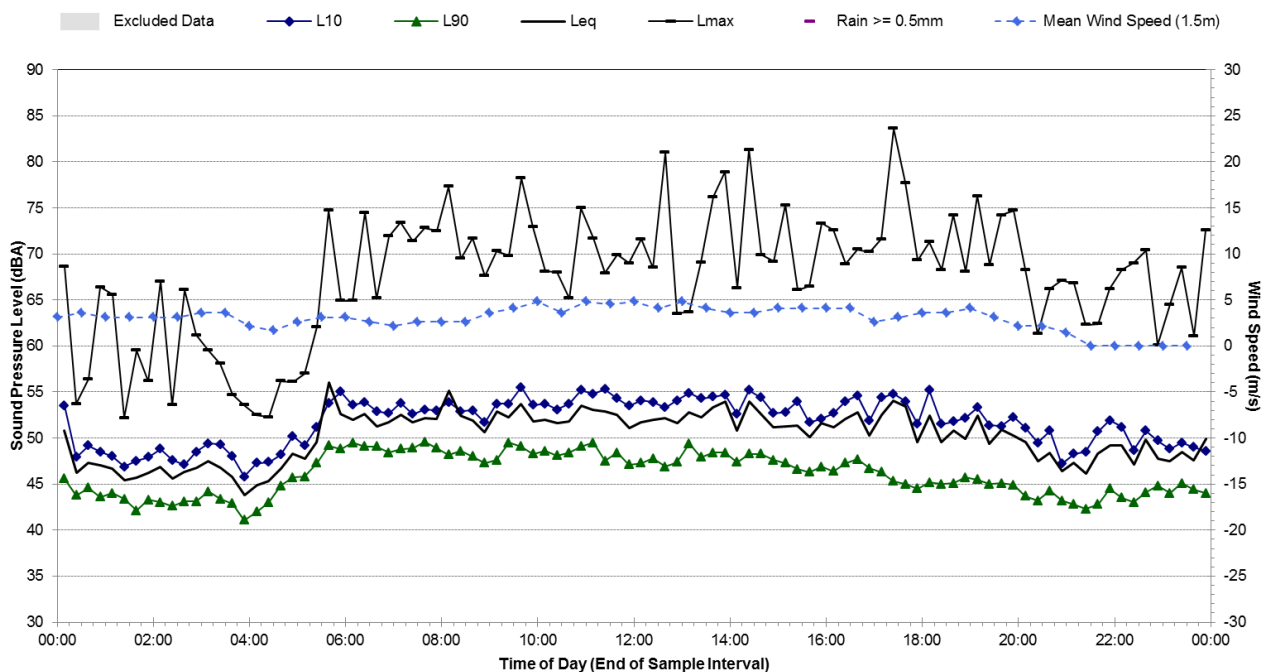
#### Statistical Ambient Noise Levels

ADD07 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD07 - Friday, 23 October 2015



## Appendix ADD07

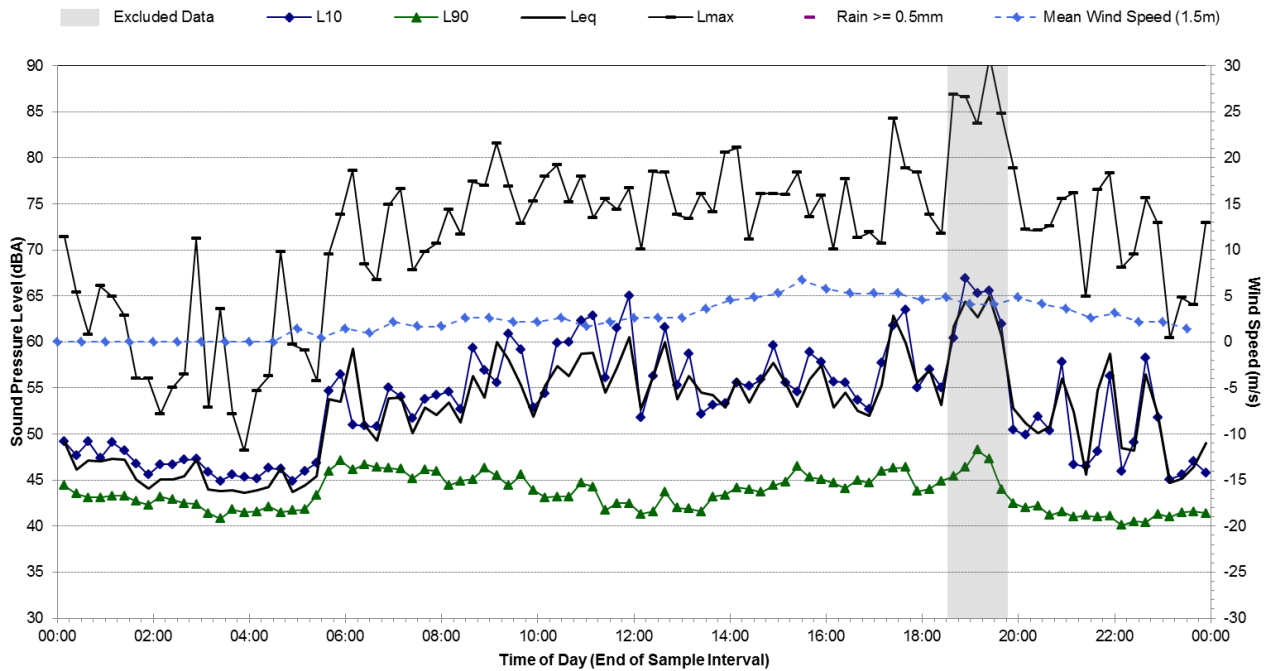
M4 East Additional Noise Logging Summary 2015

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### ADD07 Ambient Noise Monitoring Results

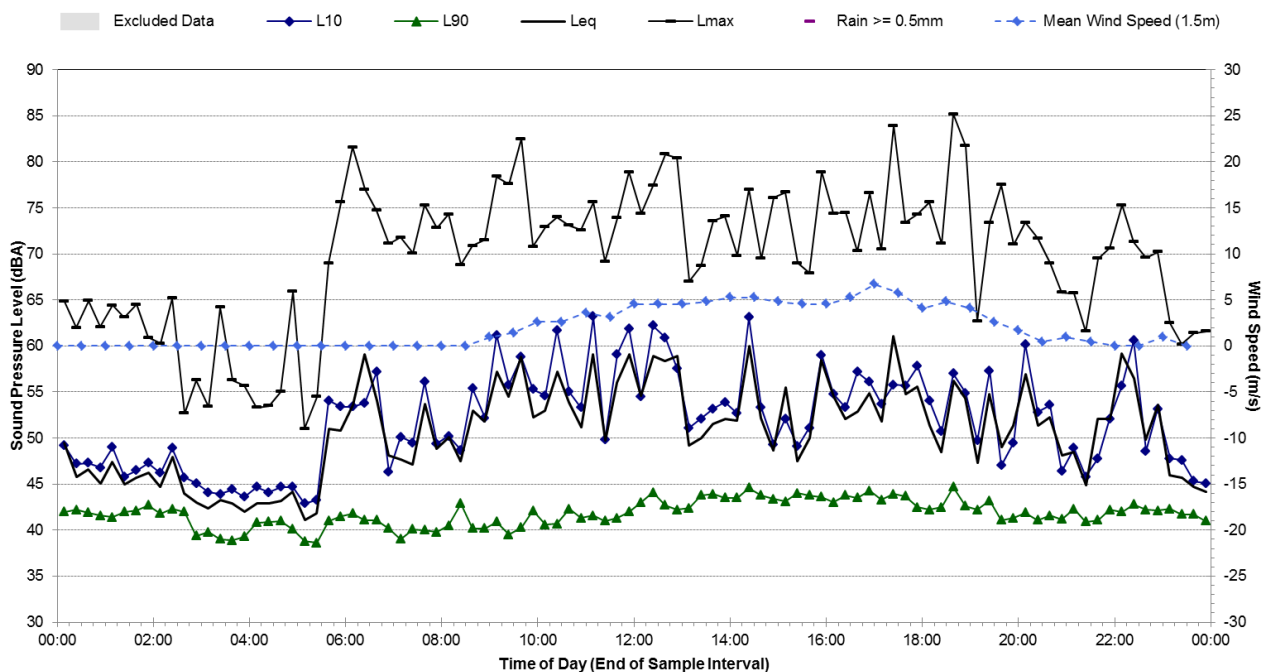
#### Statistical Ambient Noise Levels

ADD07 - Saturday, 24 October 2015



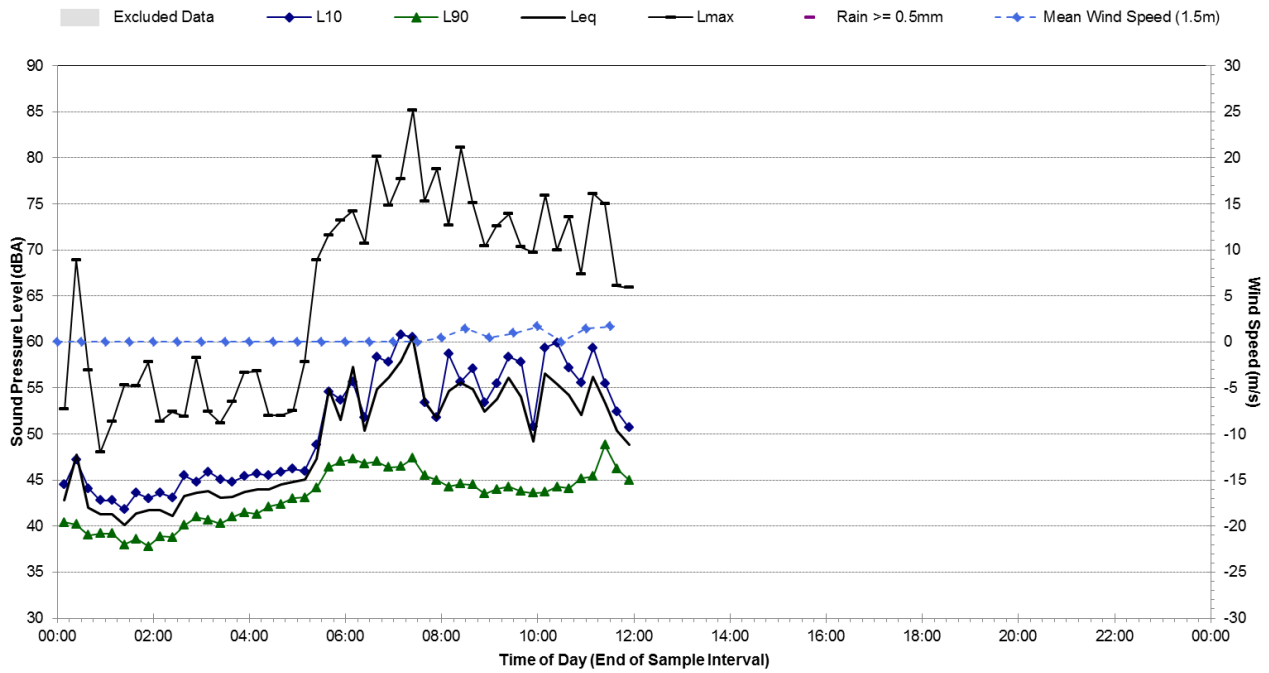
#### Statistical Ambient Noise Levels

ADD07 - Sunday, 25 October 2015



## Statistical Ambient Noise Levels

ADD07 - Monday, 26 October 2015





# Appendix ADD08

M4 East Additional Noise Logging Summary 2015

Page 1 of 7

## ADD08 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                                                                                     |                                    |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|------------------------------------|----------------|
| Noise Monitoring Location: ADD08                                                                                                                                                                                                                                                                                                                                                                                           |                                   | Map of Noise Monitoring Location                                                    |                                    |                |
| Noise Monitoring Address: 12 Luke Ave, Burwood                                                                                                                                                                                                                                                                                                                                                                             |                                   |  |                                    |                |
| Logger Device Type: Svantek 957<br>Logger Serial No: 23247                                                                                                                                                                                                                                                                                                                                                                 |                                   |                                                                                     |                                    |                |
| Ambient noise logger deployed immediately outside residential address 12 Luke Ave, Burwood. Logger located in front yard on western side of property.                                                                                                                                                                                                                                                                      |                                   |                                                                                     |                                    |                |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Parramatta Rd during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Parramatta Rd can be heard at this location with discrete traffic noise level peaks from heavy vehicle movements occurring frequently. Bus movements within the adjacent bus depot were frequent. |                                   |                                                                                     |                                    |                |
| Recorded Noise Levels (L <sub>Amax</sub> ):<br>Parramatta Rd Heavy-vehicle road traffic: 63-76 dBA, Parramatta Rd Light-vehicle road traffic: 55-61 dBA, Bus Depot: 71-73 dBA, Air traffic: 65 dBA                                                                                                                                                                                                                         |                                   |                                                                                     |                                    |                |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                                                     |                                    |                |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                                                                                          | Noise Level (dBA)                 |                                                                                     |                                    |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | RBL                               | L <sub>Aeq</sub>                                                                    | L <sub>10</sub>                    | L <sub>1</sub> |
| Daytime                                                                                                                                                                                                                                                                                                                                                                                                                    | 50                                | 59                                                                                  | 61                                 | 69             |
| Evening                                                                                                                                                                                                                                                                                                                                                                                                                    | 50                                | 59                                                                                  | 60                                 | 66             |
| Night-time                                                                                                                                                                                                                                                                                                                                                                                                                 | 43                                | 58                                                                                  | 60                                 | 65             |
| Ambient Noise Logging Results – RNP Defined Time Periods                                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                                                     |                                    |                |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                                                                                          | Noise Level (dBA)                 |                                                                                     |                                    |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | Weekday L <sub>Aeq</sub> (Period) | Weekend L <sub>Aeq</sub> (Period)                                                   | Weekly L <sub>Aeq</sub> (Period)   |                |
| Number of Valid Days                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                 | 4                                                                                   | N/A (7 Day Average)                |                |
| Daytime (7am-10pm)                                                                                                                                                                                                                                                                                                                                                                                                         | 59                                | 59                                                                                  | 59                                 |                |
| Night-time (10pm-7am)                                                                                                                                                                                                                                                                                                                                                                                                      | 58                                | 58                                                                                  | 58                                 |                |
| Attended Noise Measurement Results                                                                                                                                                                                                                                                                                                                                                                                         |                                   |                                                                                     |                                    |                |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                       | Start Time                        | Measured Noise Level (dBA)                                                          |                                    |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | L <sub>A90</sub>                                                                    | L <sub>Aeq</sub> L <sub>Amax</sub> |                |
| 16/10/2015                                                                                                                                                                                                                                                                                                                                                                                                                 | 14:00                             | 54                                                                                  | 61                                 | 76             |

|                                                                                      |  |
|--------------------------------------------------------------------------------------|--|
| Photo of Noise Monitoring Location                                                   |  |
|  |  |



# Appendix ADD08

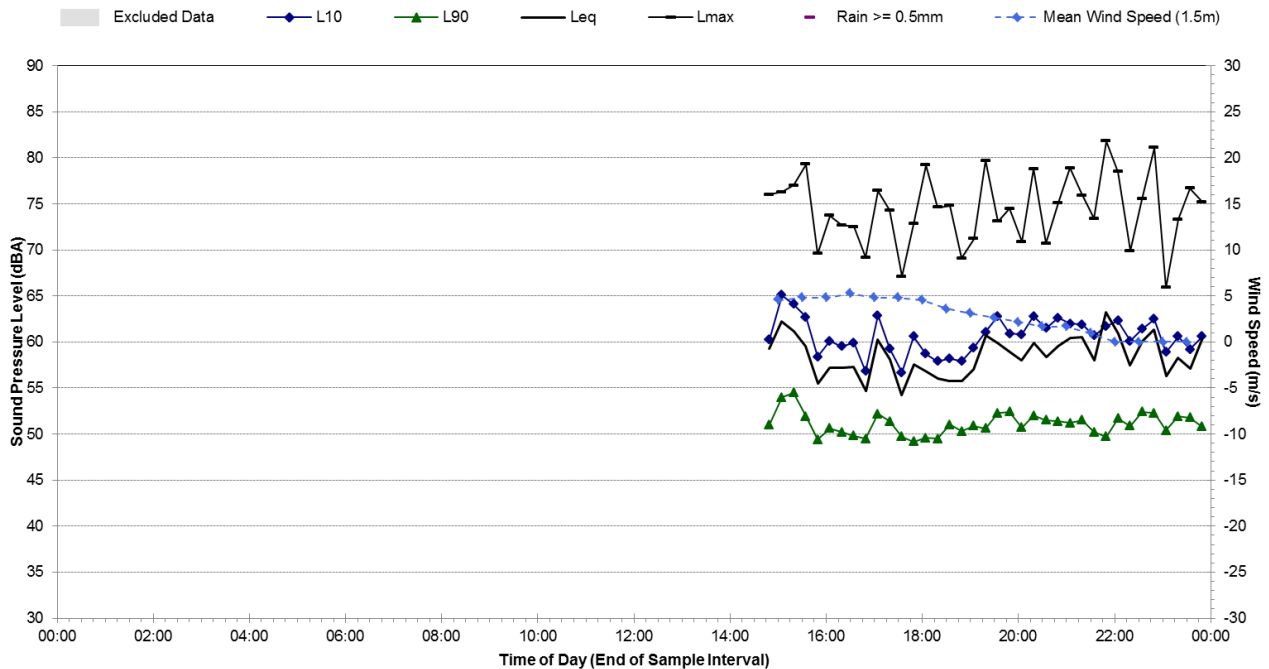
M4 East Additional Noise Logging Summary 2015

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## ADD08 Ambient Noise Monitoring Results

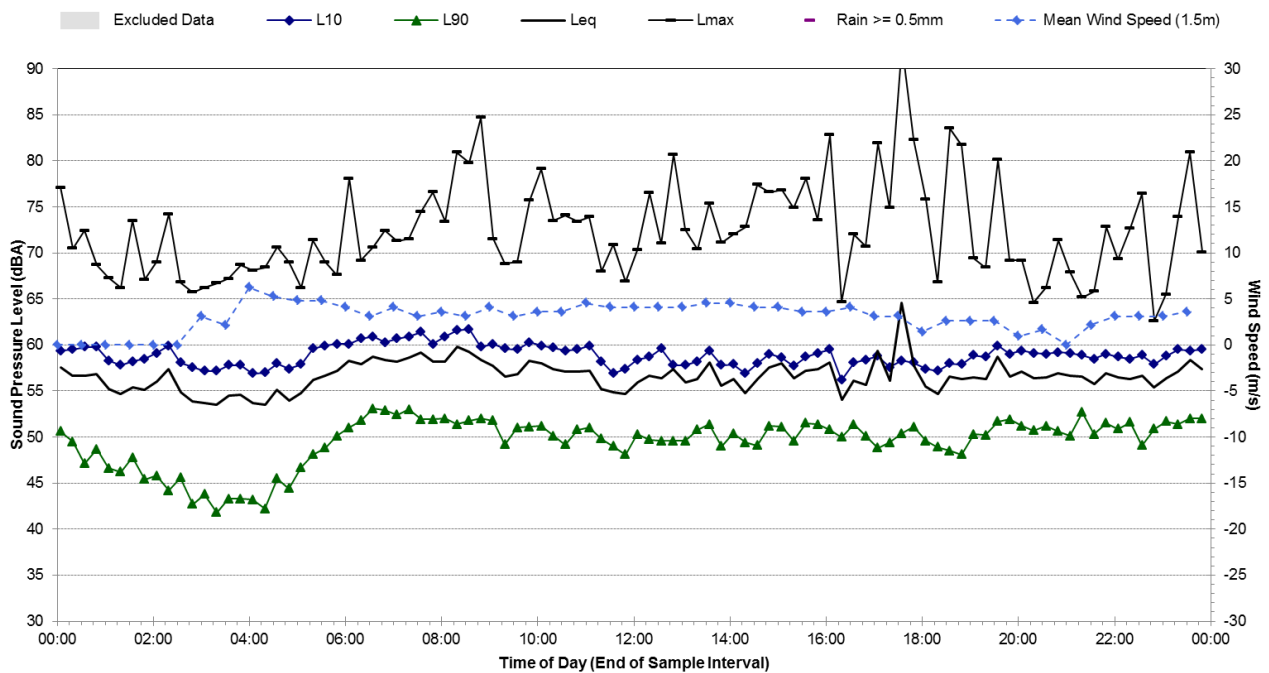
### Statistical Ambient Noise Levels

ADD08 - Friday, 16 October 2015



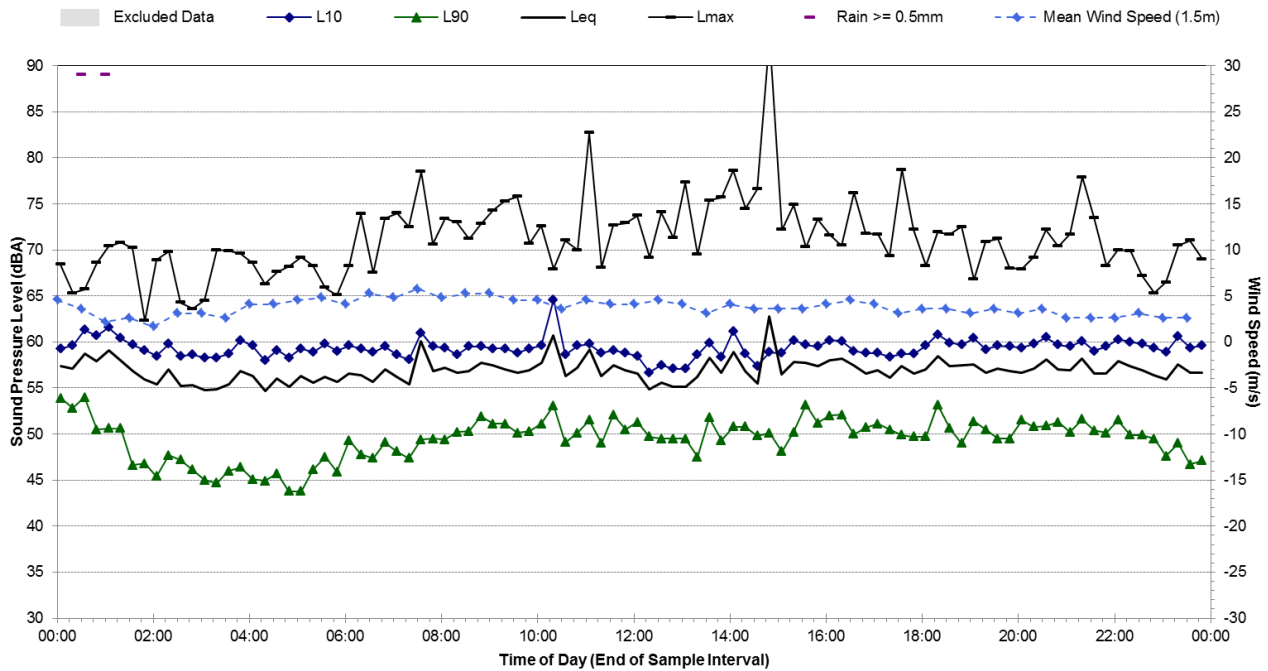
### Statistical Ambient Noise Levels

ADD08 - Saturday, 17 October 2015



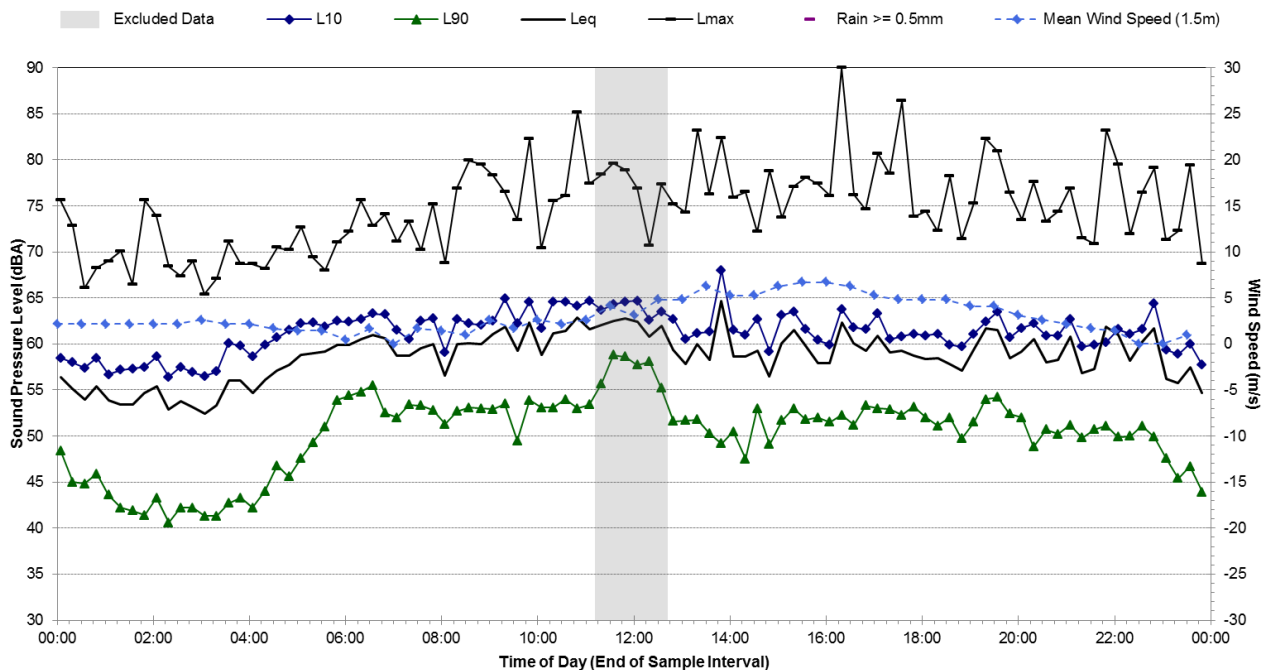
## Statistical Ambient Noise Levels

ADD08 - Sunday, 18 October 2015



## Statistical Ambient Noise Levels

ADD08 - Monday, 19 October 2015



## Appendix ADD08

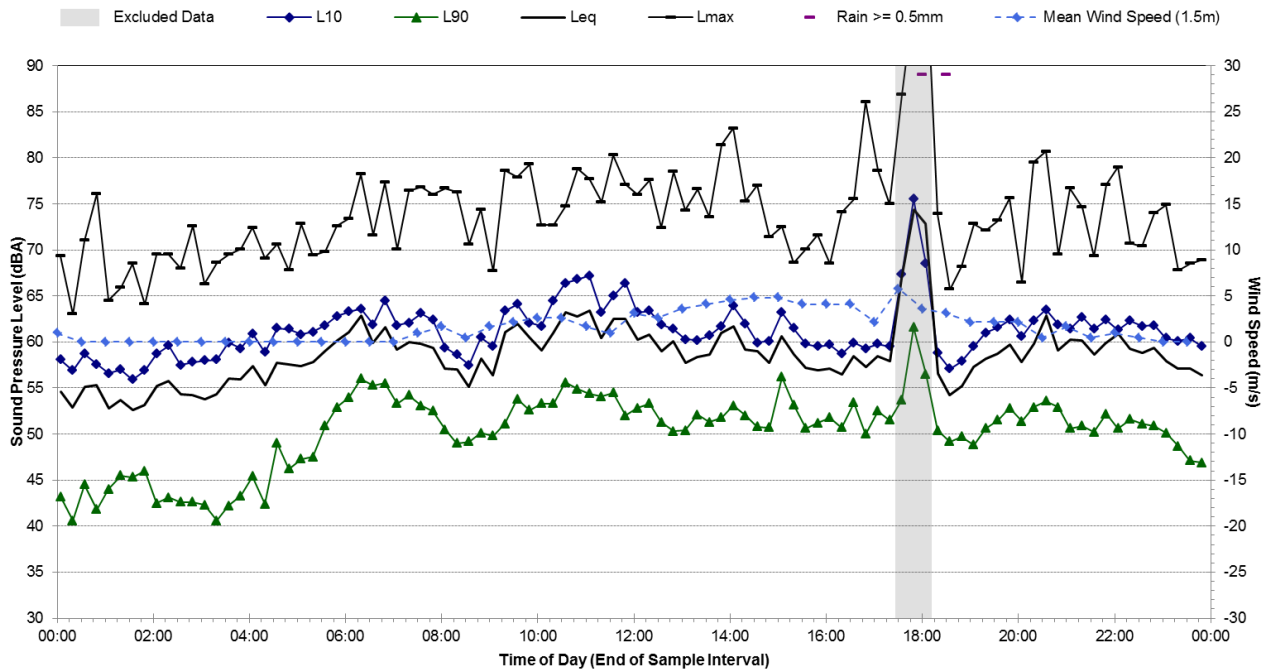
M4 East Additional Noise Logging Summary 2015

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### ADD08 Ambient Noise Monitoring Results

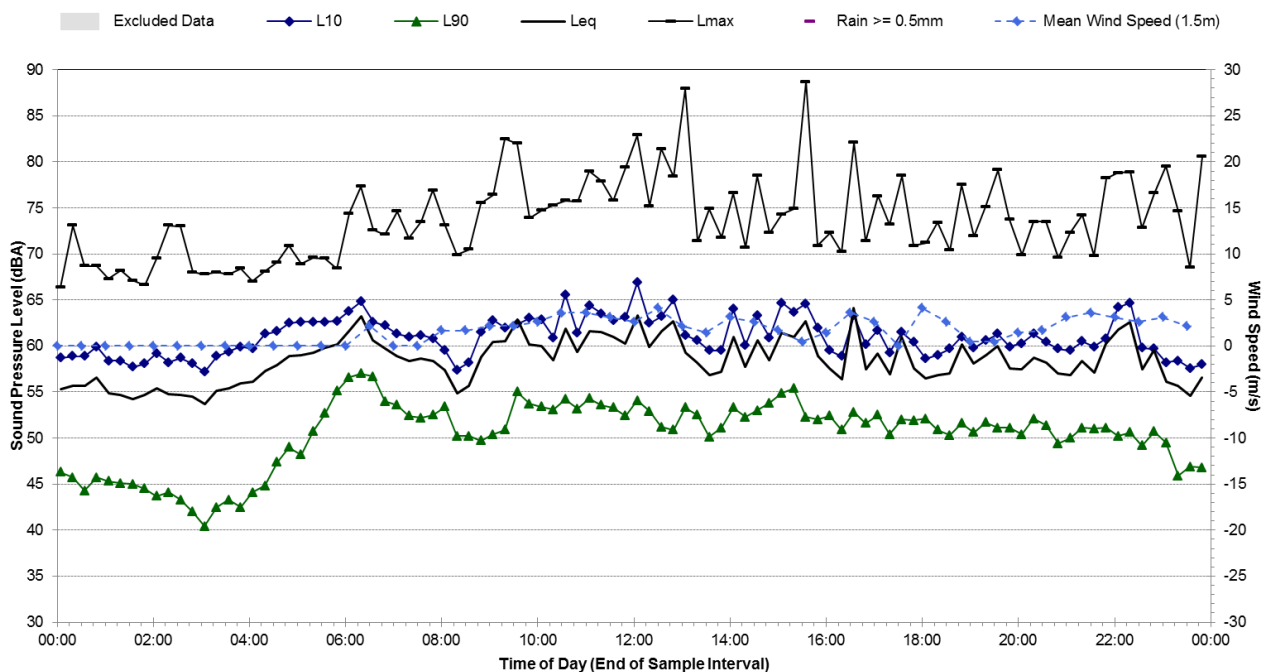
#### Statistical Ambient Noise Levels

ADD08 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD08 - Wednesday, 21 October 2015



# Appendix ADD08

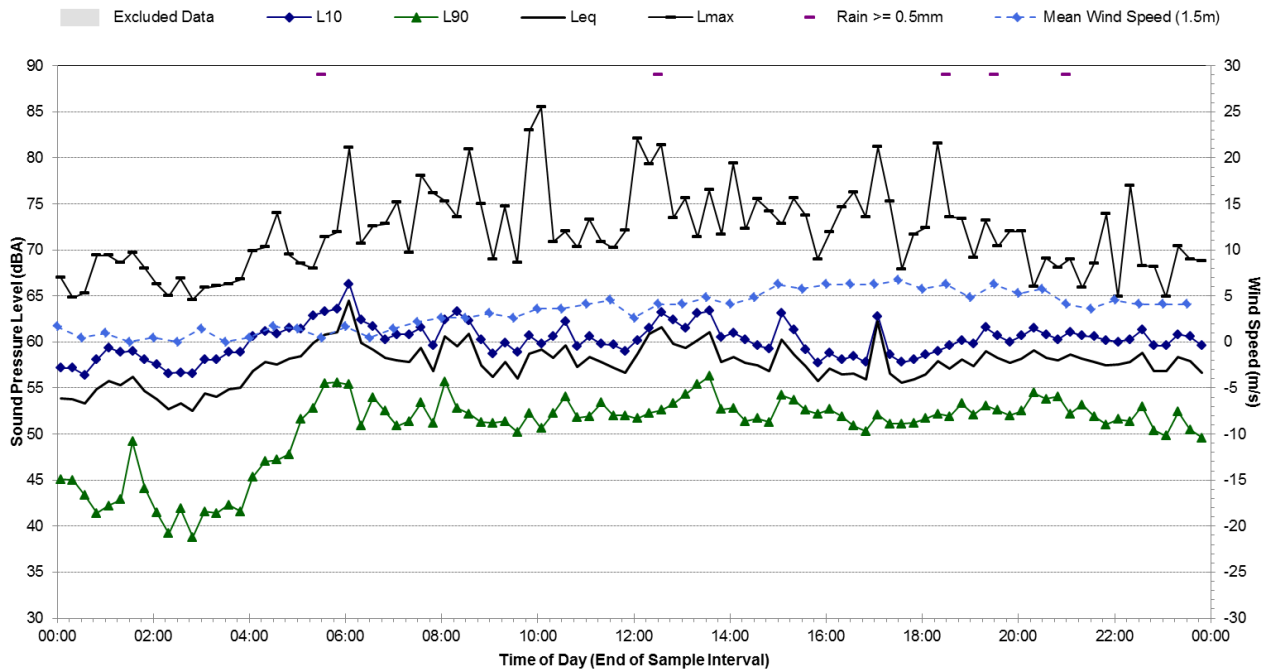
M4 East Additional Noise Logging Summary 2015

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## ADD08 Ambient Noise Monitoring Results

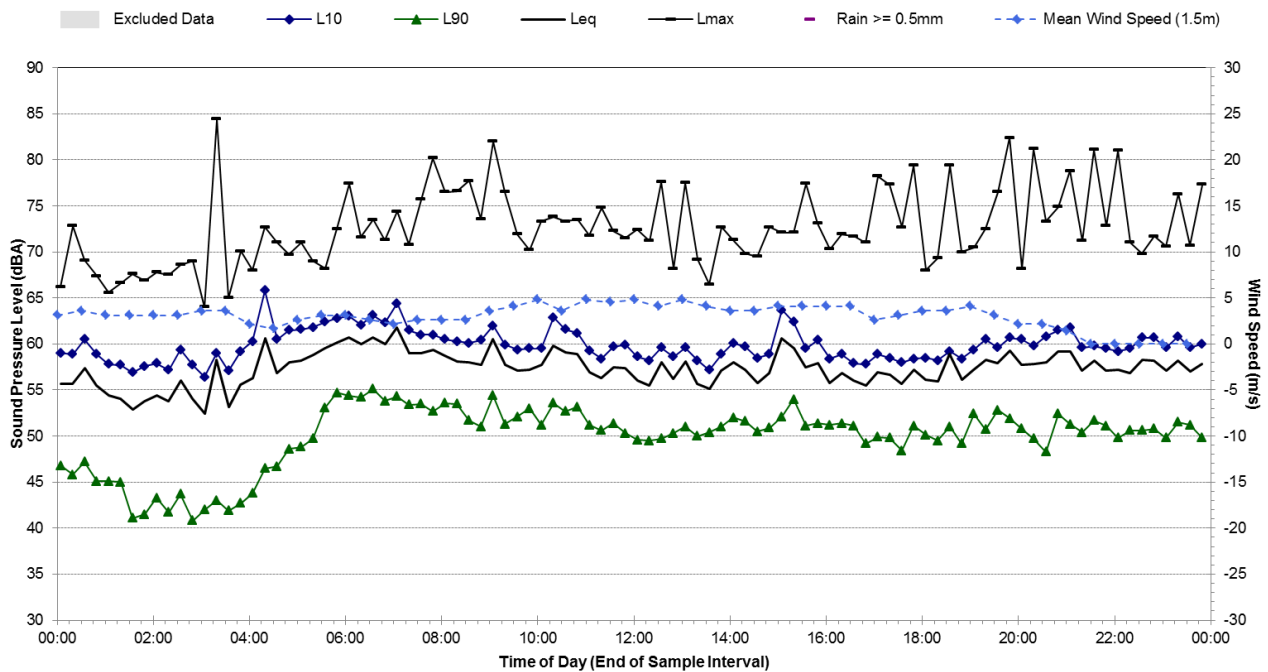
### Statistical Ambient Noise Levels

ADD08 - Thursday, 22 October 2015



### Statistical Ambient Noise Levels

ADD08 - Friday, 23 October 2015



# Appendix ADD08

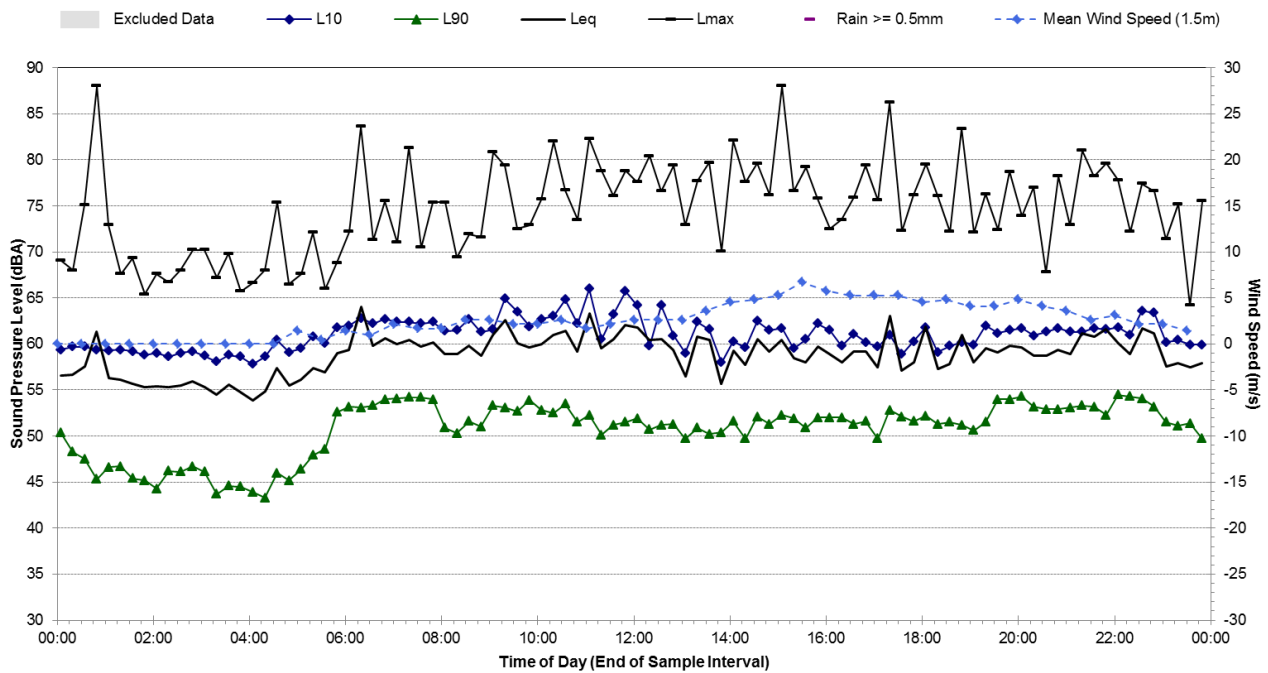
M4 East Additional Noise Logging Summary 2015

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## ADD08 Ambient Noise Monitoring Results

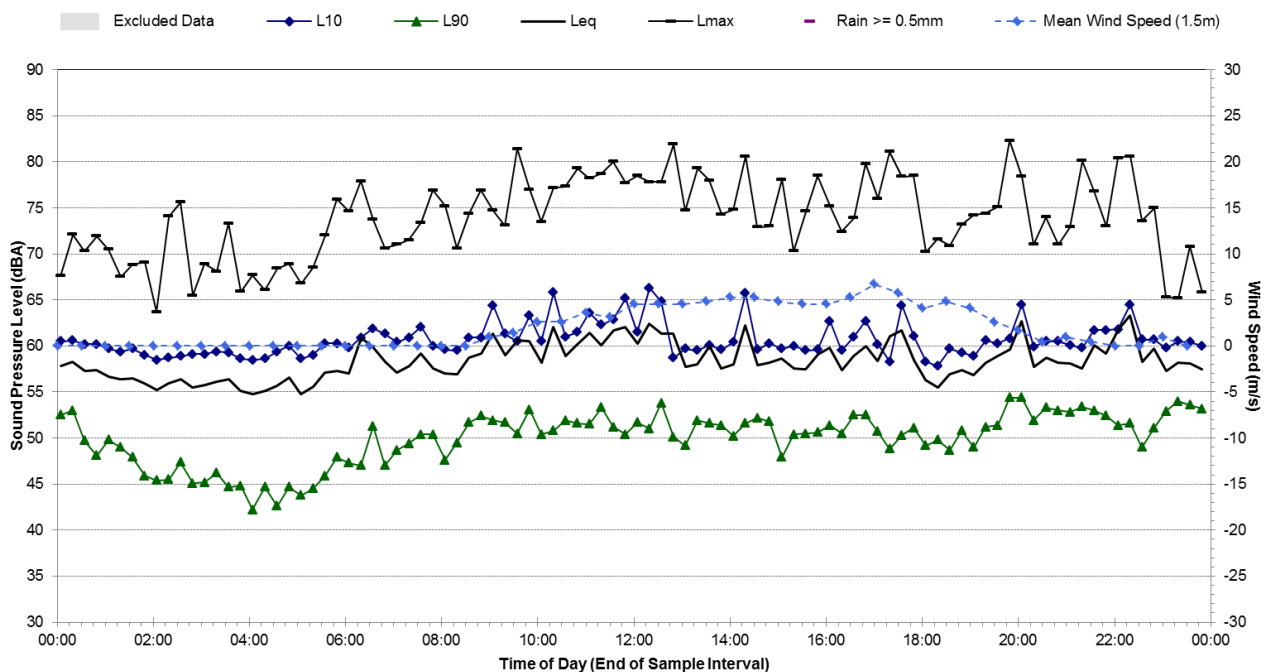
### Statistical Ambient Noise Levels

ADD08 - Saturday, 24 October 2015



### Statistical Ambient Noise Levels

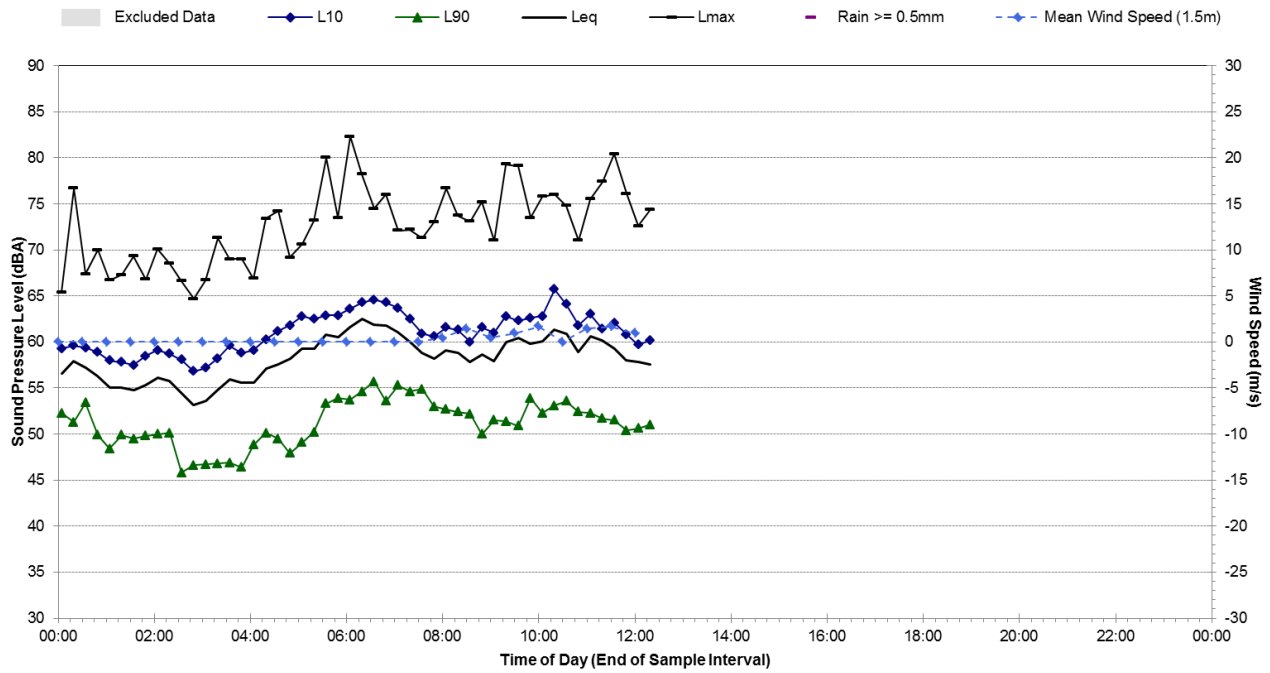
ADD08 - Sunday, 25 October 2015





## Statistical Ambient Noise Levels

ADD08 - Monday, 26 October 2015



## Appendix ADD09

M4 East Additional Noise Logging Summary 2015

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### ADD09 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                         |                                   |                                                                                      |                                  |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------|----------------------------------|-------------------|
| Noise Monitoring Location: ADD09                                                                                                                                                                                                                        |                                   | Map of Noise Monitoring Location                                                     |                                  |                   |
| Noise Monitoring Address: 6 Loftus St, Concord                                                                                                                                                                                                          |                                   |   |                                  |                   |
| Logger Device Type: Svantek 957<br>Logger Serial No: 27522                                                                                                                                                                                              |                                   |                                                                                      |                                  |                   |
| Ambient noise logger deployed immediately outside residential address 6 Loftus St, Concord. Logger located in front yard on eastern side of property.                                                                                                   |                                   |                                                                                      |                                  |                   |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Loftus St and Gipps St during the daytime. Road traffic noise from Parramatta Rd was audible during lulls in local traffic. |                                   |                                                                                      |                                  |                   |
| Recorded Noise Levels (L <sub>Amax</sub> ):<br>Gipps St Heavy-vehicle road traffic: 76-78 dBA, Gipps St Light-vehicle road traffic: 62 dBA, Local road traffic: 64-71 dBA, Air traffic: 74 dBA, Distant road traffic Parramatta Rd: 50 dBA              |                                   |                                                                                      |                                  |                   |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                |                                   |                                                                                      |                                  |                   |
| Monitoring Period                                                                                                                                                                                                                                       | Noise Level (dBA)                 |                                                                                      |                                  |                   |
|                                                                                                                                                                                                                                                         | RBL                               | L <sub>Aeq</sub>                                                                     | L <sub>10</sub>                  | L <sub>1</sub>    |
| Daytime                                                                                                                                                                                                                                                 | 49                                | 60                                                                                   | 63                               | 70                |
| Evening                                                                                                                                                                                                                                                 | 47                                | 59                                                                                   | 61                               | 69                |
| Night-time                                                                                                                                                                                                                                              | 41                                | 54                                                                                   | 53                               | 64                |
| Ambient Noise Logging Results – RNP Defined Time Periods                                                                                                                                                                                                |                                   |                                                                                      |                                  |                   |
| Monitoring Period                                                                                                                                                                                                                                       | Noise Level (dBA)                 |                                                                                      |                                  |                   |
|                                                                                                                                                                                                                                                         | Weekday L <sub>Aeq</sub> (Period) | Weekend L <sub>Aeq</sub> (Period)                                                    | Weekly L <sub>Aeq</sub> (Period) |                   |
| Number of Valid Days                                                                                                                                                                                                                                    | 5                                 | 4                                                                                    | N/A (7 Day Average)              |                   |
| Daytime (7am-10pm)                                                                                                                                                                                                                                      | 60                                | 59                                                                                   | 60                               |                   |
| Night-time (10pm-7am)                                                                                                                                                                                                                                   | 55                                | 54                                                                                   | 55                               |                   |
| Attended Noise Measurement Results                                                                                                                                                                                                                      |                                   |                                                                                      |                                  |                   |
| Date                                                                                                                                                                                                                                                    | Start Time                        | Measured Noise Level (dBA)                                                           |                                  |                   |
|                                                                                                                                                                                                                                                         |                                   | L <sub>A90</sub>                                                                     | L <sub>Aeq</sub>                 | L <sub>Amax</sub> |
| 16/10/2015                                                                                                                                                                                                                                              | 14:56                             | 53                                                                                   | 62                               | 78                |
|                                                                                                                                                                                                                                                         |                                   | Photo of Noise Monitoring Location                                                   |                                  |                   |
|                                                                                                                                                                                                                                                         |                                   |  |                                  |                   |

## Appendix ADD09

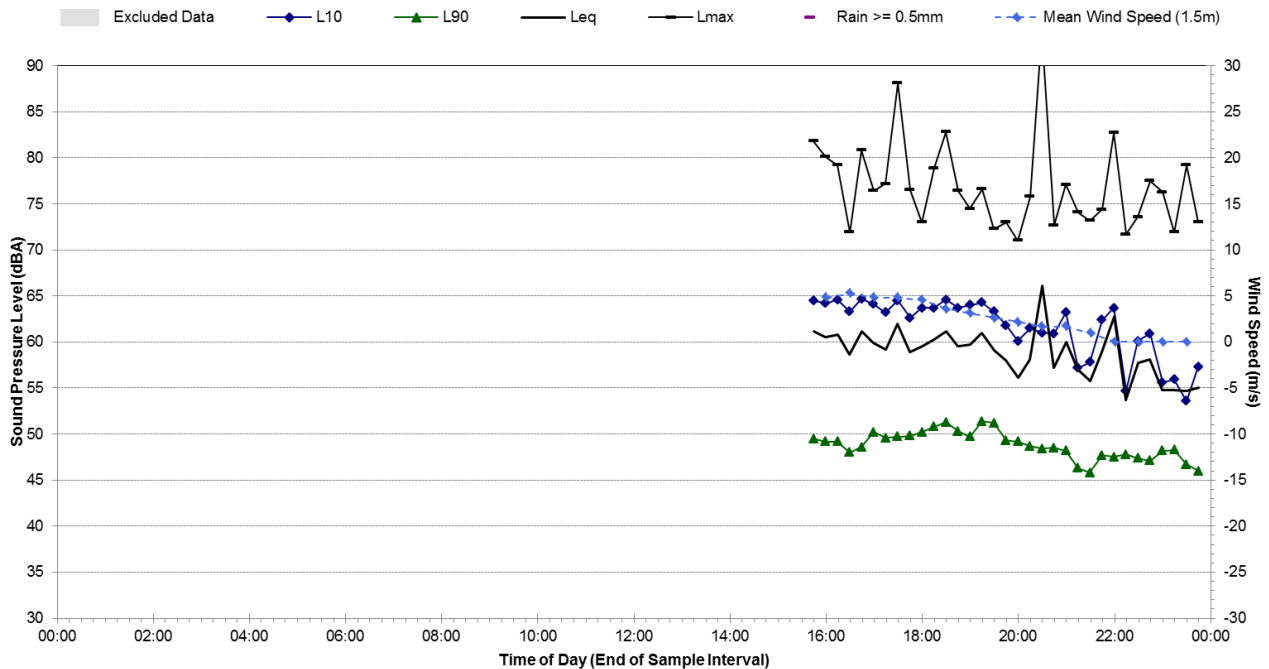
M4 East Additional Noise Logging Summary 2015

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### ADD09 Ambient Noise Monitoring Results

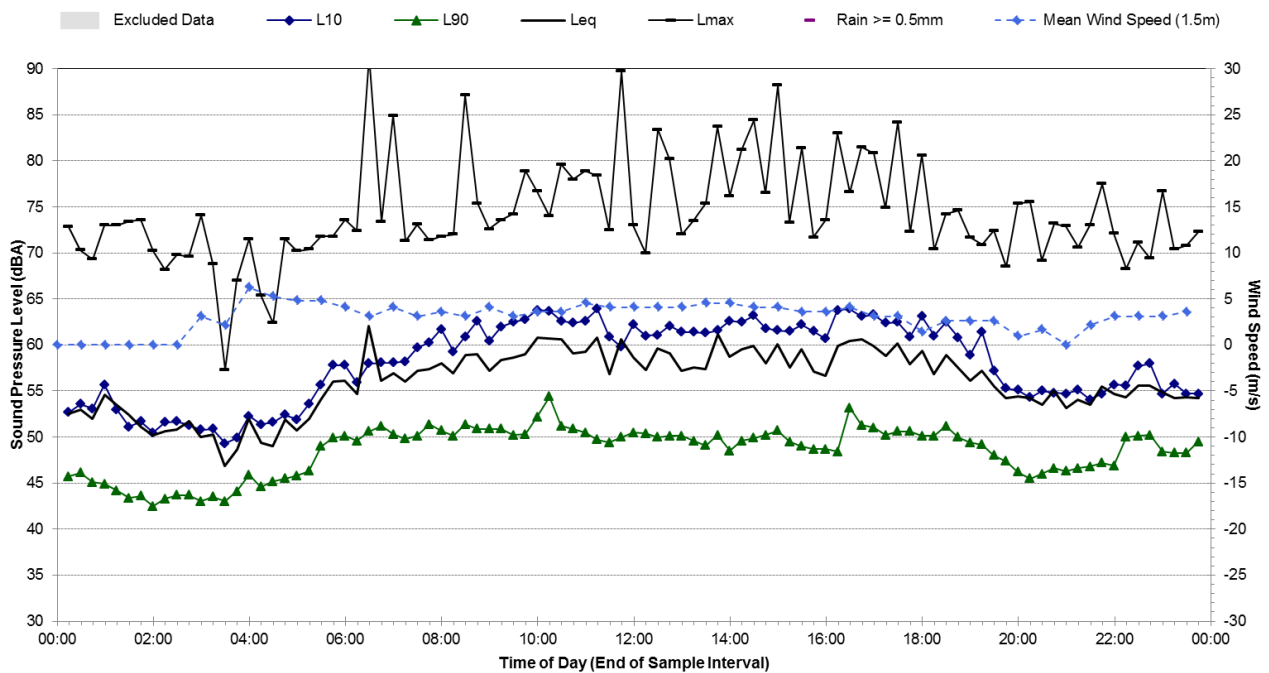
#### Statistical Ambient Noise Levels

ADD09 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD09 - Saturday, 17 October 2015



# Appendix ADD09

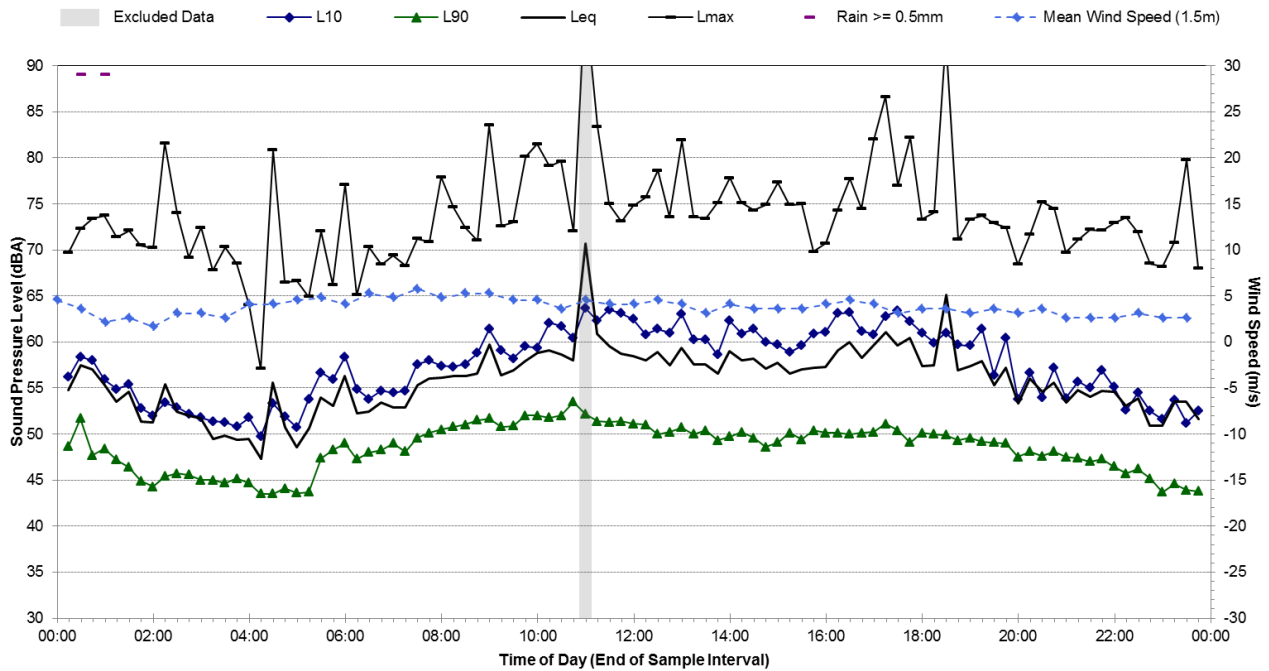
M4 East Additional Noise Logging Summary 2015

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## ADD09 Ambient Noise Monitoring Results

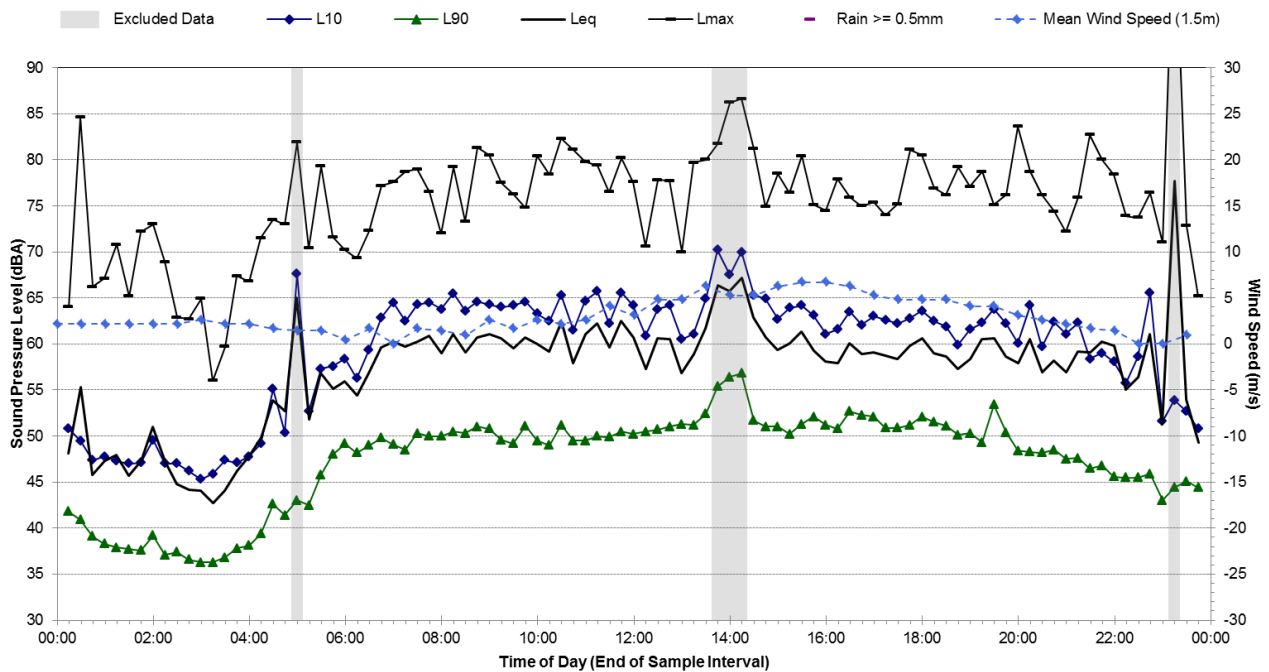
### Statistical Ambient Noise Levels

ADD09 - Sunday, 18 October 2015



### Statistical Ambient Noise Levels

ADD09 - Monday, 19 October 2015



## Appendix ADD09

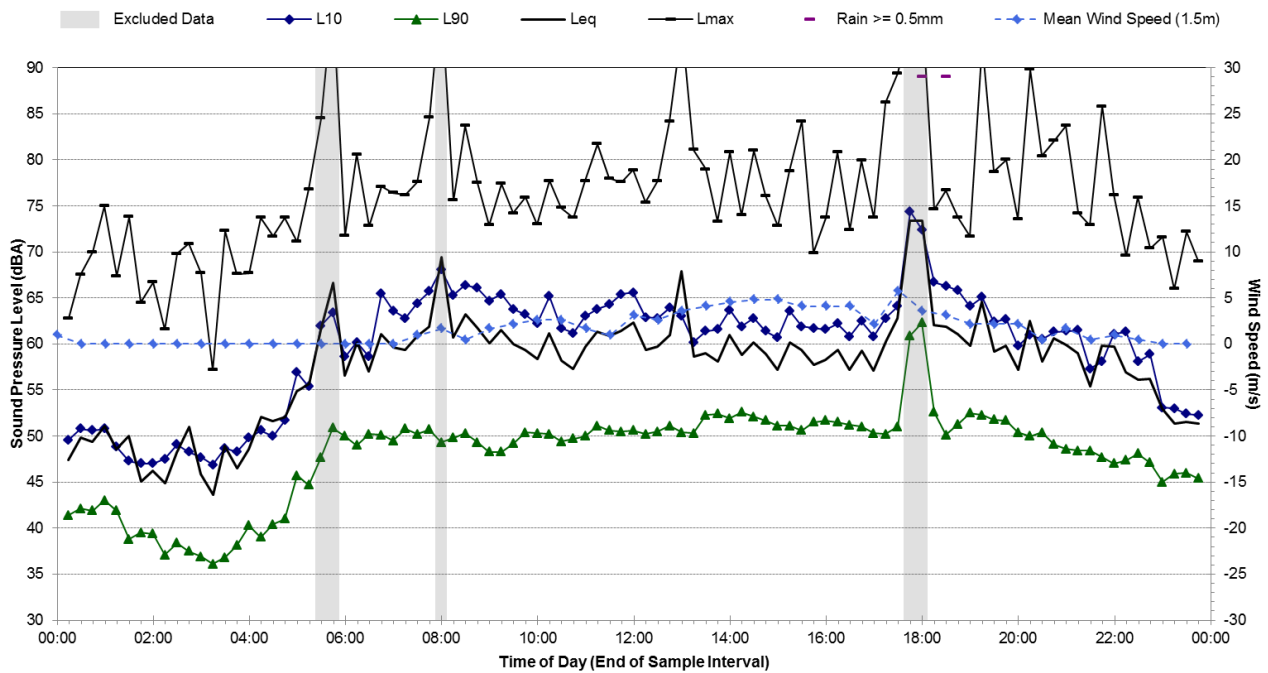
M4 East Additional Noise Logging Summary 2015

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### ADD09 Ambient Noise Monitoring Results

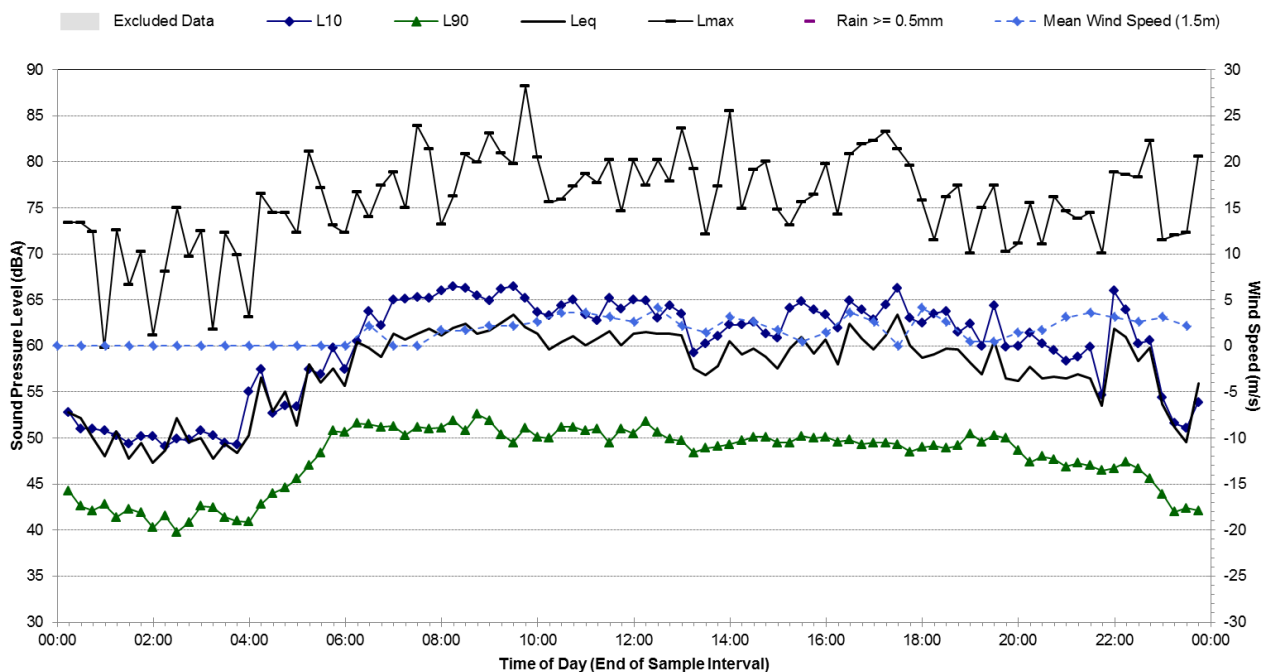
#### Statistical Ambient Noise Levels

ADD09 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD09 - Wednesday, 21 October 2015



## Appendix ADD09

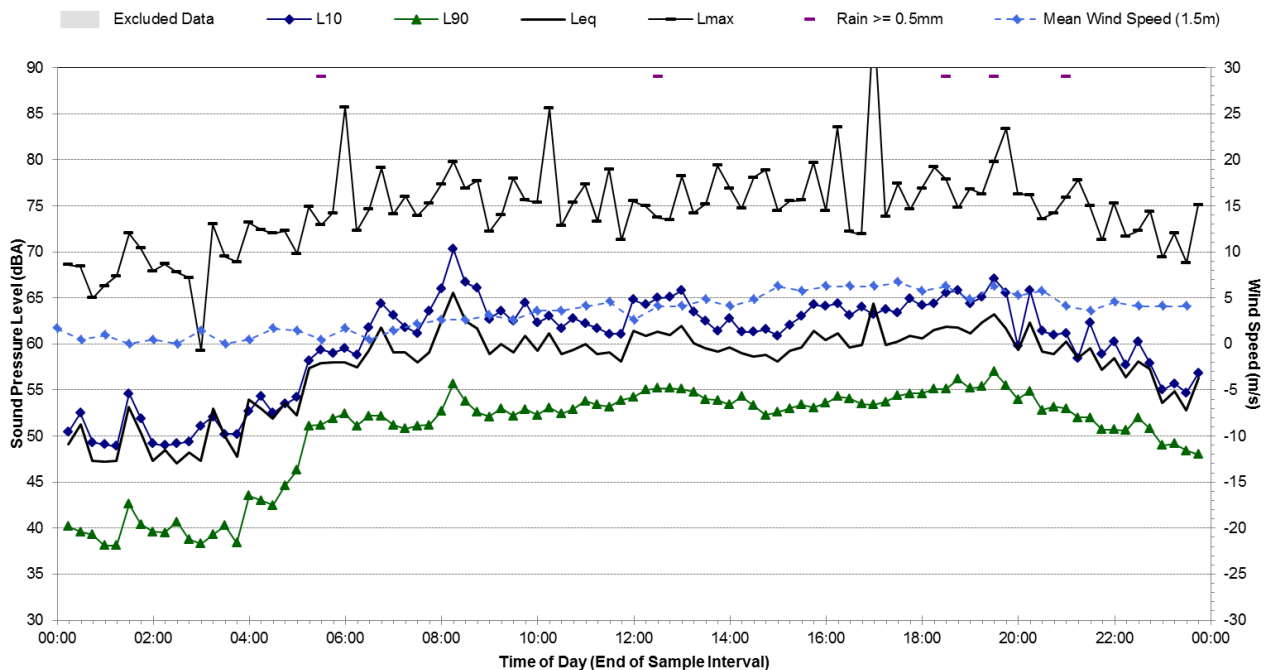
M4 East Additional Noise Logging Summary 2015

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### ADD09 Ambient Noise Monitoring Results

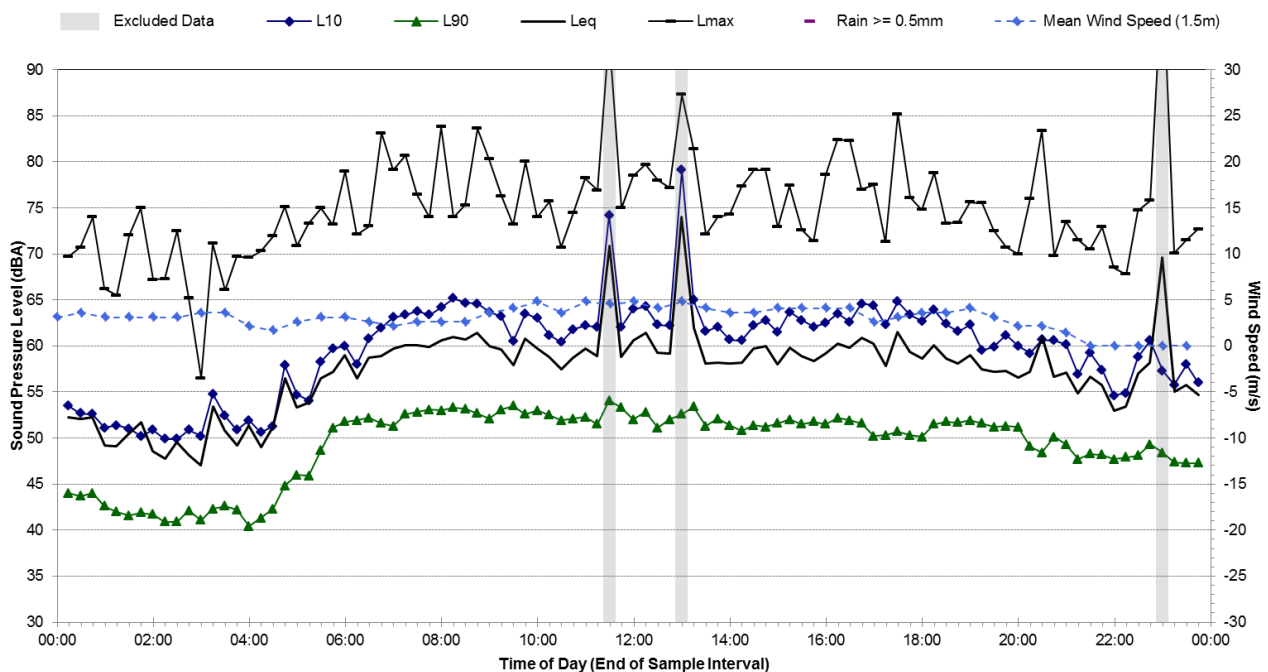
#### Statistical Ambient Noise Levels

ADD09 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD09 - Friday, 23 October 2015





## Appendix ADD09

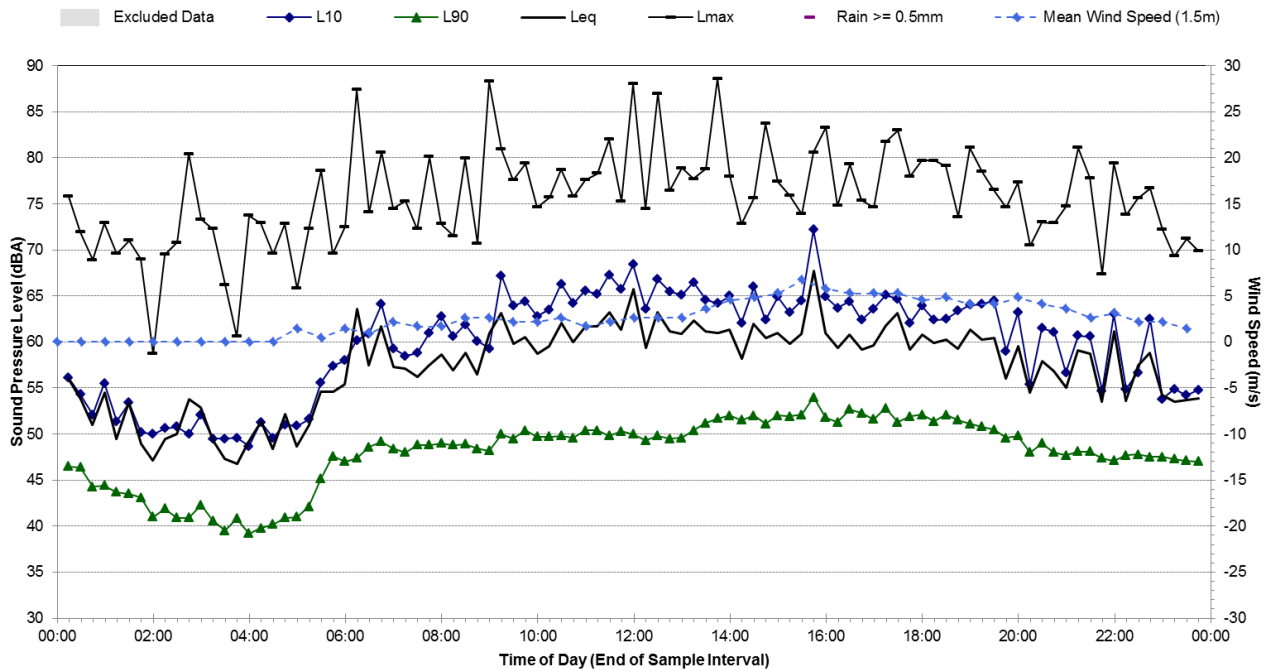
M4 East Additional Noise Logging Summary 2015

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### ADD09 Ambient Noise Monitoring Results

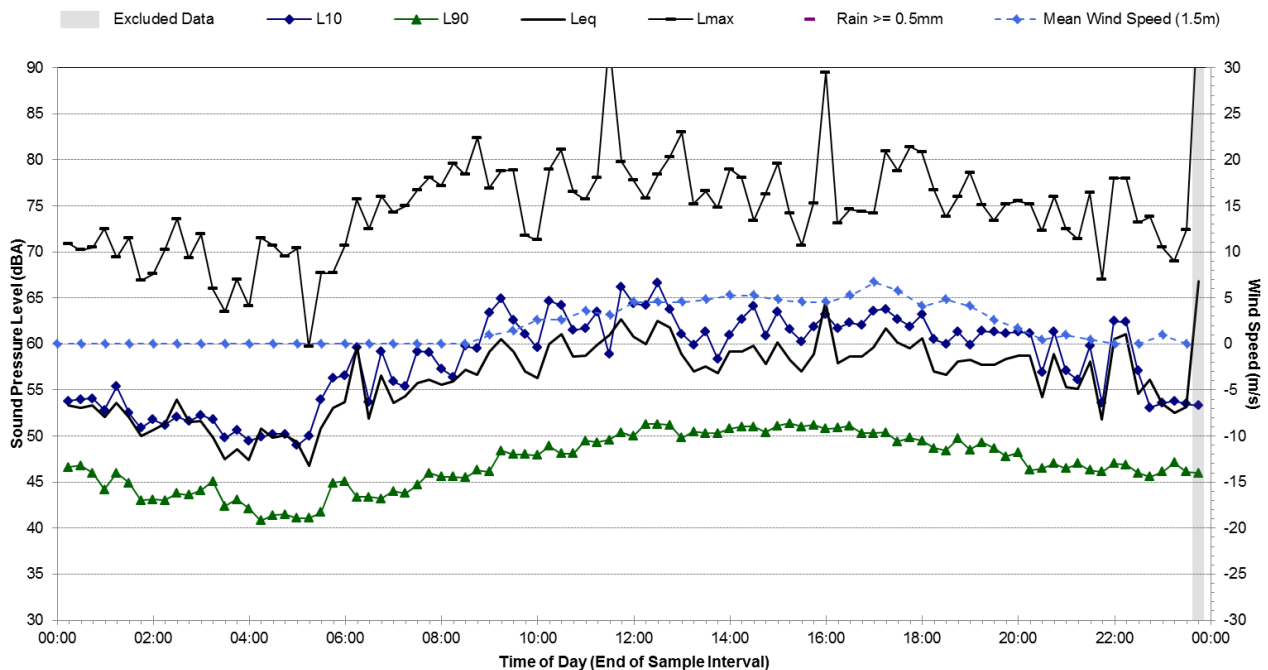
#### Statistical Ambient Noise Levels

ADD09 - Saturday, 24 October 2015



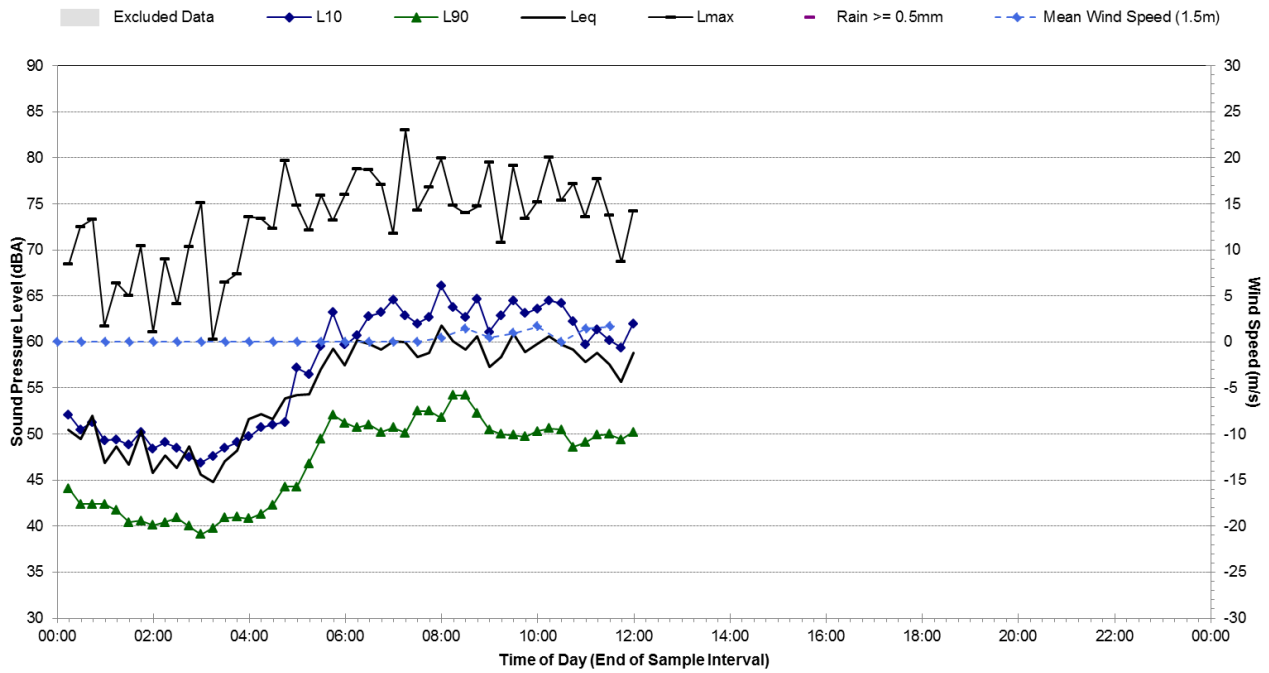
#### Statistical Ambient Noise Levels

ADD09 - Sunday, 25 October 2015



ADD09 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels ADD09 - Monday, 26 October 2015



# Appendix ADD10

M4 East Additional Noise Logging Summary 2015

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## ADD10 Ambient Noise Monitoring Results

| Noise Monitoring Location:                                                                                                                                                                                                                                                                                                                              |                                   | ADD10                             |                                  | Map of Noise Monitoring Location                                                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-------------------------------------------------------------------------------------|--|
| Noise Monitoring Address:                                                                                                                                                                                                                                                                                                                               |                                   | 174 Queens Rd, Canada Bay         |                                  |  |  |
| Logger Device Type: Svantek 957                                                                                                                                                                                                                                                                                                                         |                                   |                                   |                                  |                                                                                     |  |
| Logger Serial No: 23815                                                                                                                                                                                                                                                                                                                                 |                                   |                                   |                                  |                                                                                     |  |
| Ambient noise logger deployed immediately outside residential address 174 Queens Rd, Canada Bay. Logger located in front yard on southern side of property.                                                                                                                                                                                             |                                   |                                   |                                  |                                                                                     |  |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Queens Rd during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Queens Rd can be heard at this location with discrete traffic noise level peaks from heavy vehicle movements occurring frequently. |                                   |                                   |                                  |                                                                                     |  |
| Recorded Noise Levels (LAm <sub>ax</sub> ):                                                                                                                                                                                                                                                                                                             |                                   |                                   |                                  |                                                                                     |  |
| Queens Rd Heavy-vehicle road traffic: 73-89 dBA, Queens Rd Light-vehicle road traffic: 67-71 dBA, Air traffic: 65 dBA                                                                                                                                                                                                                                   |                                   |                                   |                                  |                                                                                     |  |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                                                                                                                |                                   |                                   |                                  |                                                                                     |  |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                       | Noise Level (dBA)                 |                                   |                                  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                         | RBL                               | LA <sub>eq</sub>                  | L10                              | L1                                                                                  |  |
| Daytime                                                                                                                                                                                                                                                                                                                                                 | 57                                | 70                                | 72                               | 76                                                                                  |  |
| Evening                                                                                                                                                                                                                                                                                                                                                 | 50                                | 69                                | 71                               | 75                                                                                  |  |
| Night-time                                                                                                                                                                                                                                                                                                                                              | 42                                | 65                                | 68                               | 74                                                                                  |  |
| Ambient Noise Logging Results – RNP Defined Time Periods                                                                                                                                                                                                                                                                                                |                                   |                                   |                                  |                                                                                     |  |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                       | Noise Level (dBA)                 |                                   |                                  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                         | Weekday LA <sub>eq</sub> (Period) | Weekend LA <sub>eq</sub> (Period) | Weekly LA <sub>eq</sub> (Period) |                                                                                     |  |
| Number of Valid Days                                                                                                                                                                                                                                                                                                                                    | 5                                 | 4                                 | N/A (7 Day Average)              |                                                                                     |  |
| Daytime (7am-10pm)                                                                                                                                                                                                                                                                                                                                      | 70                                | 69                                | 69                               |                                                                                     |  |
| Night-time (10pm-7am)                                                                                                                                                                                                                                                                                                                                   | 66                                | 65                                | 65                               |                                                                                     |  |
| Attended Noise Measurement Results                                                                                                                                                                                                                                                                                                                      |                                   |                                   |                                  |                                                                                     |  |
| Date                                                                                                                                                                                                                                                                                                                                                    | Start Time                        | Measured Noise Level (dBA)        |                                  |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                         |                                   | LA90                              | LA <sub>eq</sub>                 | LAm <sub>ax</sub>                                                                   |  |
| 16/10/2015                                                                                                                                                                                                                                                                                                                                              | 14:36                             | 64                                | 70                               | 89                                                                                  |  |

| Photo of Noise Monitoring Location                                                   |  |
|--------------------------------------------------------------------------------------|--|
|  |  |

## Appendix ADD10

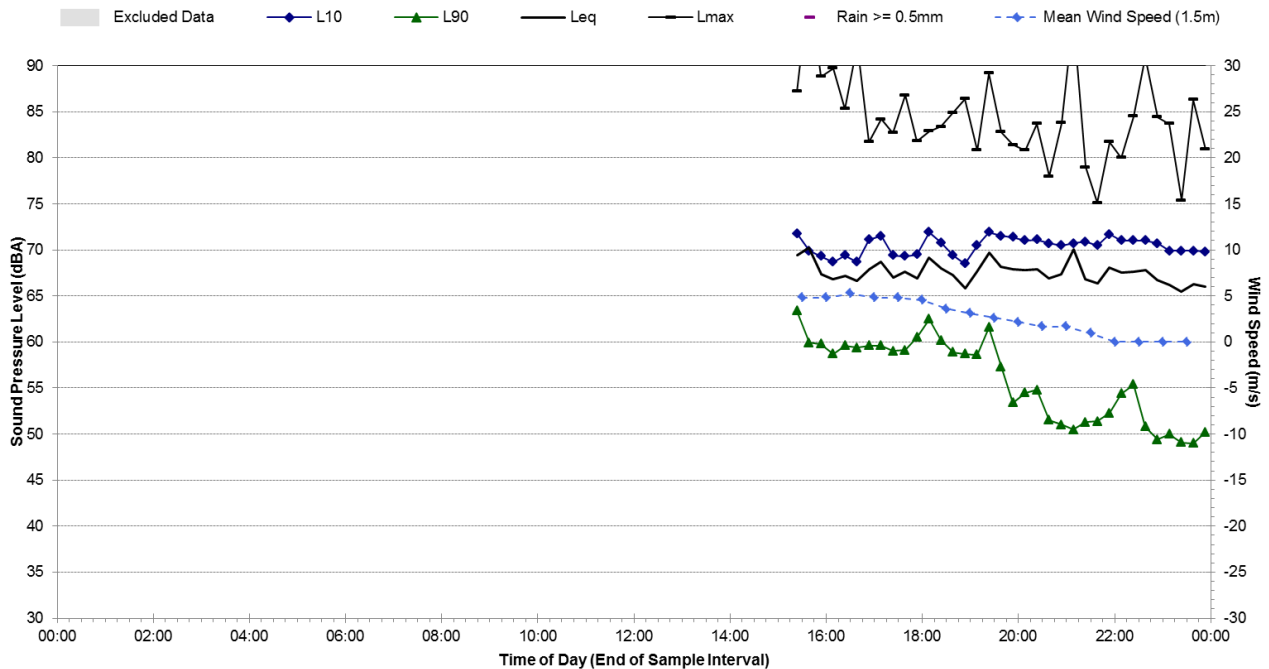
M4 East Additional Noise Logging Summary 2015

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### ADD10 Ambient Noise Monitoring Results

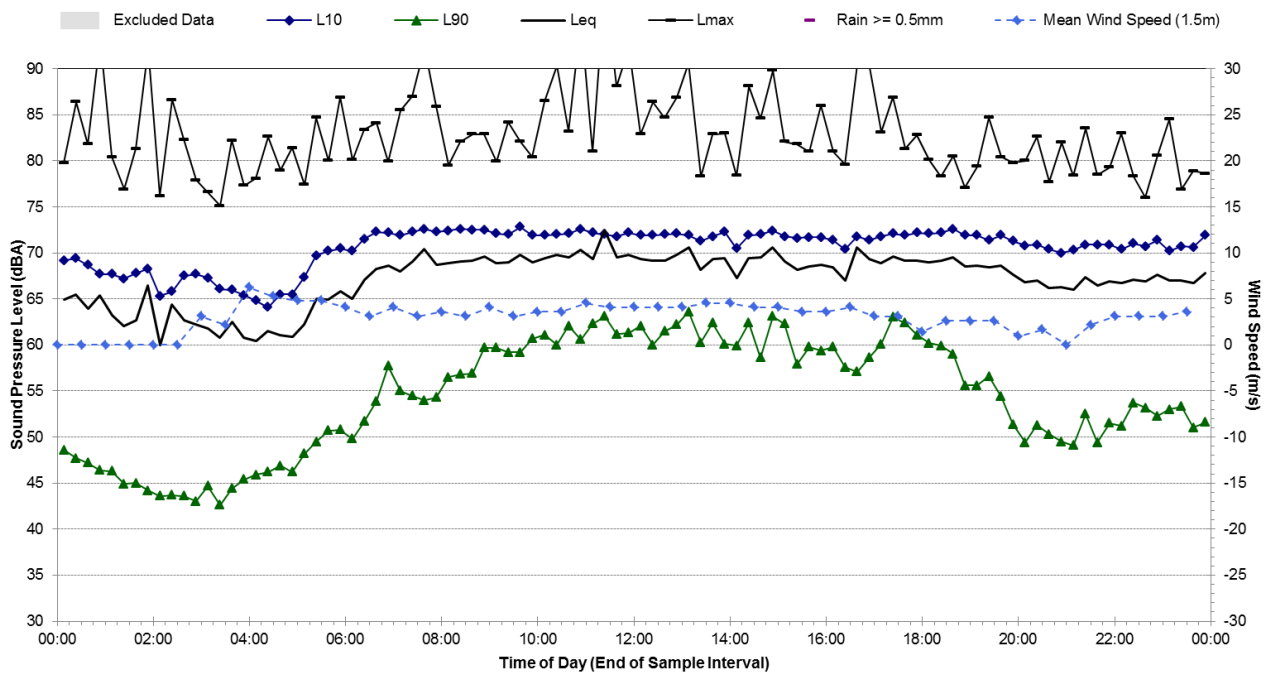
#### Statistical Ambient Noise Levels

ADD10 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD10 - Saturday, 17 October 2015



## Appendix ADD10

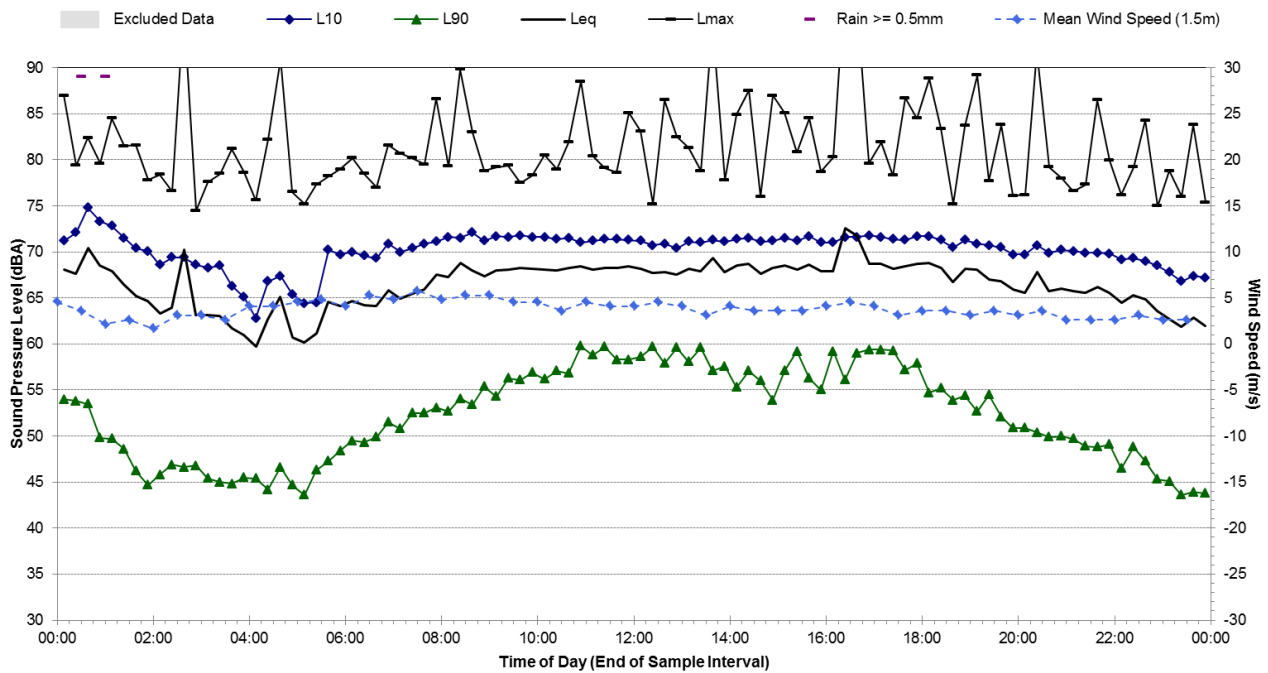
M4 East Additional Noise Logging Summary 2015

Page 3 of 7

### ADD10 Ambient Noise Monitoring Results

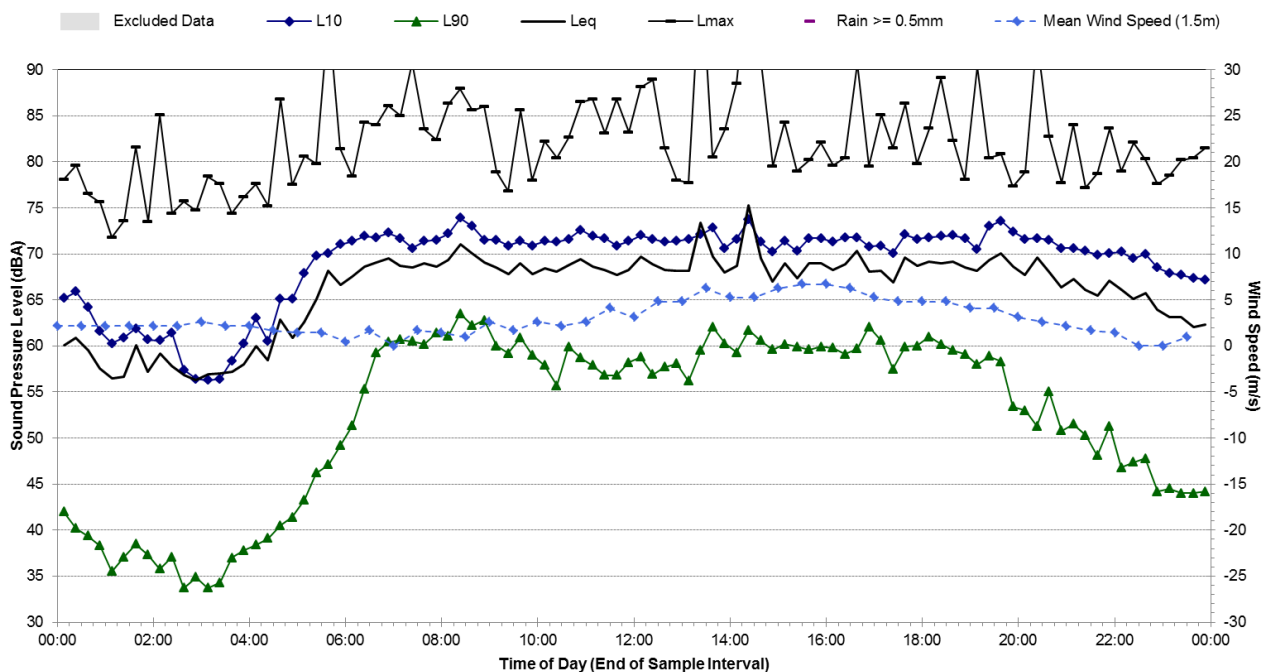
#### Statistical Ambient Noise Levels

ADD10 - Sunday, 18 October 2015



#### Statistical Ambient Noise Levels

ADD10 - Monday, 19 October 2015



## Appendix ADD10

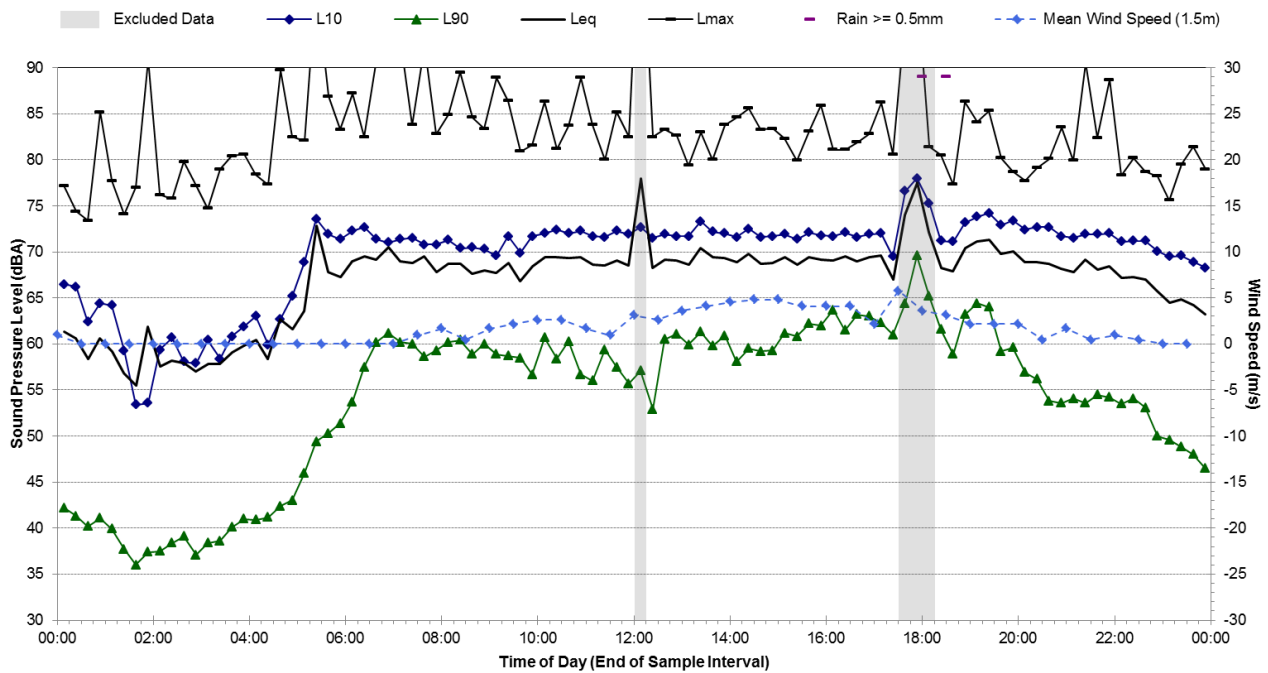
M4 East Additional Noise Logging Summary 2015

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### ADD10 Ambient Noise Monitoring Results

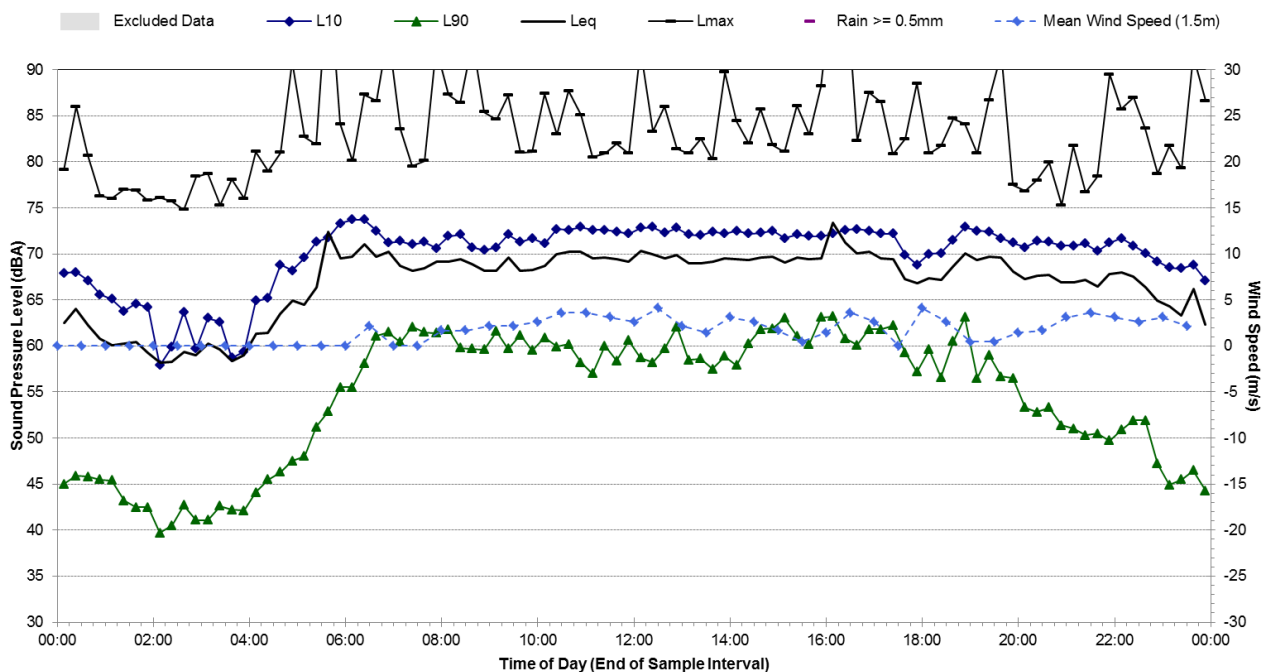
#### Statistical Ambient Noise Levels

ADD10 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD10 - Wednesday, 21 October 2015





## Appendix ADD10

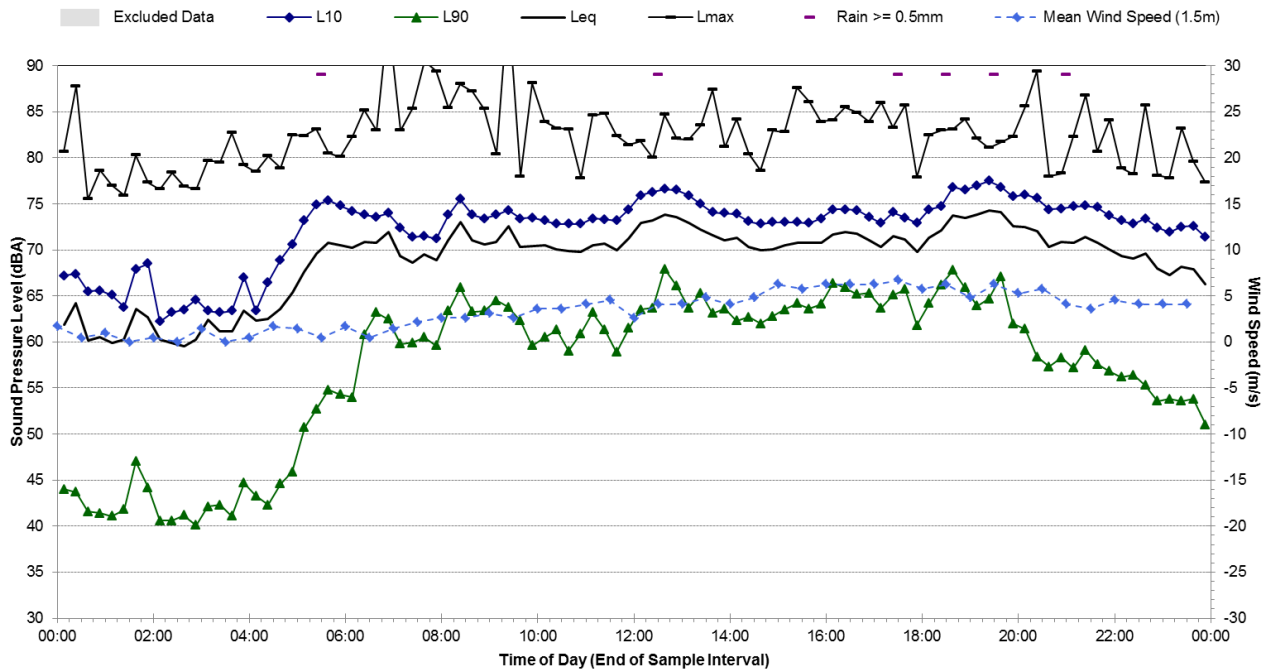
M4 East Additional Noise Logging Summary 2015

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### ADD10 Ambient Noise Monitoring Results

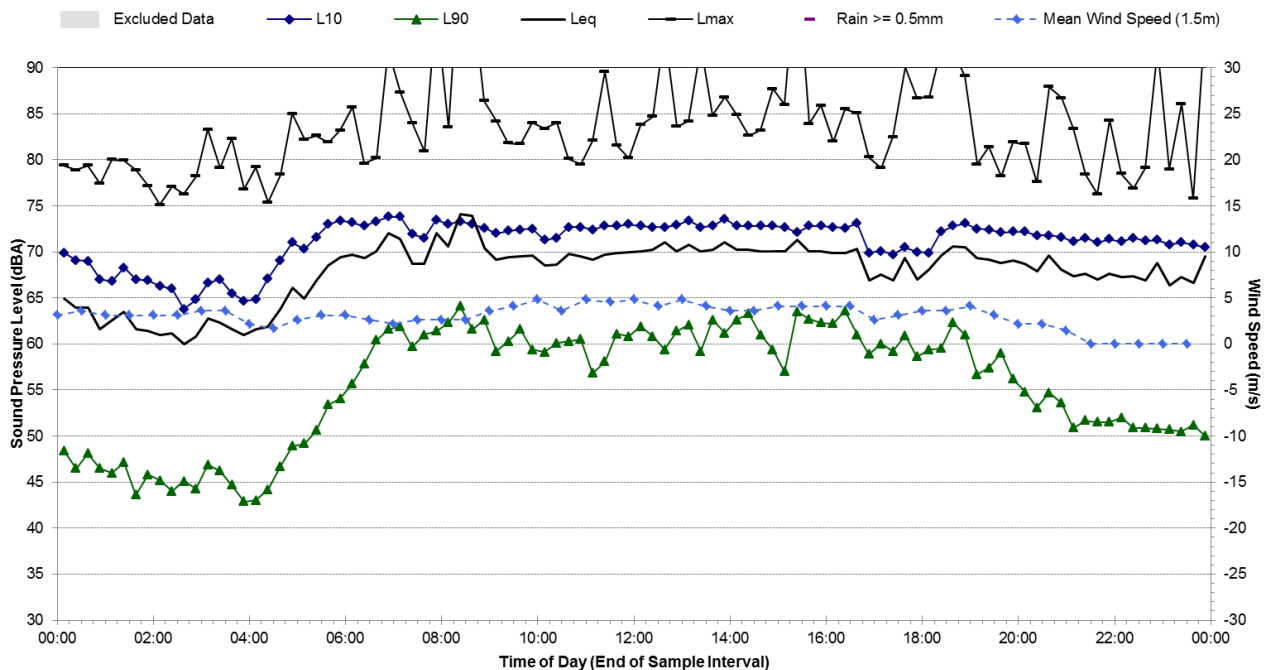
#### Statistical Ambient Noise Levels

ADD10 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD10 - Friday, 23 October 2015



## Appendix ADD10

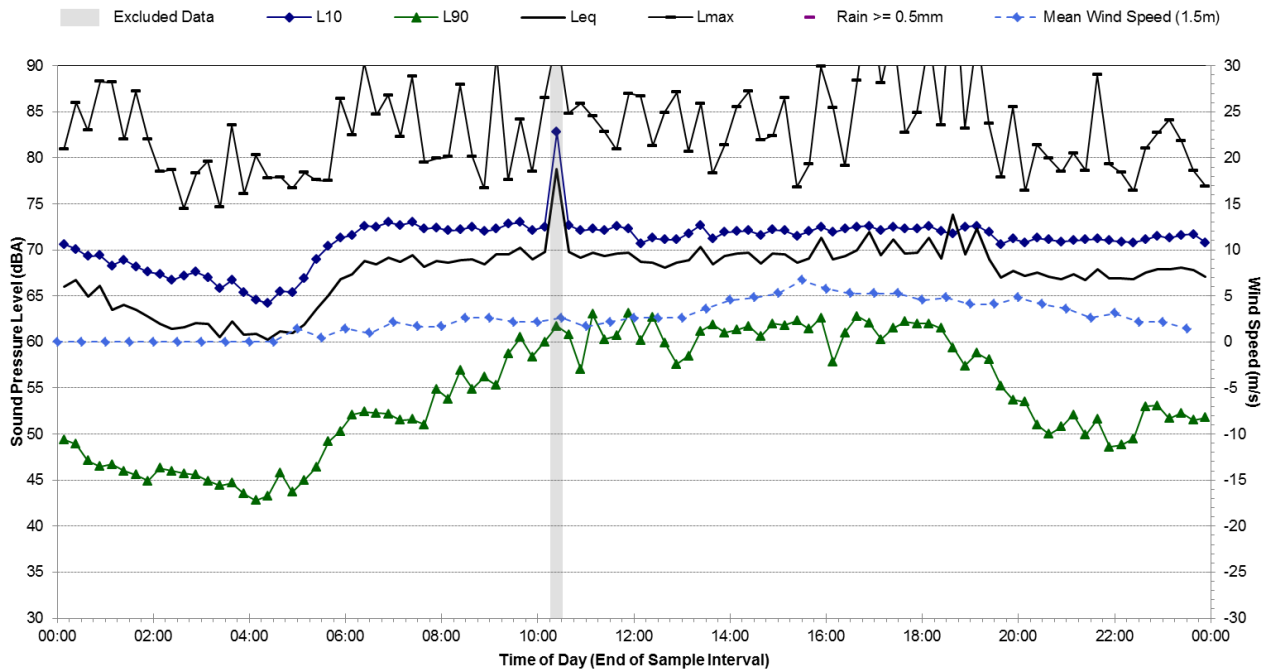
M4 East Additional Noise Logging Summary 2015

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### ADD10 Ambient Noise Monitoring Results

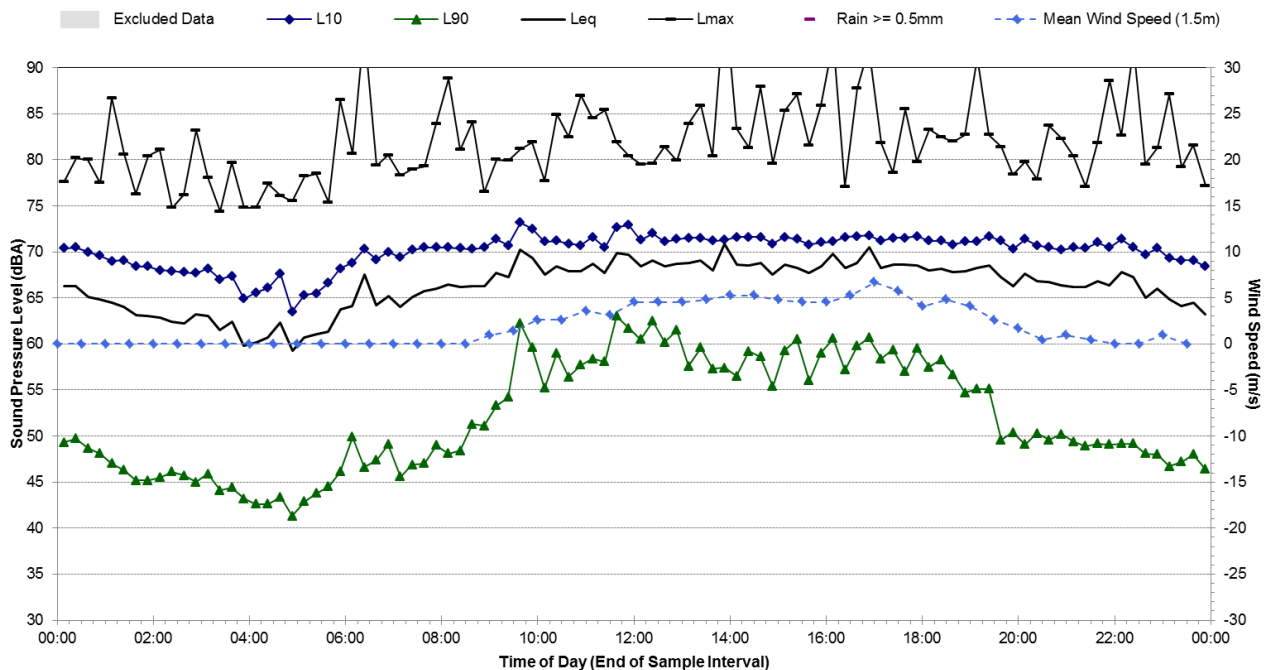
#### Statistical Ambient Noise Levels

ADD10 - Saturday, 24 October 2015



#### Statistical Ambient Noise Levels

ADD10 - Sunday, 25 October 2015



# Appendix ADD10

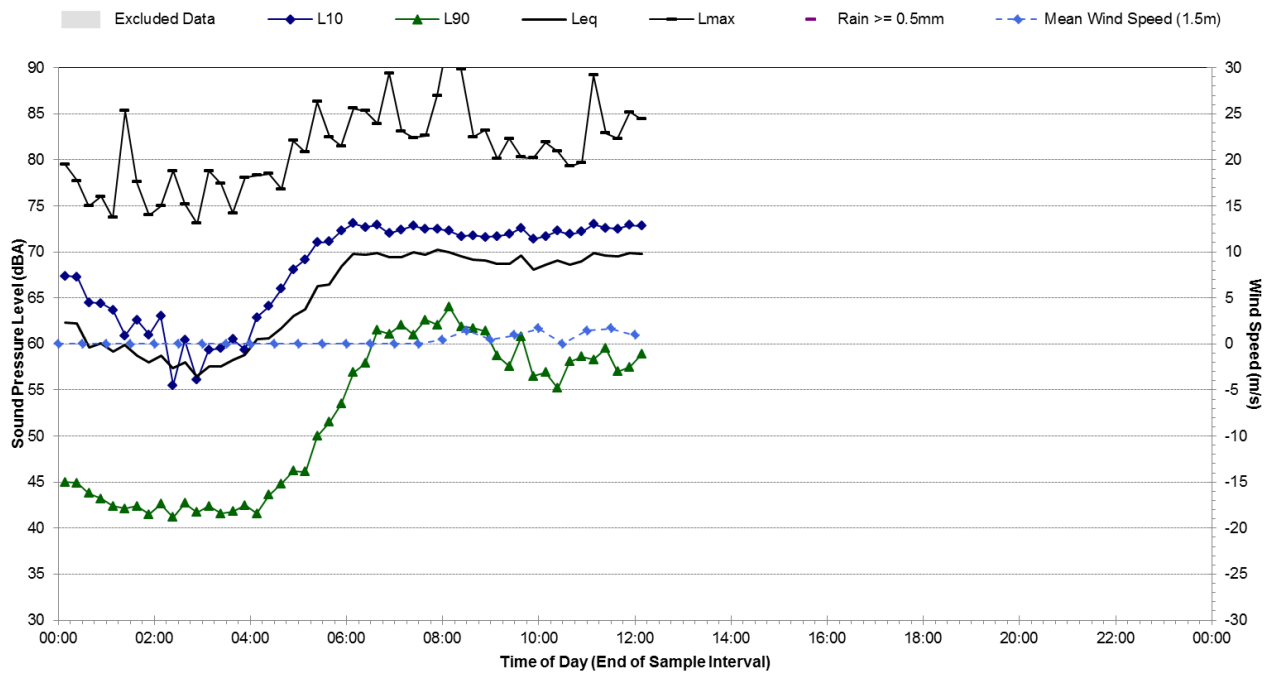
M4 East Additional Noise Logging Summary 2015

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## ADD10 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels

ADD10 - Monday, 26 October 2015

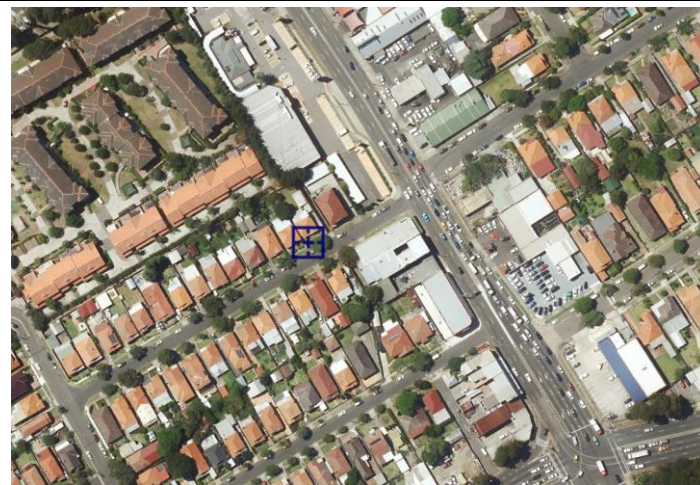


# Appendix ADD11

M4 East Additional Noise Logging Summary 2015

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## ADD11 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                                                                                                                                 |                      |                                                                                      |                     |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------|---------------------|-------------------|
| Noise Monitoring Location: ADD11                                                                                                                                                                                                                                                                                                                                |                      | Map of Noise Monitoring Location                                                     |                     |                   |
| Noise Monitoring Address: 28 Page Ave, Ashfield                                                                                                                                                                                                                                                                                                                 |                      |   |                     |                   |
| Logger Device Type: Svantek 957                                                                                                                                                                                                                                                                                                                                 |                      |                                                                                      |                     |                   |
| Logger Serial No: 21884                                                                                                                                                                                                                                                                                                                                         |                      |                                                                                      |                     |                   |
| Ambient noise logger deployed immediately outside residential address 28 Page Ave, Ashfield. Logger located in front yard on southern side of property.                                                                                                                                                                                                         |                      |                                                                                      |                     |                   |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Parramatta Rd during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Parramatta Rd can be heard at this location with discrete traffic noise level peaks from heavy vehicle movements occurring frequently. |                      |                                                                                      |                     |                   |
| Recorded Noise Levels (L <sub>Amax</sub> ):<br>Parramatta Rd Heavy-vehicle road traffic: 60-74 dBA, Parramatta Rd Light-vehicle road traffic: 59-66dBA, Insects: 55-57 dBA                                                                                                                                                                                      |                      |                                                                                      |                     |                   |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                                                                                                                        |                      |                                                                                      |                     |                   |
| Monitoring Period                                                                                                                                                                                                                                                                                                                                               | Noise Level (dBA)    |                                                                                      |                     |                   |
|                                                                                                                                                                                                                                                                                                                                                                 | RBL                  | LAeq                                                                                 | L10                 | L1                |
| Daytime                                                                                                                                                                                                                                                                                                                                                         | 47                   | 58                                                                                   | 59                  | 67                |
| Evening                                                                                                                                                                                                                                                                                                                                                         | 46                   | 57                                                                                   | 58                  | 64                |
| Night-time                                                                                                                                                                                                                                                                                                                                                      | 40                   | 55                                                                                   | 56                  | 62                |
| 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                                                                                                                                                                                                                                                                                                                                            | 7                    | 4                                                                                    | N/A (7 Day Average) |                   |
| Daytime (7am-10pm)                                                                                                                                                                                                                                                                                                                                              | 58                   | 57                                                                                   | 58                  |                   |
| Night-time (10pm-7am)                                                                                                                                                                                                                                                                                                                                           | 56                   | 55                                                                                   | 56                  |                   |
| Attended Noise Measurement Results                                                                                                                                                                                                                                                                                                                              |                      |                                                                                      |                     |                   |
| Date                                                                                                                                                                                                                                                                                                                                                            | Start Time           | Measured Noise Level (dBA)                                                           |                     |                   |
|                                                                                                                                                                                                                                                                                                                                                                 |                      | LA90                                                                                 | LAeq                | L <sub>Amax</sub> |
| 16/10/2015                                                                                                                                                                                                                                                                                                                                                      | 15:49                | 52                                                                                   | 58                  | 74                |
|                                                                                                                                                                                                                                                                                                                                                                 |                      | Photo of Noise Monitoring Location                                                   |                     |                   |
|                                                                                                                                                                                                                                                                                                                                                                 |                      |  |                     |                   |



## Appendix ADD11

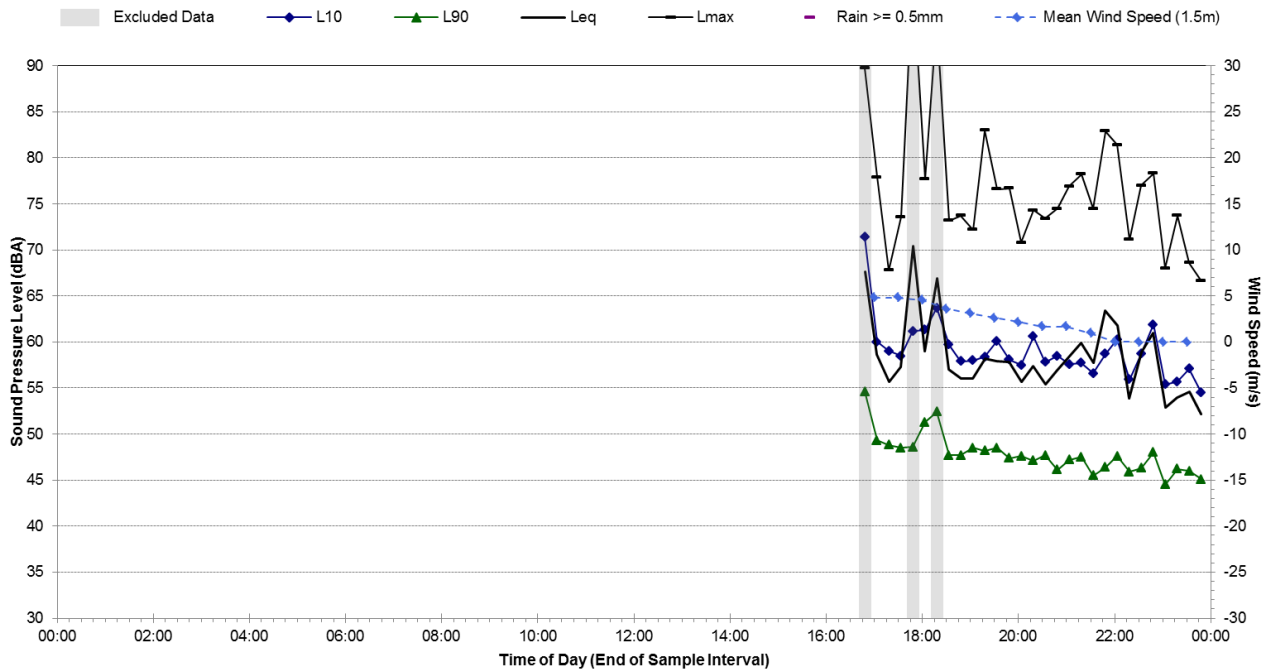
M4 East Additional Noise Logging Summary 2015

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### ADD11 Ambient Noise Monitoring Results

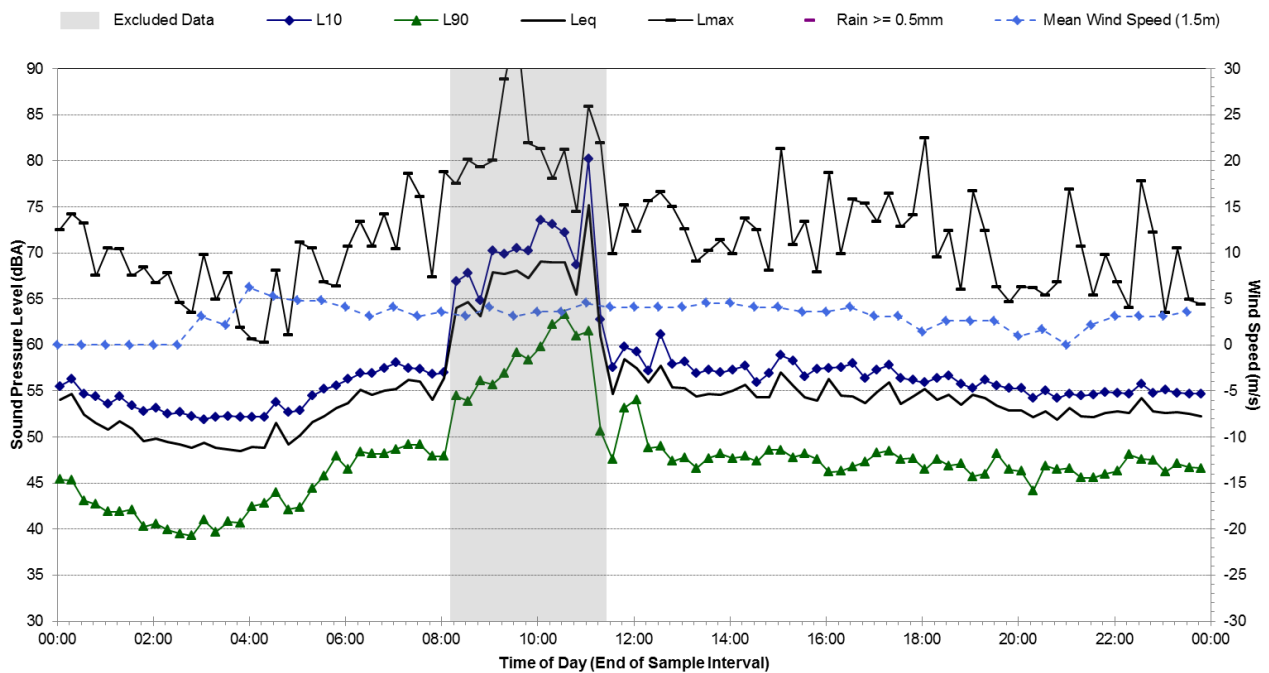
#### Statistical Ambient Noise Levels

ADD11 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD11 - Saturday, 17 October 2015



# Appendix ADD11

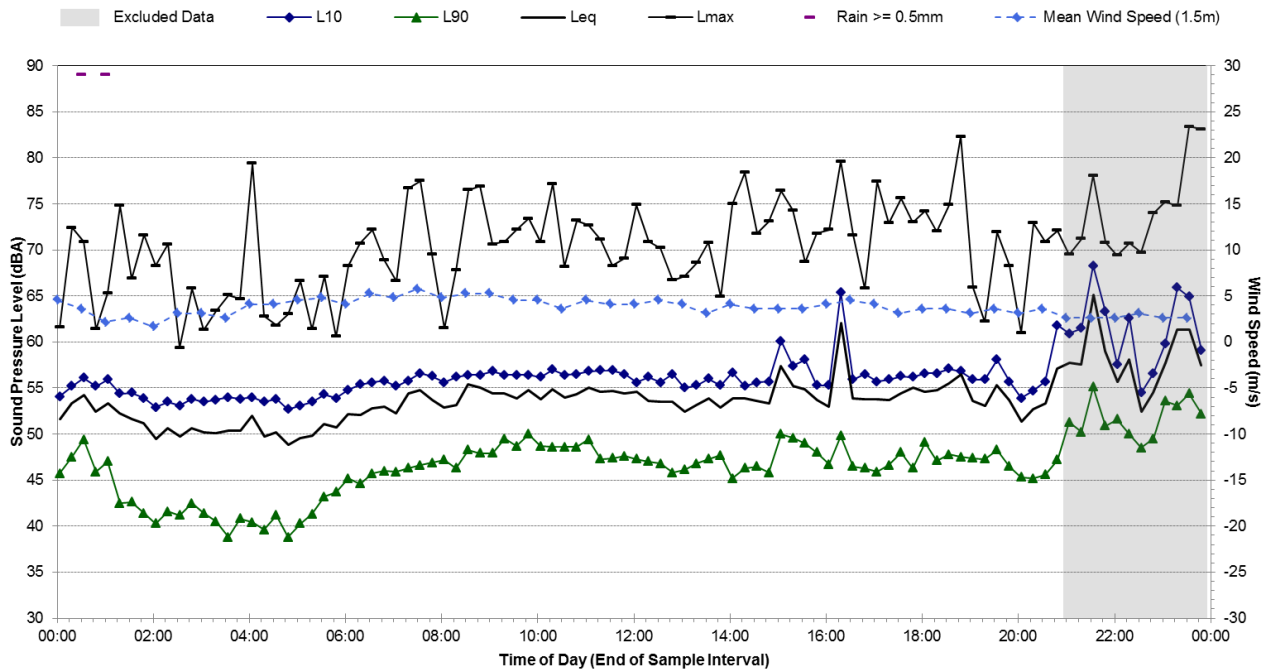
M4 East Additional Noise Logging Summary 2015

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## ADD11 Ambient Noise Monitoring Results

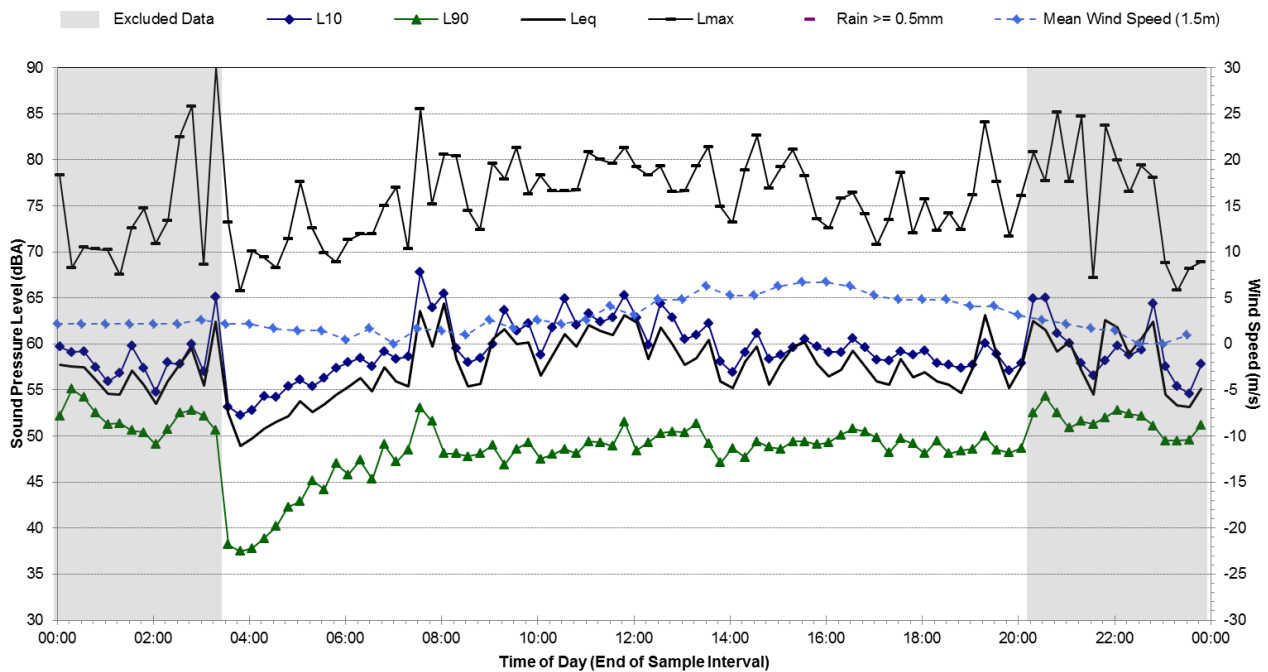
### Statistical Ambient Noise Levels

ADD11 - Sunday, 18 October 2015



### Statistical Ambient Noise Levels

ADD11 - Monday, 19 October 2015





## Appendix ADD11

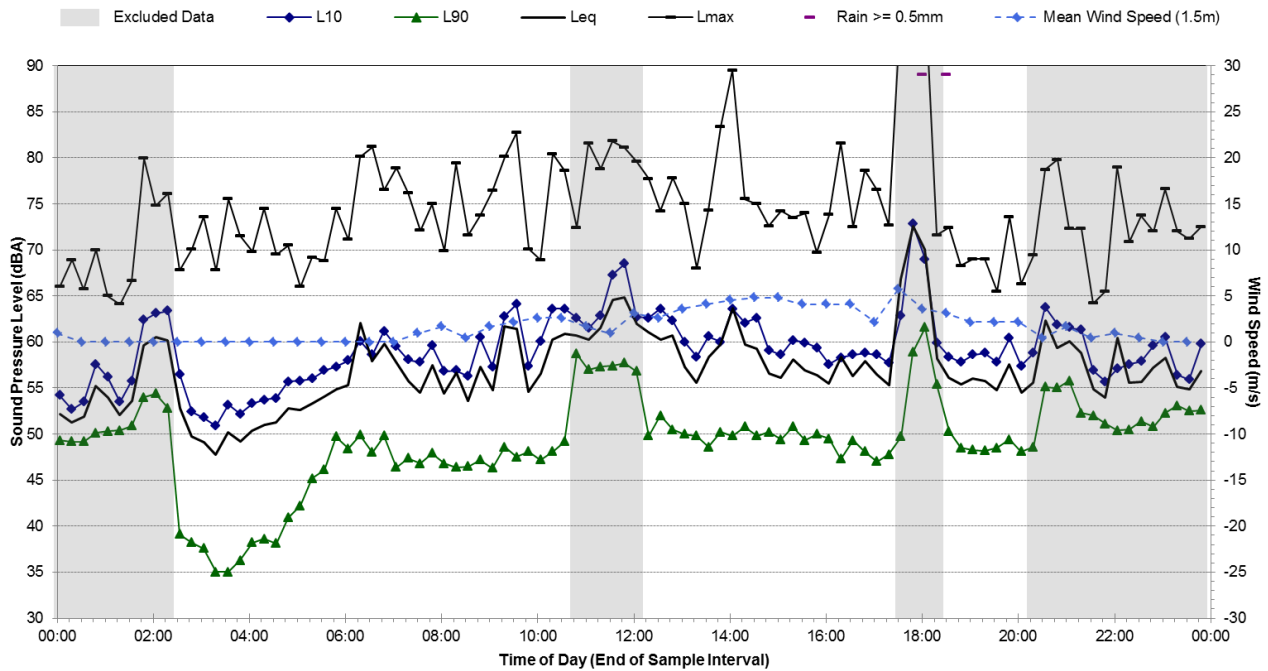
M4 East Additional Noise Logging Summary 2015

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### ADD11 Ambient Noise Monitoring Results

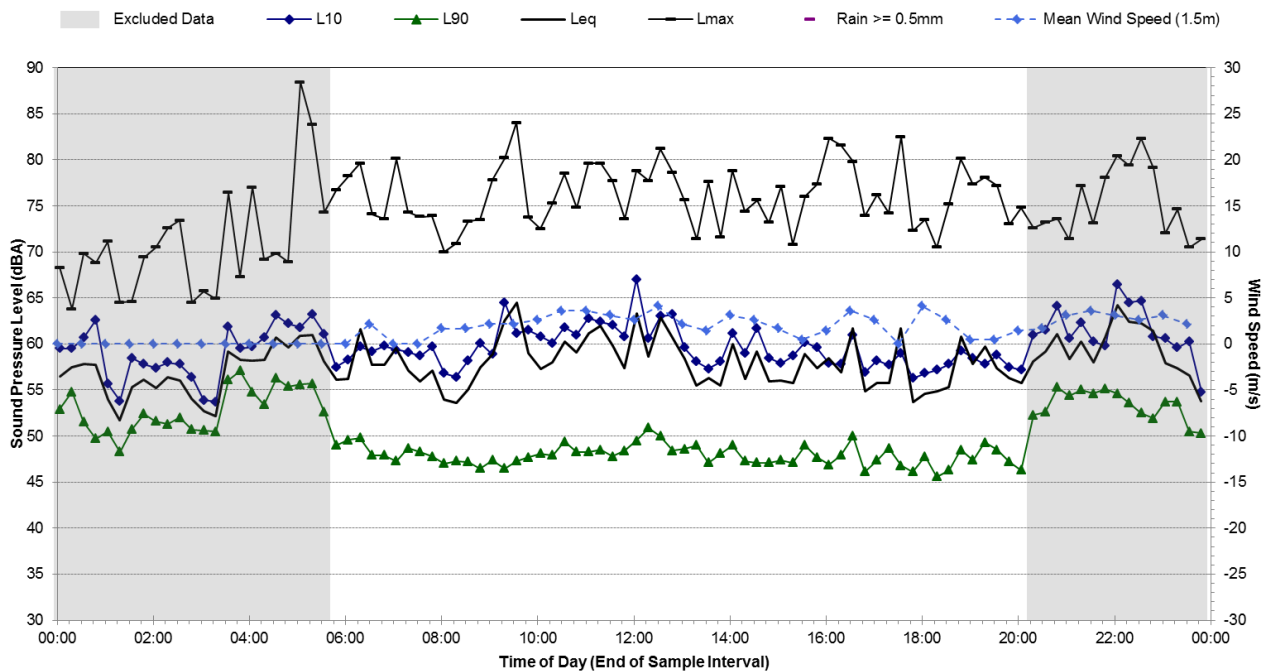
#### Statistical Ambient Noise Levels

ADD11 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD11 - Wednesday, 21 October 2015



## Appendix ADD11

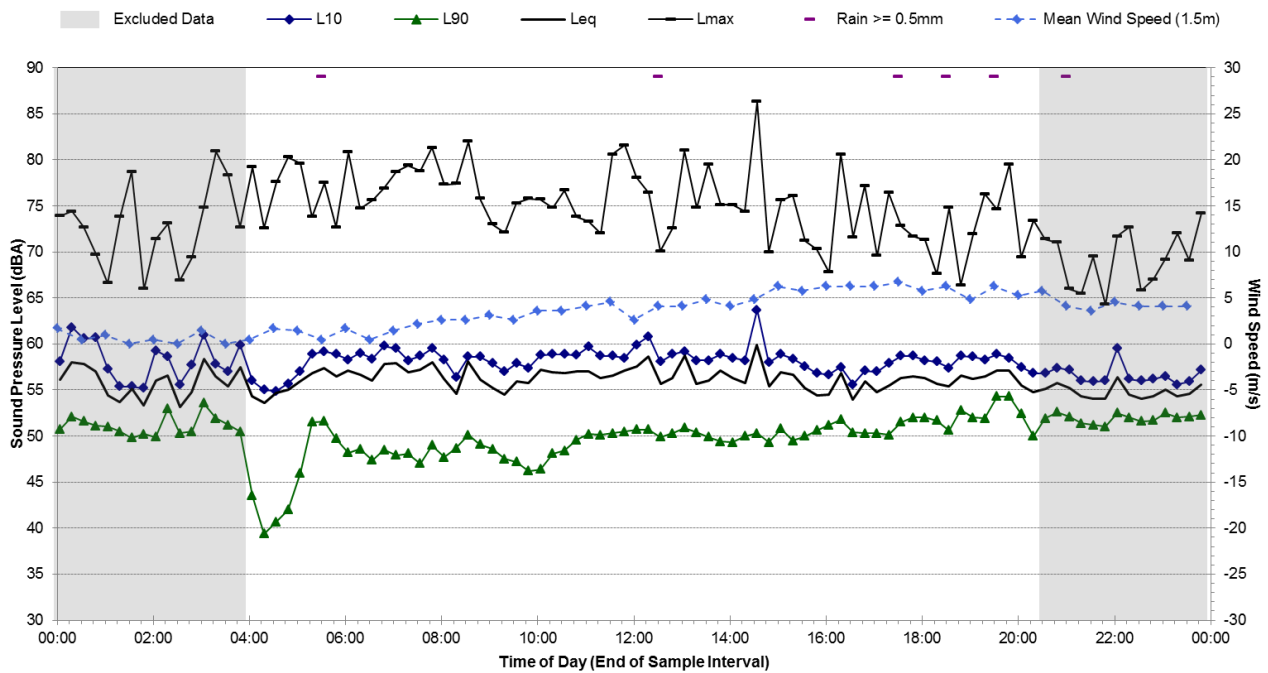
M4 East Additional Noise Logging Summary 2015

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### ADD11 Ambient Noise Monitoring Results

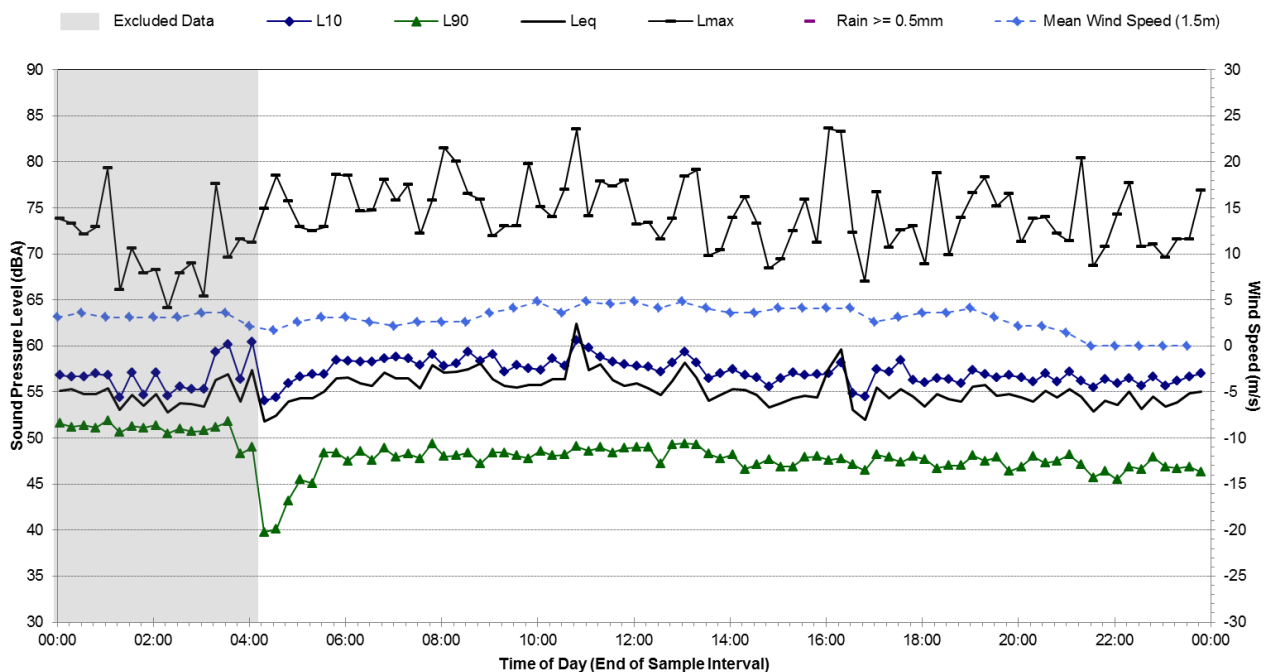
#### Statistical Ambient Noise Levels

ADD11 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD11 - Friday, 23 October 2015



# Appendix ADD11

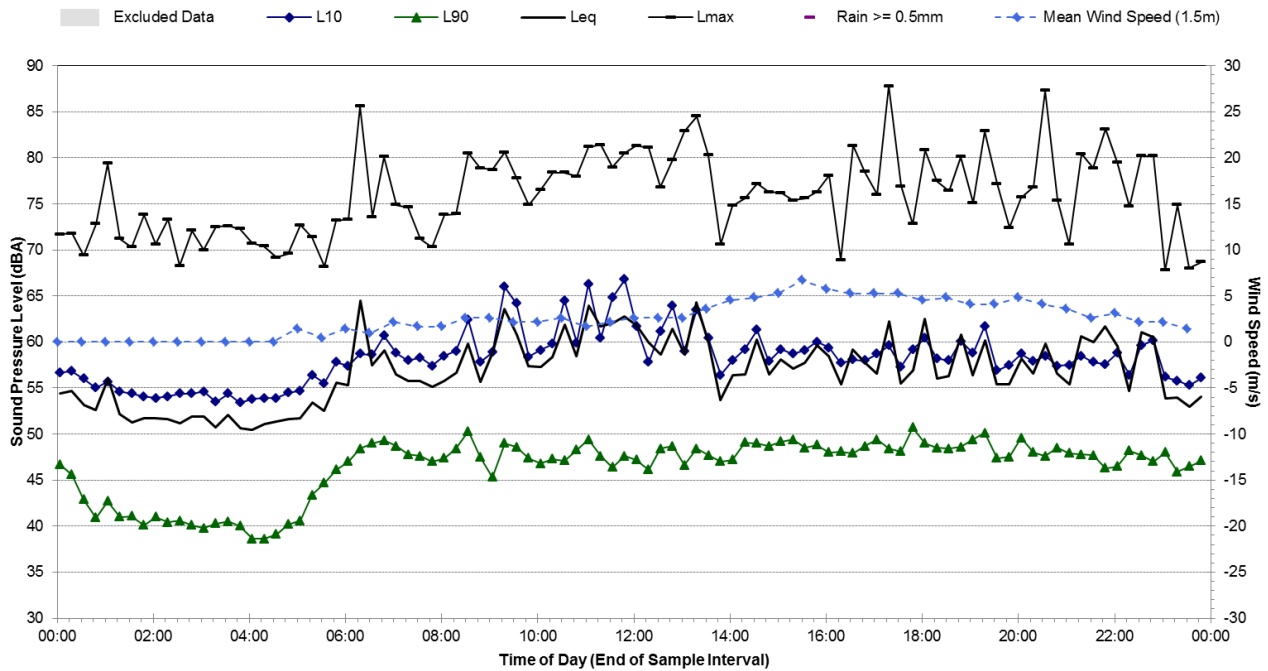
M4 East Additional Noise Logging Summary 2015

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## ADD11 Ambient Noise Monitoring Results

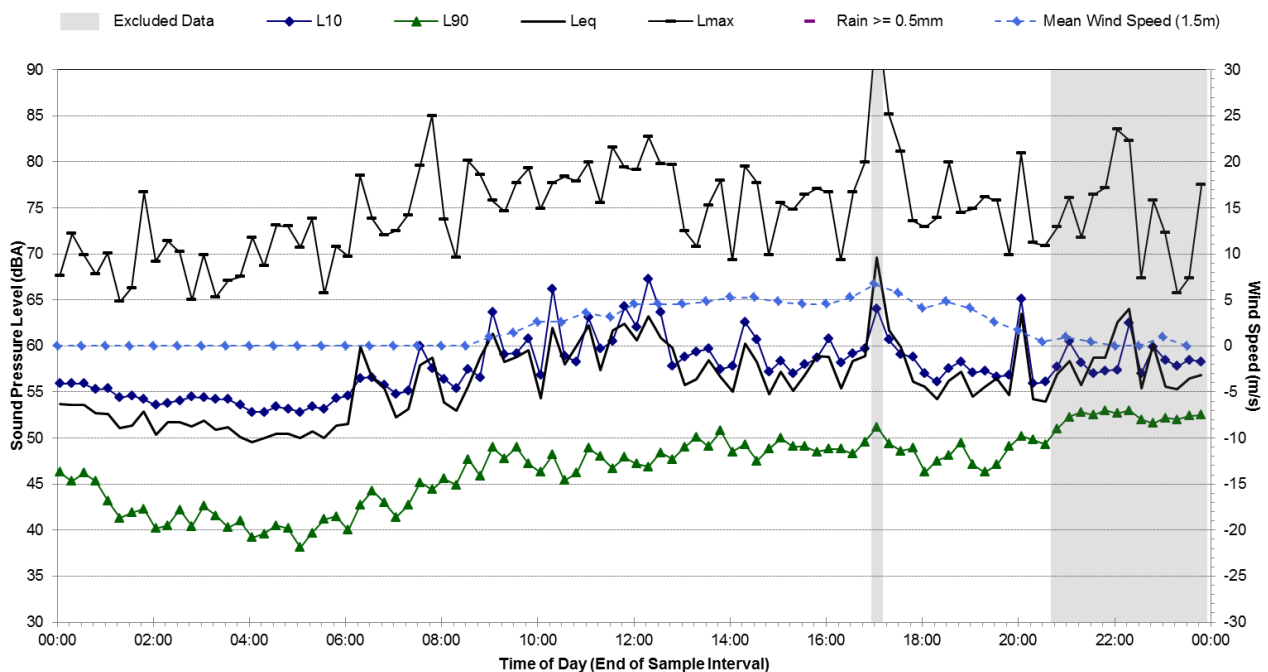
### Statistical Ambient Noise Levels

ADD11 - Saturday, 24 October 2015



### Statistical Ambient Noise Levels

ADD11 - Sunday, 25 October 2015



## Appendix ADD11

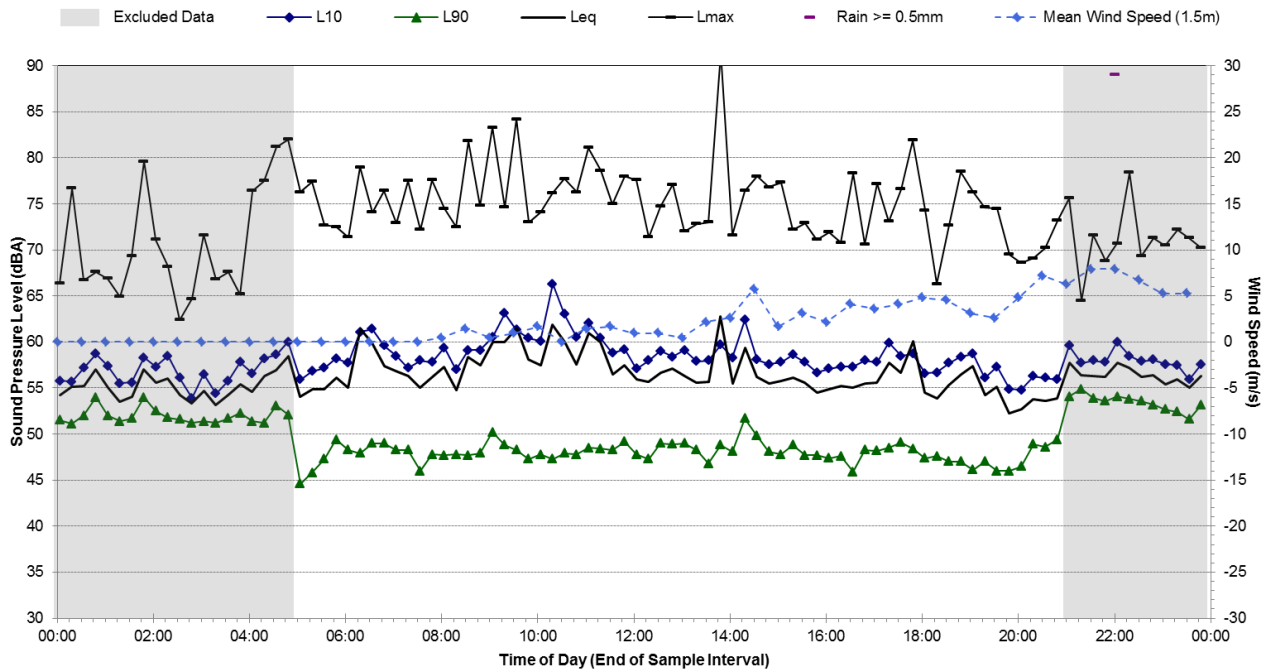
M4 East Additional Noise Logging Summary 2015

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### ADD11 Ambient Noise Monitoring Results

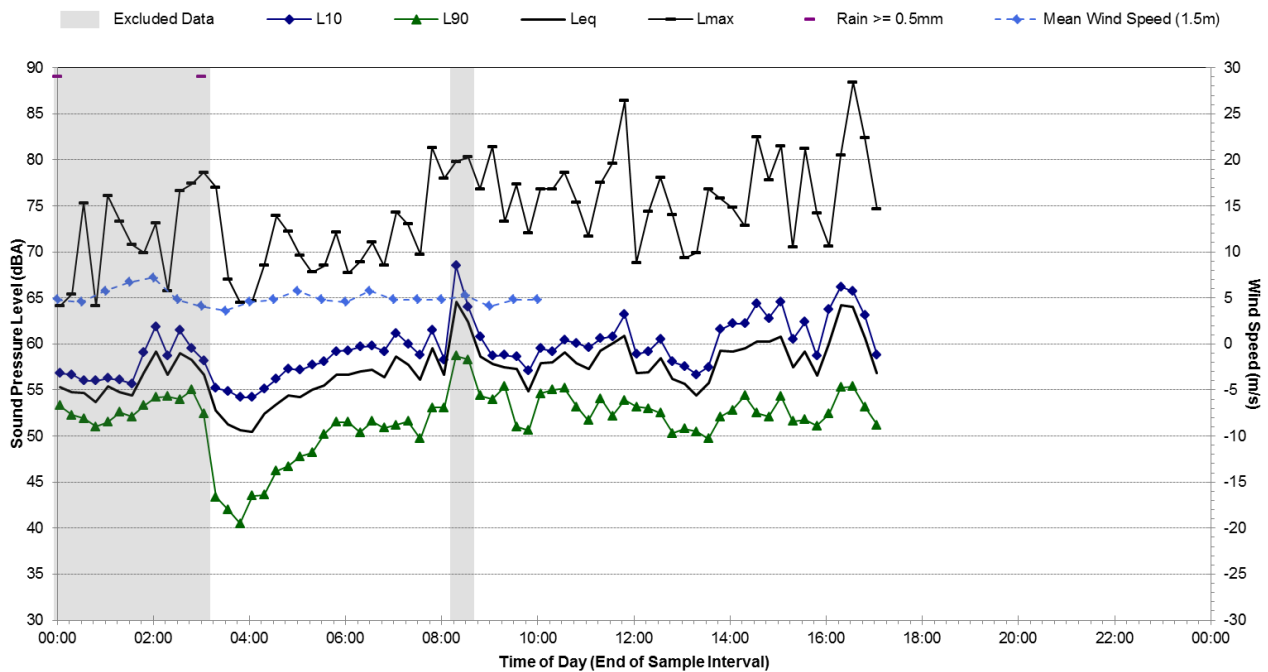
#### Statistical Ambient Noise Levels

ADD11 - Monday, 26 October 2015



#### Statistical Ambient Noise Levels

ADD11 - Tuesday, 27 October 2015

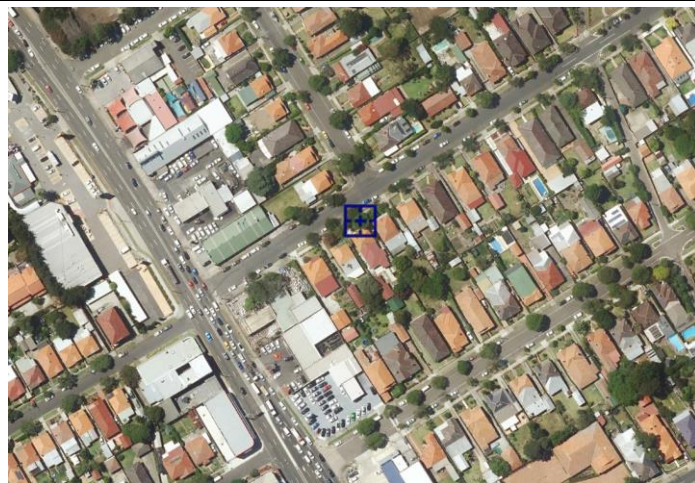


# Appendix ADD12

M4 East Additional Noise Logging Summary 2015

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## ADD12 Ambient Noise Monitoring Results

|                                                                                                                                                                                                                                                                                                                                           |  |                                                                                     |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|--|
| Noise Monitoring Location: ADD12                                                                                                                                                                                                                                                                                                          |  | Map of Noise Monitoring Location                                                    |  |  |
| Noise Monitoring Address: 5 Wolseley St, Haberfield                                                                                                                                                                                                                                                                                       |  |  |  |  |
| Logger Device Type: Svantek 957<br>Logger Serial No: 20667                                                                                                                                                                                                                                                                                |  |                                                                                     |  |  |
| Ambient noise logger deployed immediately outside residential address 5 Wolseley St, Haberfield. Logger located in front yard on northern side of property.                                                                                                                                                                               |  |                                                                                     |  |  |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Wolseley St and Parramatta Rd during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Parramatta Rd can be heard at this location. Local traffic passbys on Wolseley St were frequent. |  |                                                                                     |  |  |
| Recorded Noise Levels (LAmax):<br>Parramatta Rd road traffic: 50 dBA, Wolseley St road traffic: 54-68 dBA, Birds: 74-80 dBA                                                                                                                                                                                                               |  |                                                                                     |  |  |

| Ambient Noise Logging Results – INP Defined Time Periods |                      |                            |                     |       |
|----------------------------------------------------------|----------------------|----------------------------|---------------------|-------|
| Monitoring Period                                        | Noise Level (dBA)    |                            |                     |       |
|                                                          | RBL                  | LAeq                       | L10                 | L1    |
| Daytime                                                  | 45                   | 57                         | 57                  | 67    |
| Evening                                                  | 45                   | 55                         | 55                  | 64    |
| Night-time                                               | 42                   | 54                         | 52                  | 58    |
| 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                                     | 5                    | 4                          | N/A (7 Day Average) |       |
| Daytime (7am-10pm)                                       | 56                   | 57                         | 56                  |       |
| Night-time (10pm-7am)                                    | 54                   | 54                         | 54                  |       |
| Attended Noise Measurement Results                       |                      |                            |                     |       |
| Date                                                     | Start Time           | Measured Noise Level (dBA) |                     |       |
|                                                          |                      | LA90                       | LAeq                | LAmix |
| 16/10/2015                                               | 15:04                | 49                         | 58                  | 80    |

| Photo of Noise Monitoring Location                                                   |  |
|--------------------------------------------------------------------------------------|--|
|  |  |



## Appendix ADD12

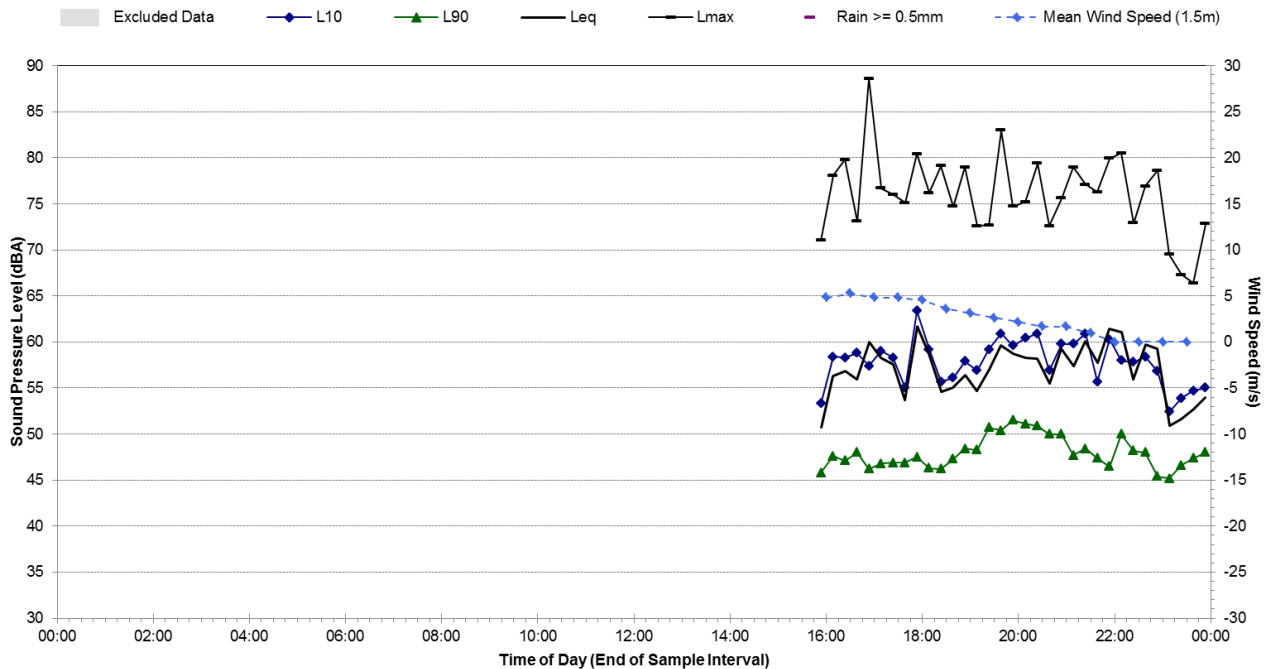
M4 East Additional Noise Logging Summary 2015

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### ADD12 Ambient Noise Monitoring Results

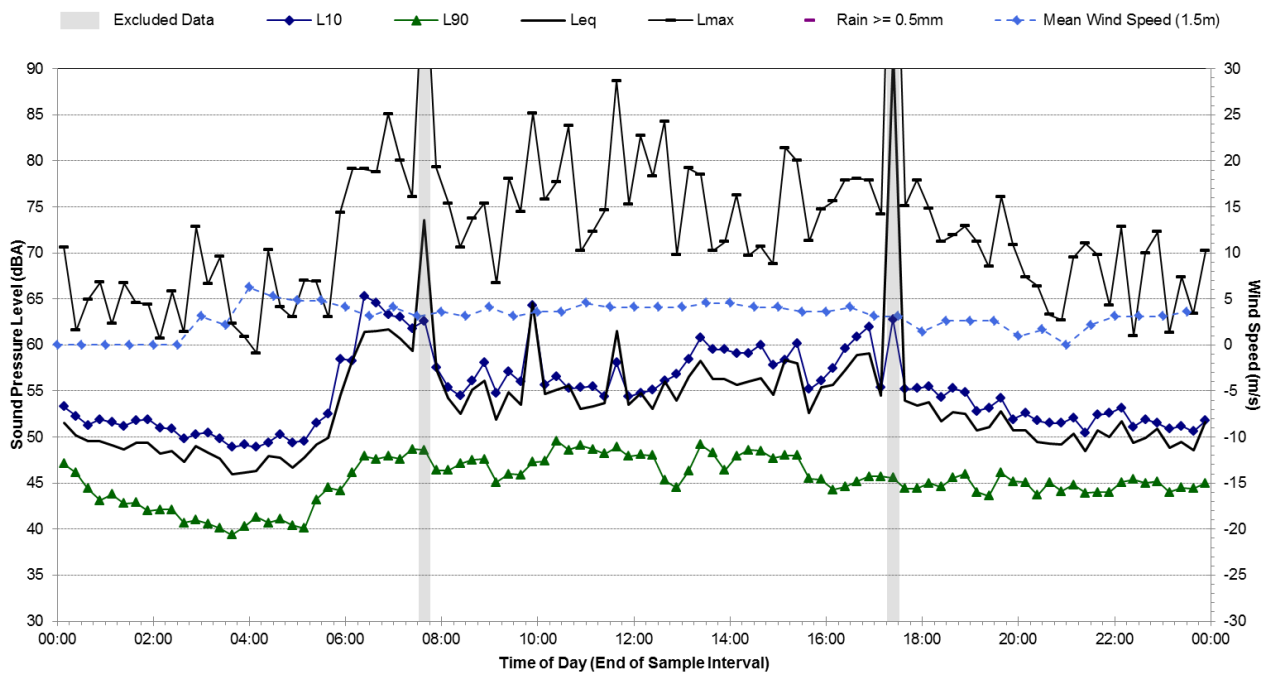
#### Statistical Ambient Noise Levels

ADD12 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD12 - Saturday, 17 October 2015





## Appendix ADD12

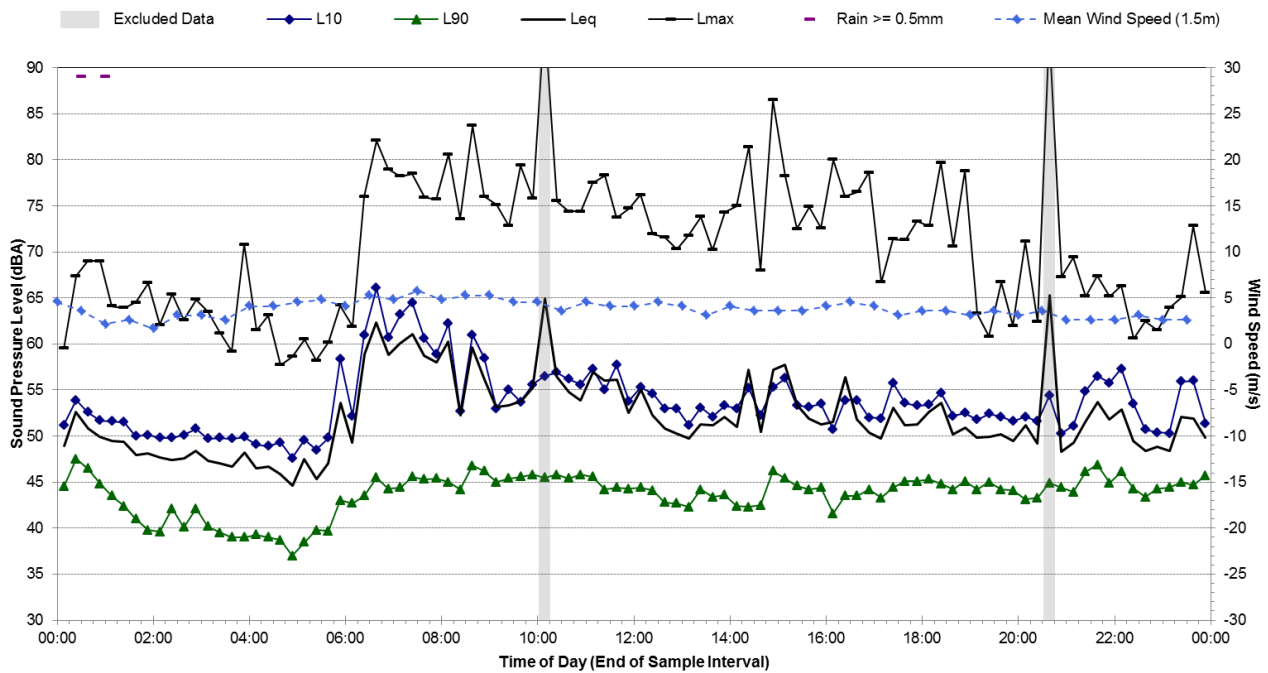
M4 East Additional Noise Logging Summary 2015

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### ADD12 Ambient Noise Monitoring Results

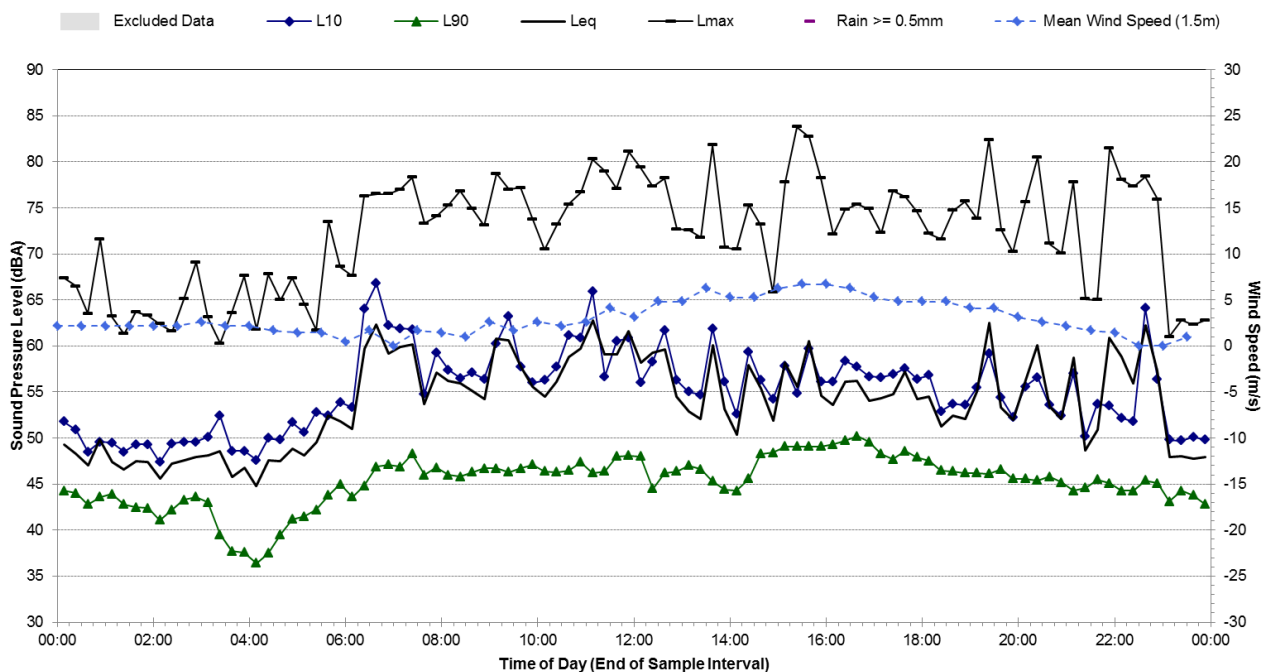
#### Statistical Ambient Noise Levels

ADD12 - Sunday, 18 October 2015



#### Statistical Ambient Noise Levels

ADD12 - Monday, 19 October 2015



## Appendix ADD12

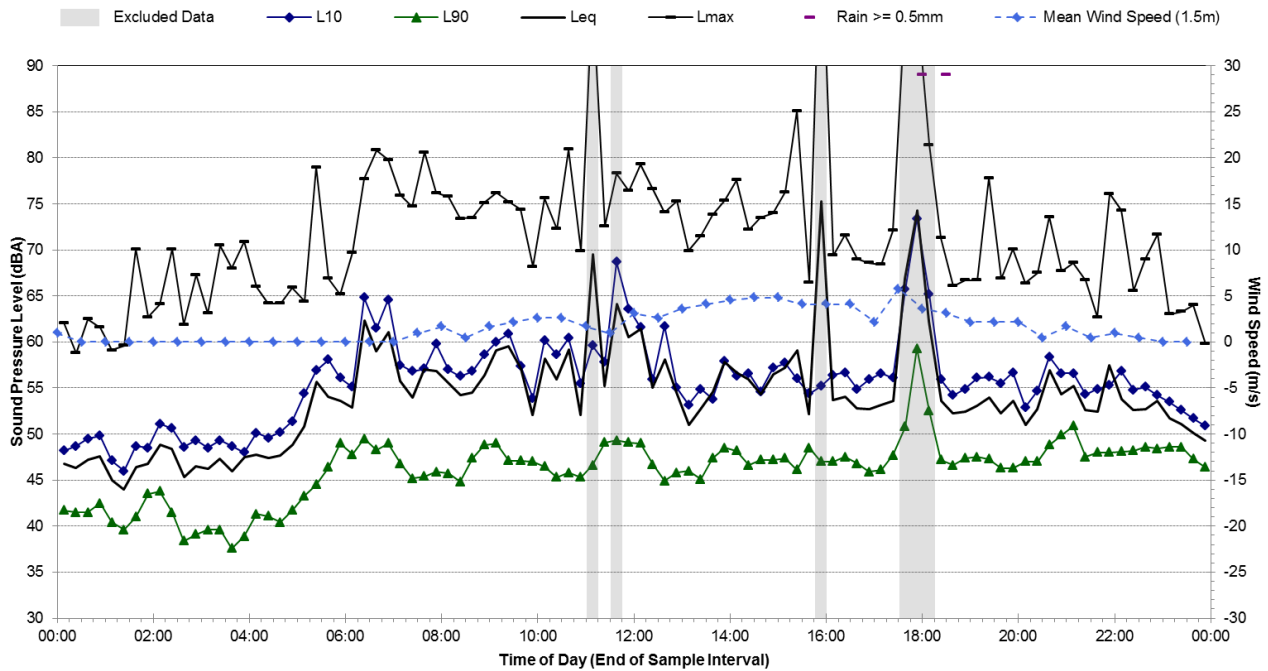
M4 East Additional Noise Logging Summary 2015

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### ADD12 Ambient Noise Monitoring Results

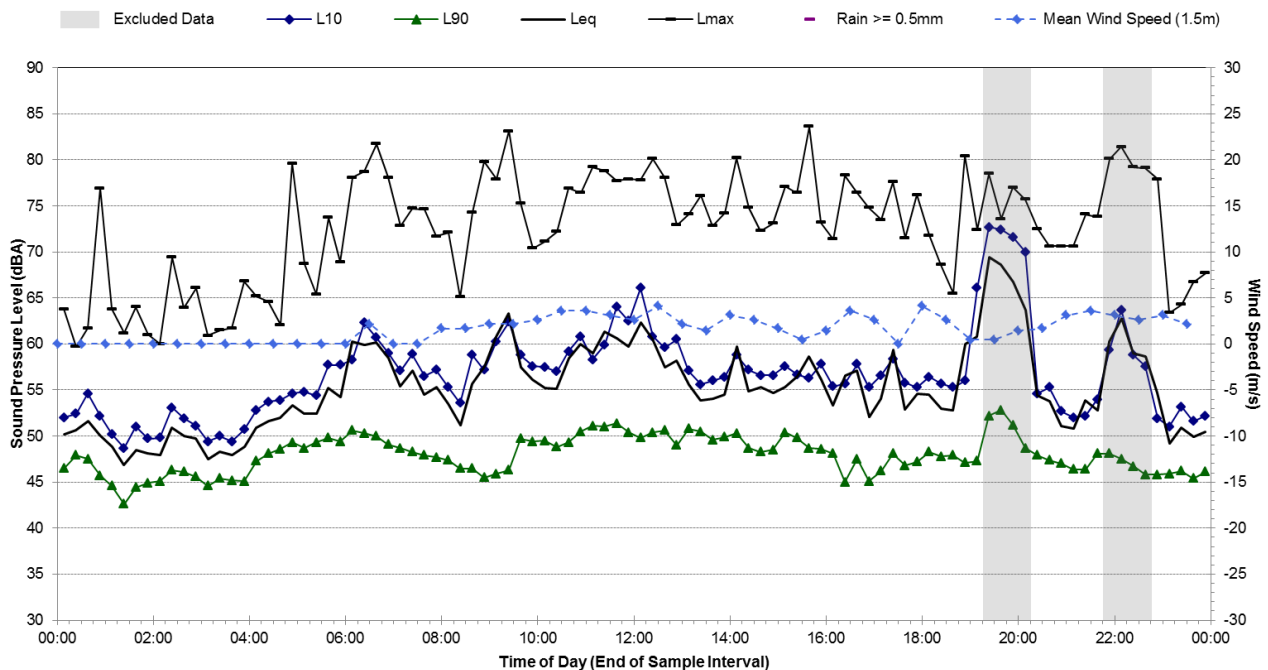
#### Statistical Ambient Noise Levels

ADD12 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD12 - Wednesday, 21 October 2015



## Appendix ADD12

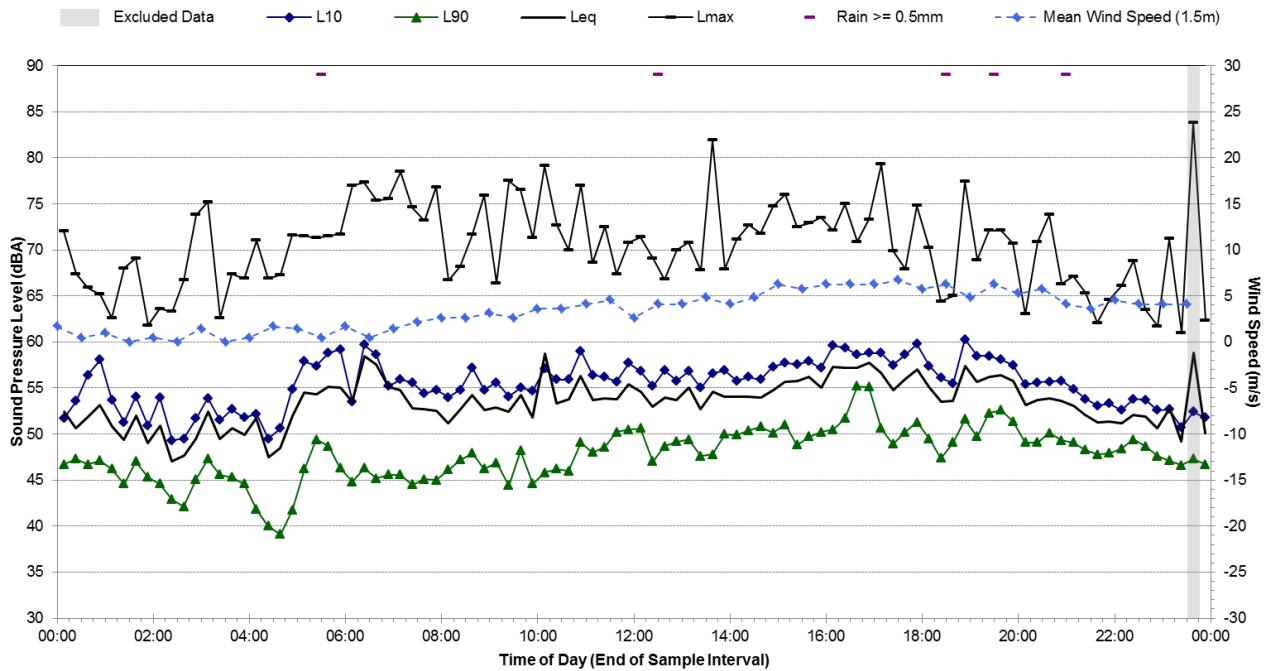
M4 East Additional Noise Logging Summary 2015

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### ADD12 Ambient Noise Monitoring Results

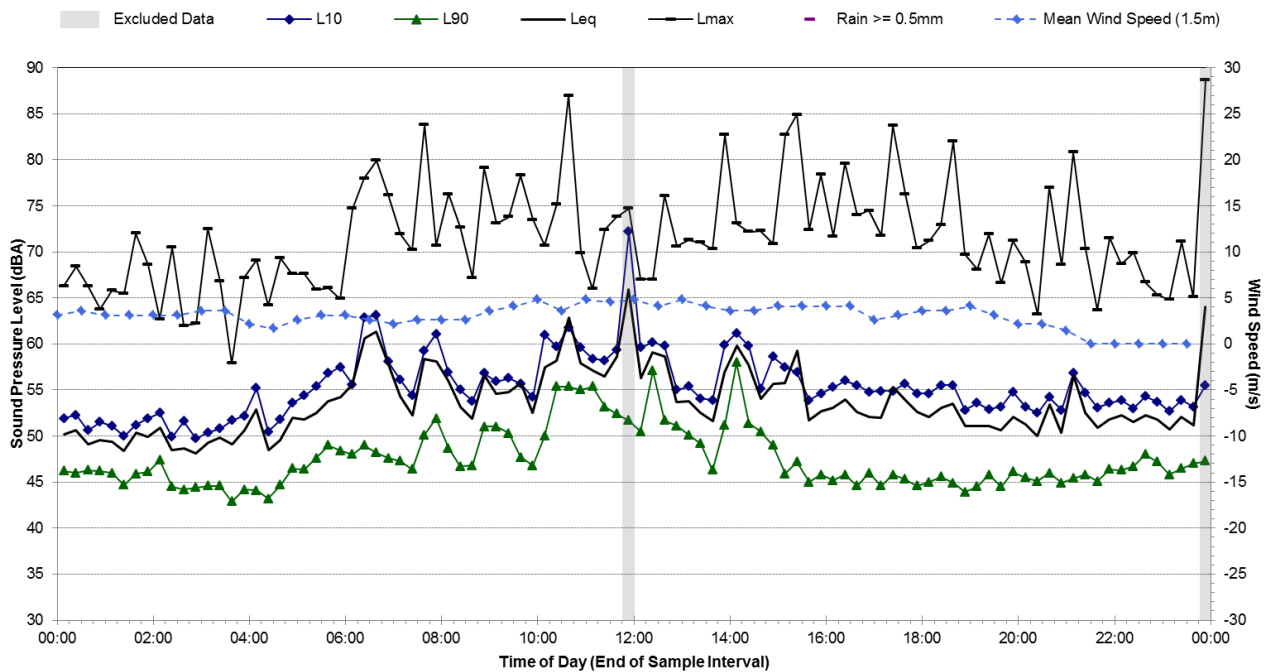
#### Statistical Ambient Noise Levels

ADD12 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD12 - Friday, 23 October 2015



## Appendix ADD12

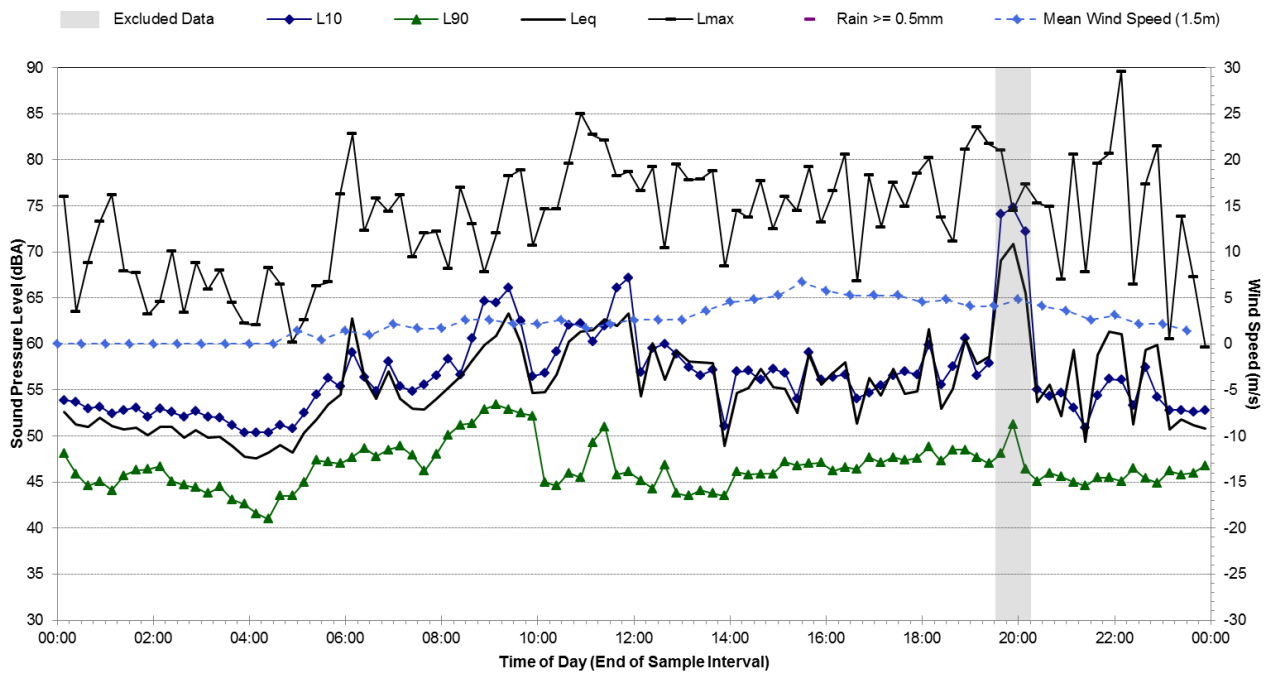
M4 East Additional Noise Logging Summary 2015

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### ADD12 Ambient Noise Monitoring Results

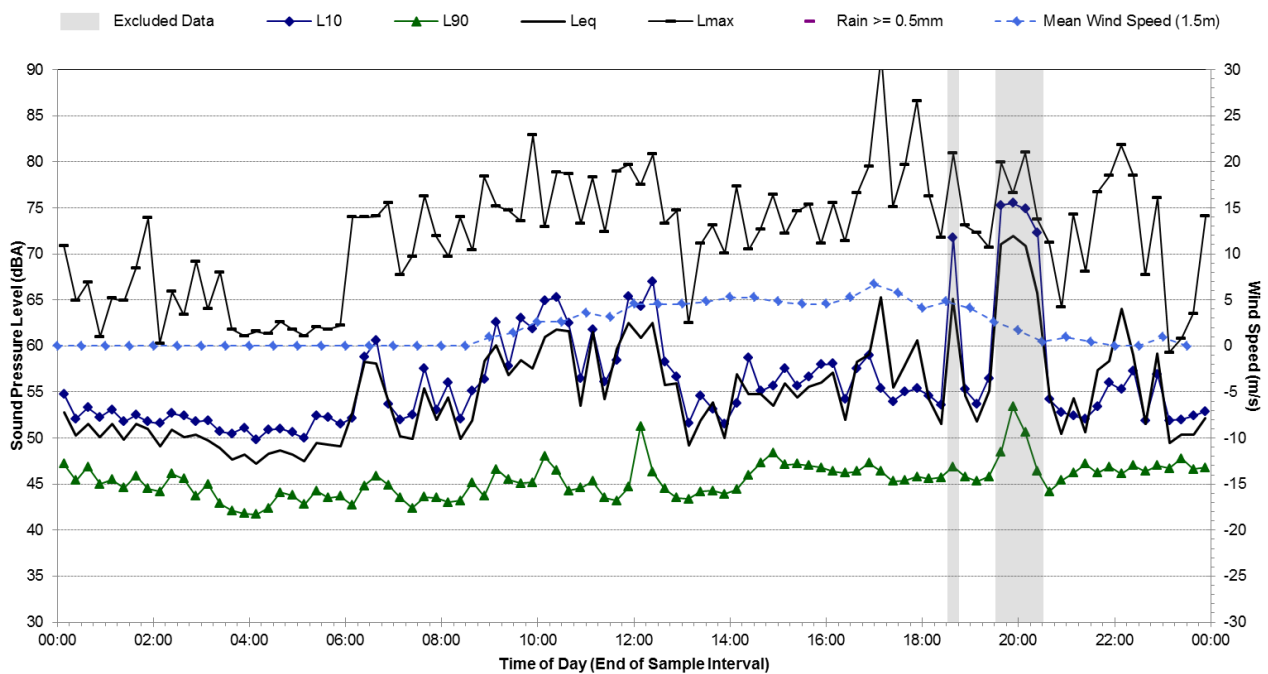
#### Statistical Ambient Noise Levels

ADD12 - Saturday, 24 October 2015



#### Statistical Ambient Noise Levels

ADD12 - Sunday, 25 October 2015



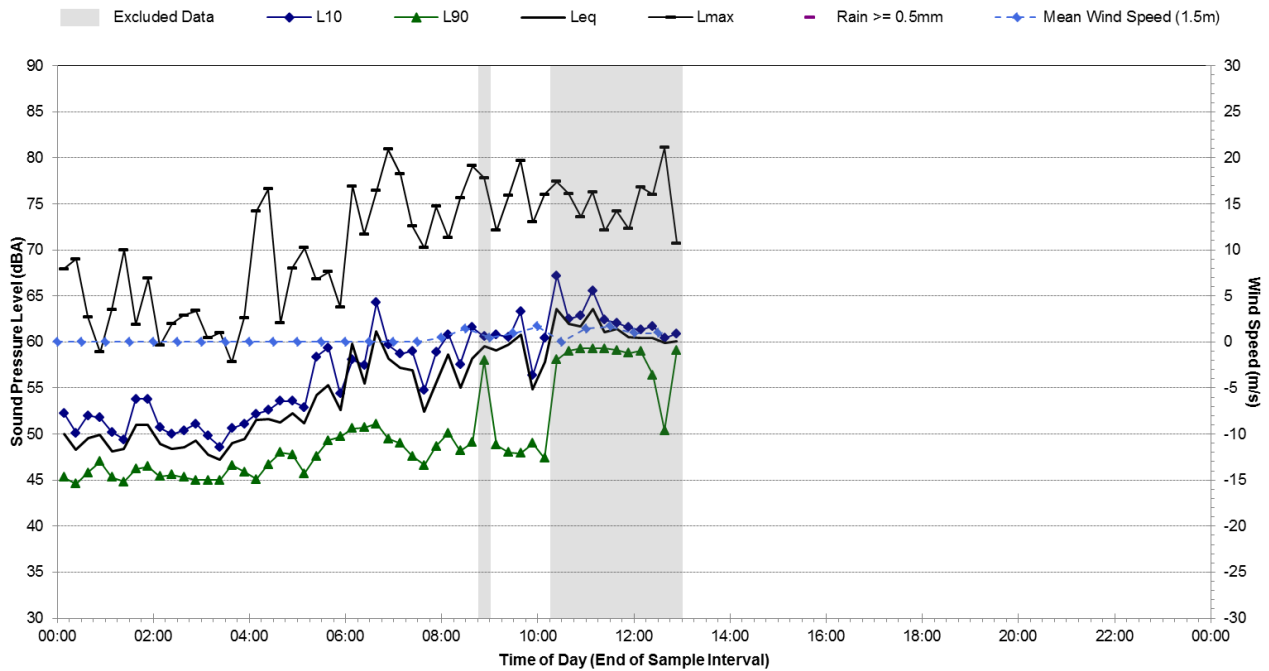
## Appendix ADD12

M4 East Additional Noise Logging Summary 2015  
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### ADD12 Ambient Noise Monitoring Results

#### Statistical Ambient Noise Levels

ADD12 - Monday, 26 October 2015



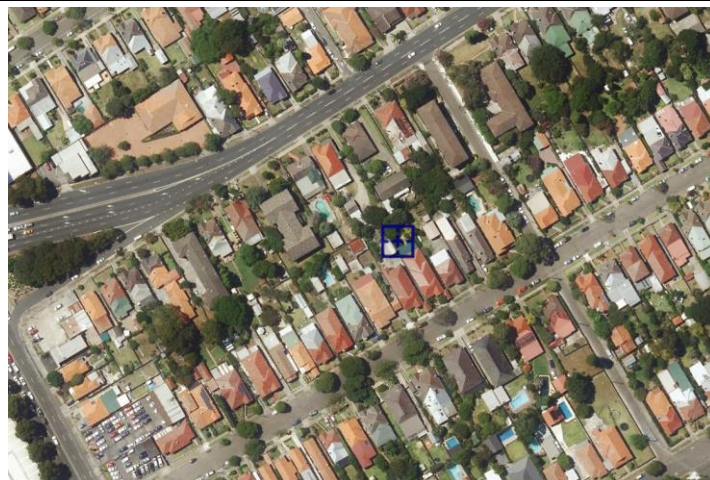
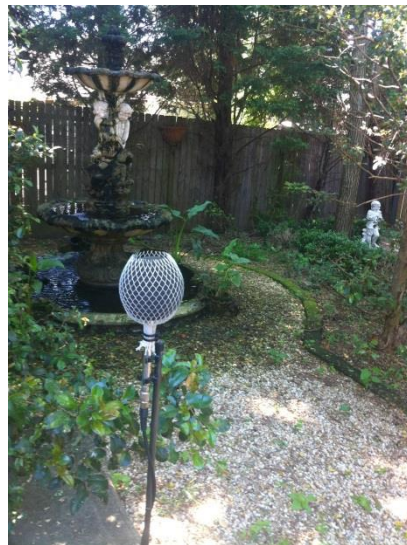
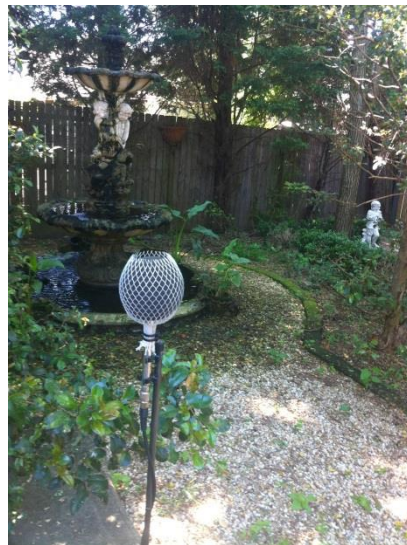
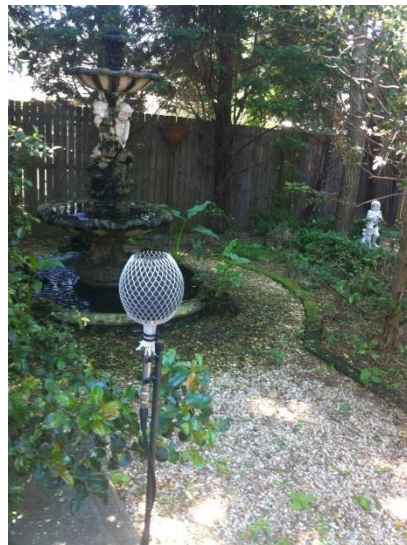


## Appendix ADD13

M4 East Additional Noise Logging Summary 2015

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### ADD13 Ambient Noise Monitoring Results

| Noise Monitoring Location: ADD13                                                                                                                                                                                                                                   |                      | Map of Noise Monitoring Location                                                     |    |                                    |                     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------|----|------------------------------------|---------------------|-------|
| Noise Monitoring Address: 26 Walker Ave, Haberfield                                                                                                                                                                                                                |                      |   |    |                                    |                     |       |
| Logger Device Type: Svantek 957<br>Logger Serial No: 27579                                                                                                                                                                                                         |                      |                                                                                      |    |                                    |                     |       |
| Ambient noise logger deployed immediately outside residential address 26 Walker Ave, Harberfield. Logger located in rear yard on northern side of property.                                                                                                        |                      |                                                                                      |    |                                    |                     |       |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by distant road traffic noise from Wattle St during the daytime. Constant tyre-pavement noise from light-vehicle traffic on the M4 can be heard at this location. |                      |                                                                                      |    |                                    |                     |       |
| Recorded Noise Levels (LAmax):<br>Distant road traffic Wattle St: 48-58 dBA, Air traffic: 59-71 dBA, Birds: 48-68 dBA                                                                                                                                              |                      |  |    |                                    |                     |       |
| Ambient Noise Logging Results – INP Defined Time Periods                                                                                                                                                                                                           |                      |                                                                                      |    | Photo of Noise Monitoring Location |                     |       |
| Monitoring Period                                                                                                                                                                                                                                                  | Noise Level (dBA)    |                                                                                      |    |                                    |                     |       |
|                                                                                                                                                                                                                                                                    | RBL                  |                                                                                      |    | LAeq                               | L10                 | L1    |
| Daytime                                                                                                                                                                                                                                                            | 41                   | 55                                                                                   | 54 | 64                                 |                     |       |
| Evening                                                                                                                                                                                                                                                            | 43                   | 54                                                                                   | 52 | 62                                 |                     |       |
| Night-time                                                                                                                                                                                                                                                         | 37                   | 51                                                                                   | 47 | 52                                 |                     |       |
| 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                                                                                                                                                                                                                                               | 6                    |                                                                                      |    | 4                                  | N/A (7 Day Average) |       |
| Daytime (7am-10pm)                                                                                                                                                                                                                                                 | 55                   |                                                                                      |    | 55                                 | 55                  |       |
| Night-time (10pm-7am)                                                                                                                                                                                                                                              | 50                   | 51                                                                                   | 51 |                                    |                     |       |
| Attended Noise Measurement Results                                                                                                                                                                                                                                 |                      |  |    |                                    |                     |       |
| Date                                                                                                                                                                                                                                                               | Start Time           |                                                                                      |    | Measured Noise Level (dBA)         |                     |       |
|                                                                                                                                                                                                                                                                    |                      |                                                                                      |    | LA90                               | LAeq                | LAmax |
| 16/10/2015                                                                                                                                                                                                                                                         | 14:08                |                                                                                      |    | 42                                 | 49                  | 71    |



## Appendix ADD13

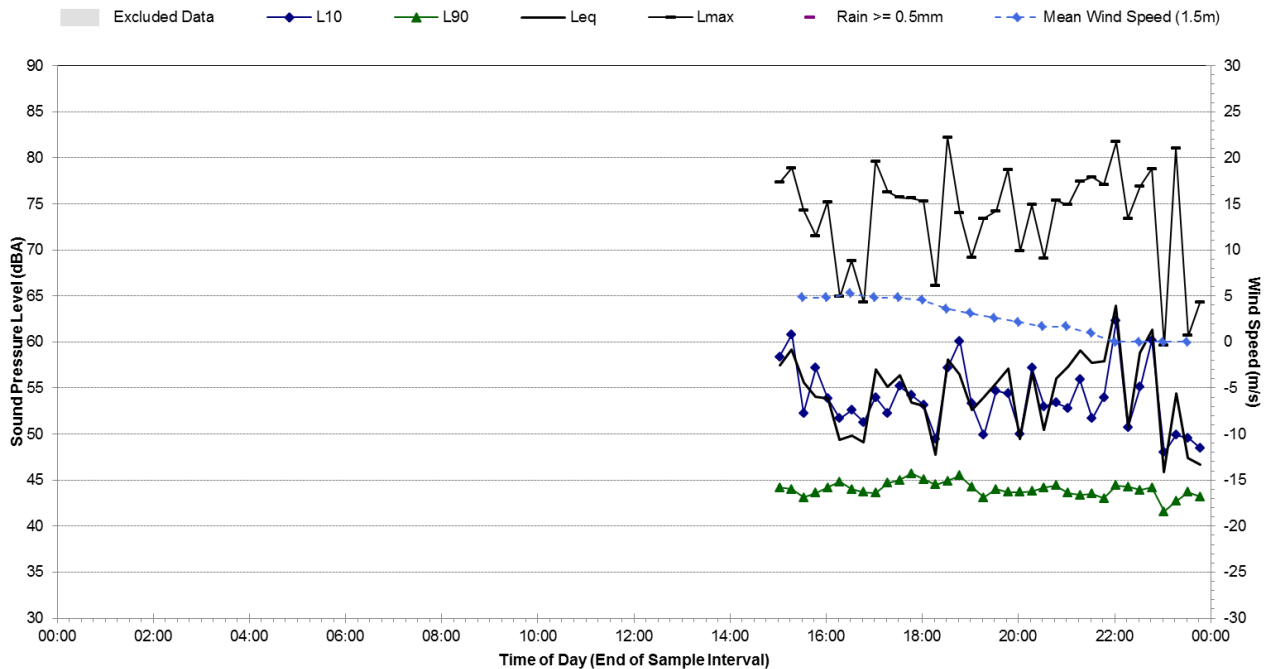
M4 East Additional Noise Logging Summary 2015

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### ADD13 Ambient Noise Monitoring Results

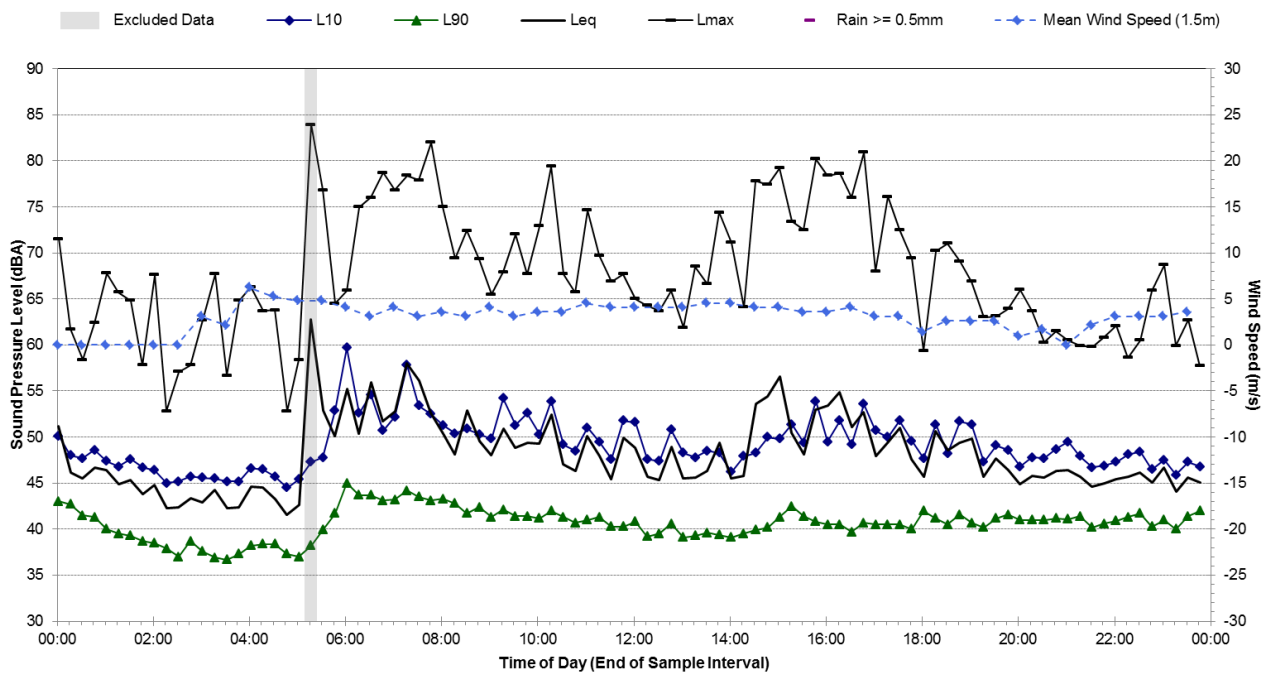
#### Statistical Ambient Noise Levels

ADD13 - Friday, 16 October 2015



#### Statistical Ambient Noise Levels

ADD13 - Saturday, 17 October 2015



## Appendix ADD13

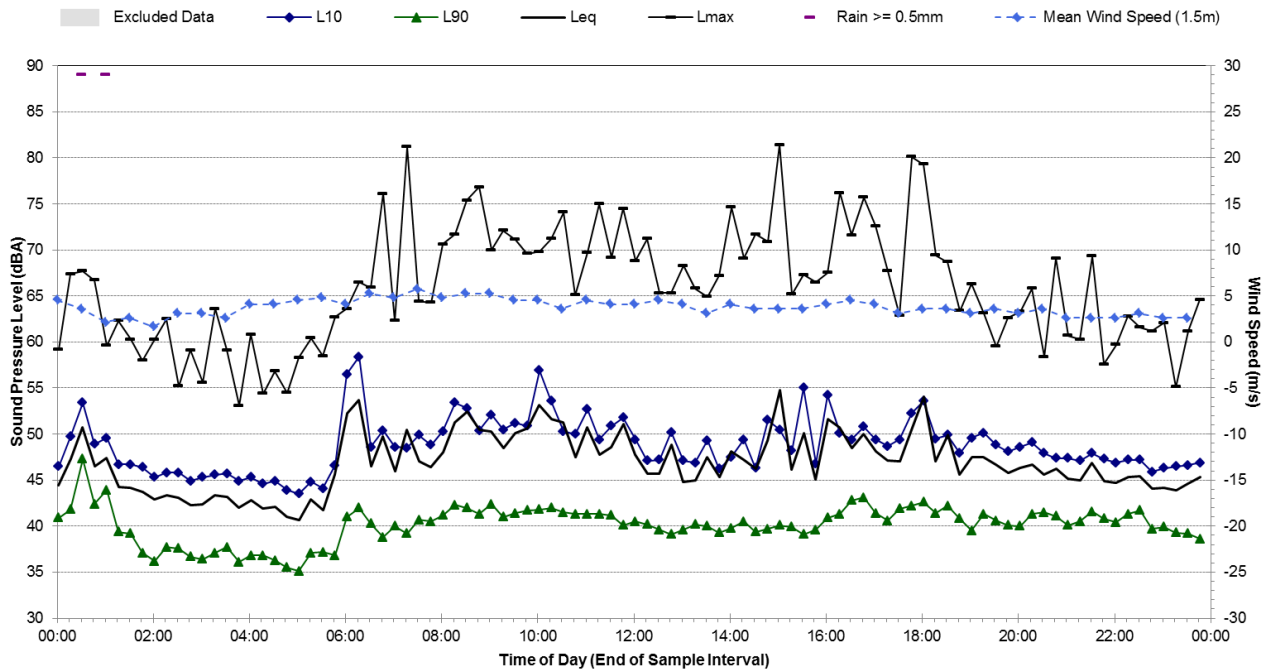
M4 East Additional Noise Logging Summary 2015

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### ADD13 Ambient Noise Monitoring Results

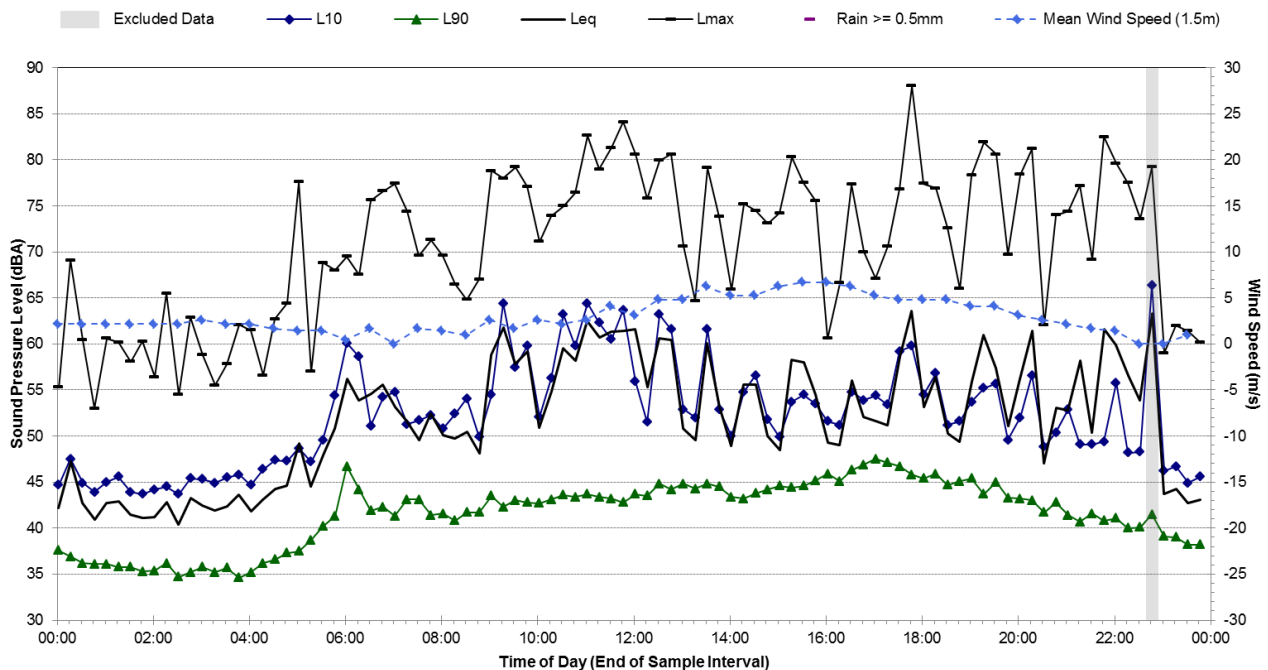
#### Statistical Ambient Noise Levels

ADD13 - Sunday, 18 October 2015



#### Statistical Ambient Noise Levels

ADD13 - Monday, 19 October 2015



## Appendix ADD13

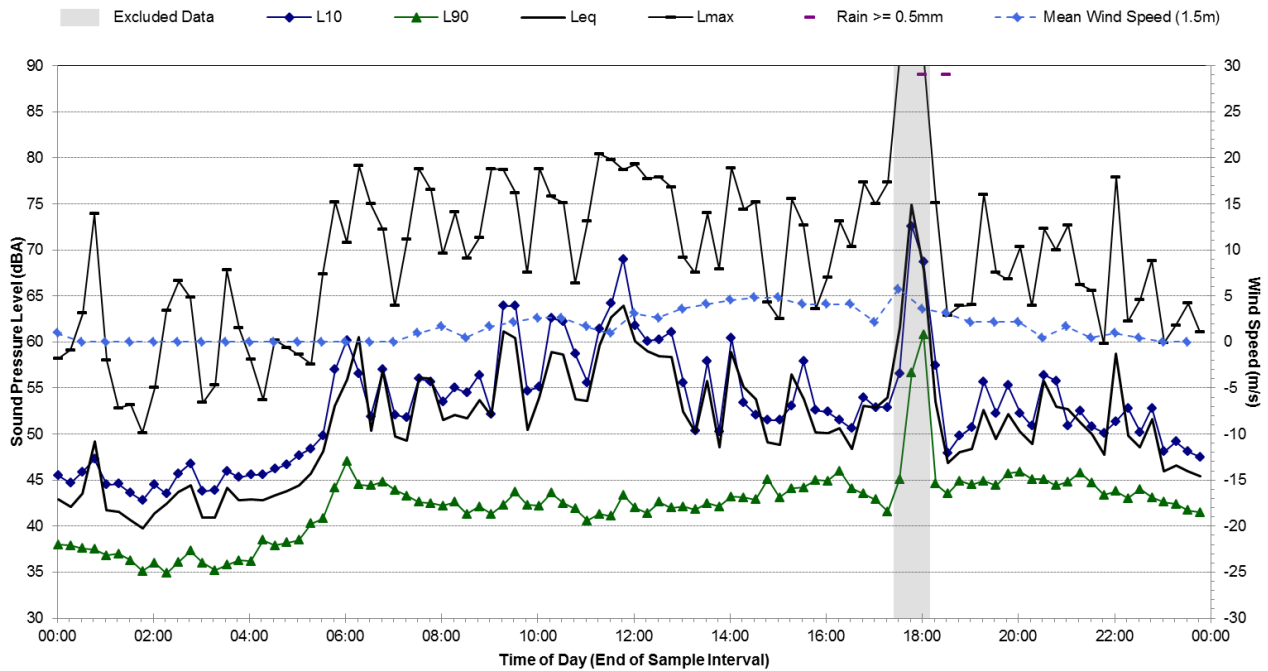
M4 East Additional Noise Logging Summary 2015

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### ADD13 Ambient Noise Monitoring Results

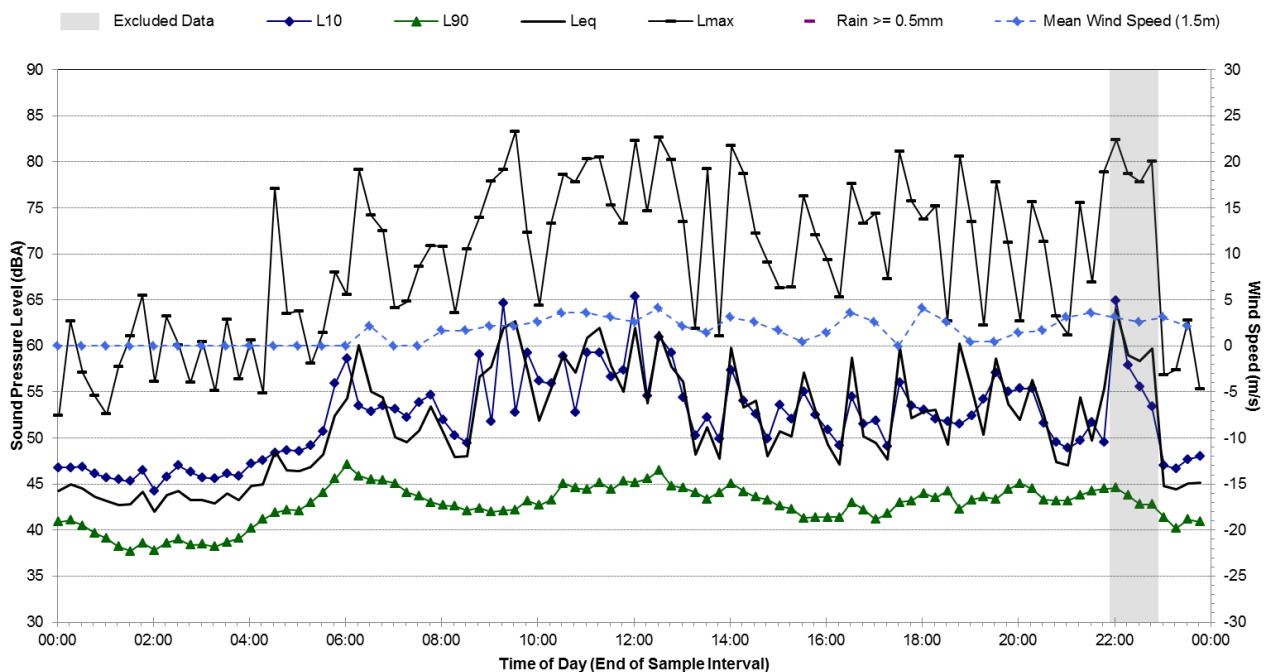
#### Statistical Ambient Noise Levels

ADD13 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD13 - Wednesday, 21 October 2015



## Appendix ADD13

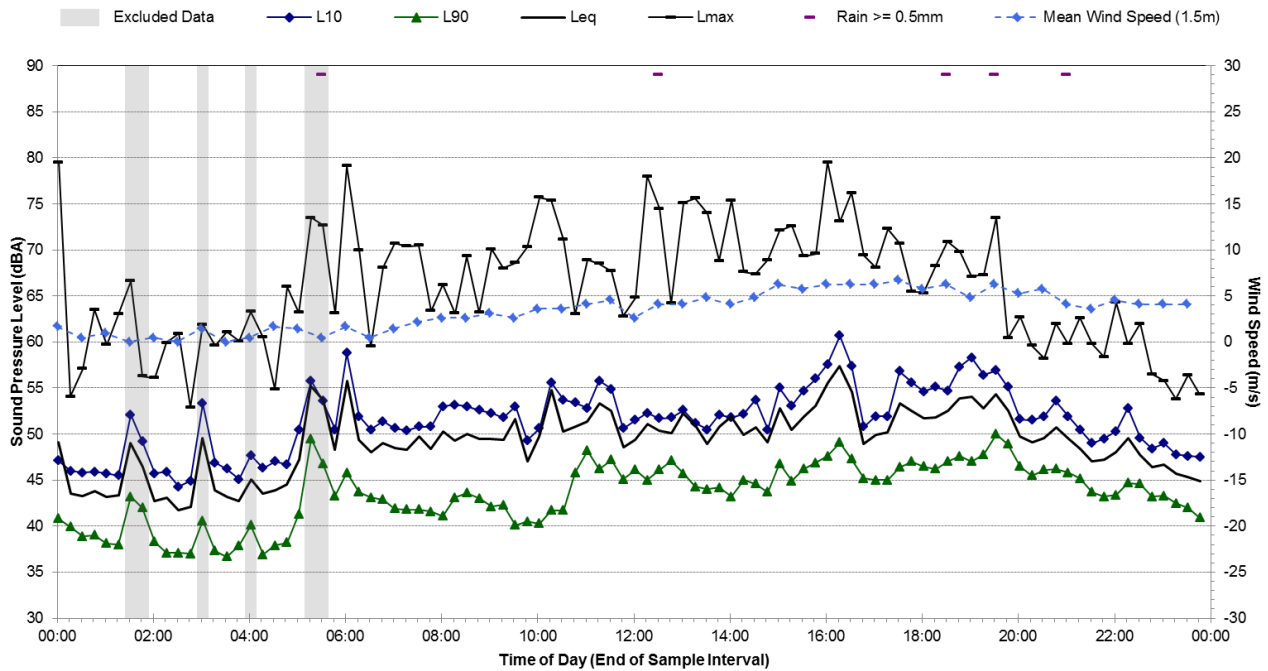
M4 East Additional Noise Logging Summary 2015

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### ADD13 Ambient Noise Monitoring Results

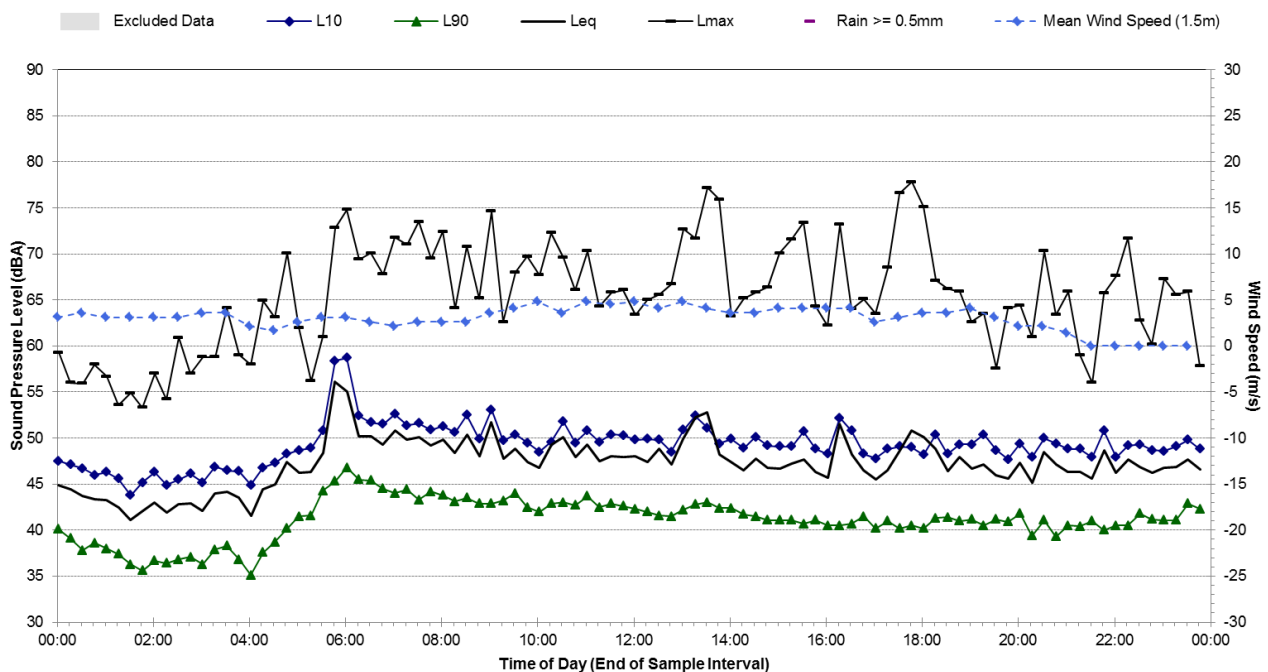
#### Statistical Ambient Noise Levels

ADD13 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD13 - Friday, 23 October 2015



## Appendix ADD13

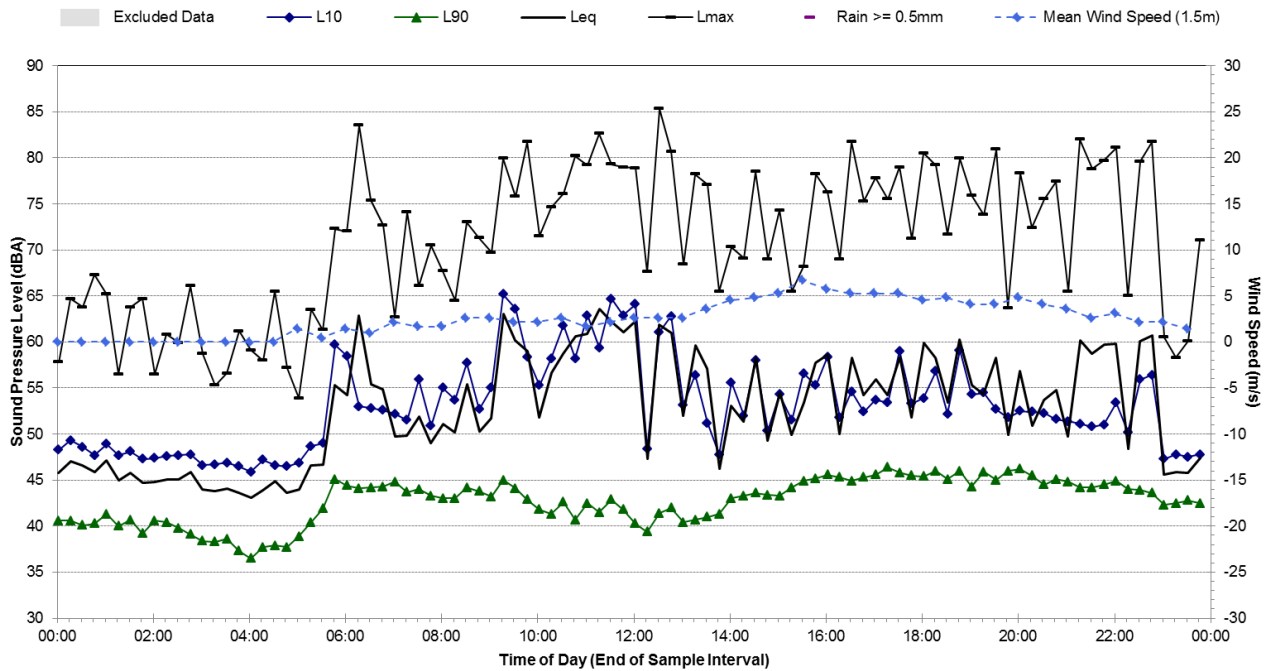
M4 East Additional Noise Logging Summary 2015

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### ADD13 Ambient Noise Monitoring Results

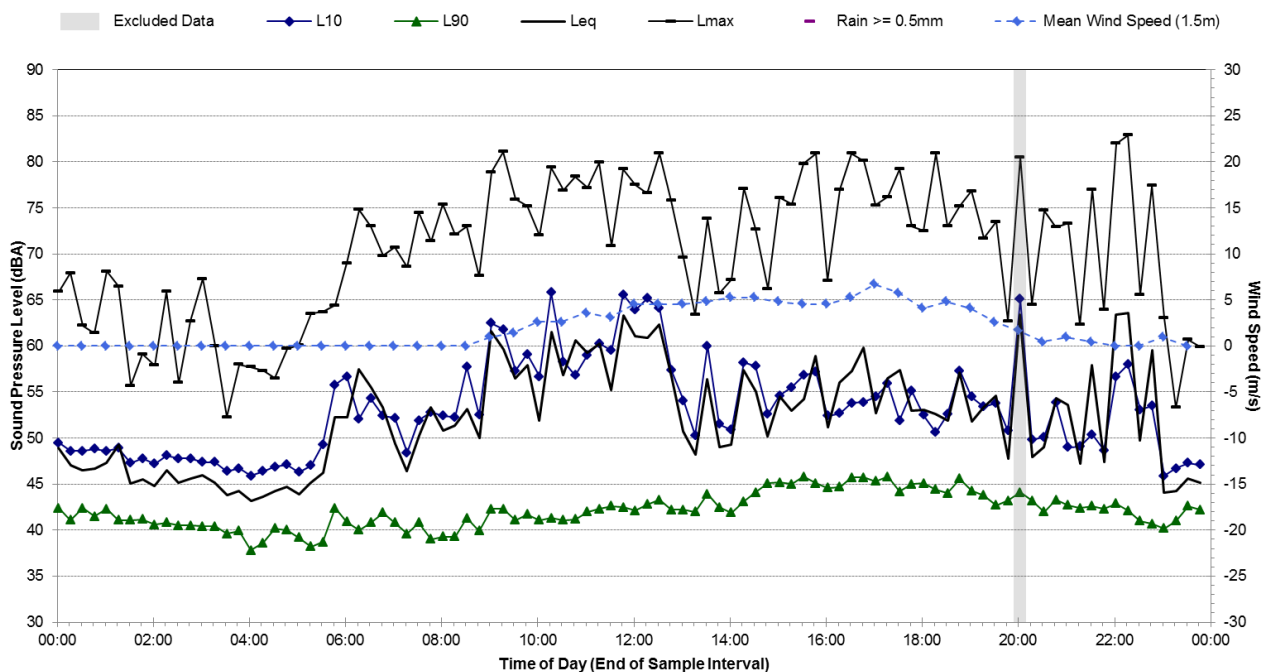
#### Statistical Ambient Noise Levels

ADD13 - Saturday, 24 October 2015



#### Statistical Ambient Noise Levels

ADD13 - Sunday, 25 October 2015



# Appendix ADD13

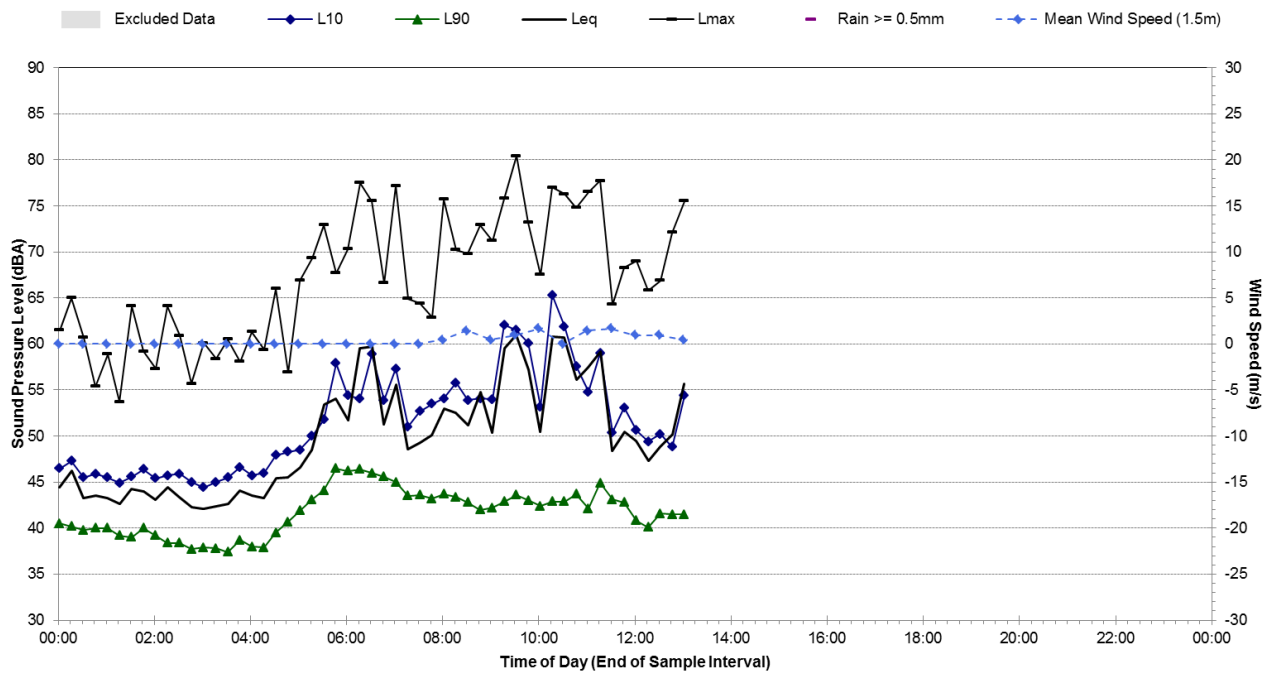
M4 East Additional Noise Logging Summary 2015

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## ADD13 Ambient Noise Monitoring Results

### Statistical Ambient Noise Levels

ADD13 - Monday, 26 October 2015



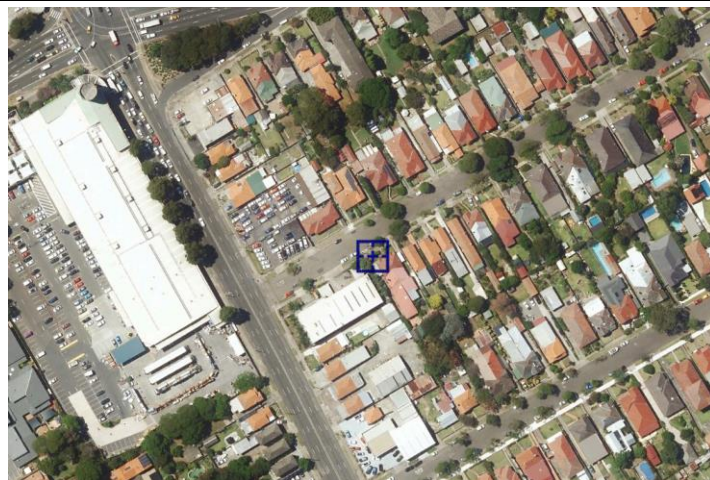


# Appendix ADD14

M4 East Additional Noise Logging Summary 2015

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## ADD14 Ambient Noise Monitoring Results

| Noise Monitoring Location:                                                                                                                                                                                                                                                                                                              |  | ADD14                    |  | Map of Noise Monitoring Location                                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|-------------------------------------------------------------------------------------|--|
| Noise Monitoring Address:                                                                                                                                                                                                                                                                                                               |  | 1 Walker Ave, Haberfield |  |  |  |
| Logger Device Type: Svantek 957                                                                                                                                                                                                                                                                                                         |  |                          |  |                                                                                     |  |
| Logger Serial No: 23293                                                                                                                                                                                                                                                                                                                 |  |                          |  |                                                                                     |  |
| Ambient noise logger deployed immediately outside residential address 1 Walker Ave, Haberfield. Logger located in front yard on northern side of property.                                                                                                                                                                              |  |                          |  |                                                                                     |  |
| Attended noise measurements indicate the ambient noise environment at this location is dominated by road traffic noise from Parramatta Rd and Walker Ave during the daytime. Constant tyre-pavement noise from light-vehicle traffic on Parramatta Rd can be heard at this location. Local traffic passbys on Walker Ave were frequent. |  |                          |  |                                                                                     |  |
| Recorded Noise Levels (LAmax):                                                                                                                                                                                                                                                                                                          |  |                          |  |                                                                                     |  |
| Parramatta Rd road traffic: 44-55 dBA, Walker Ave road traffic: 65-73 dBA, Birds: 63-70 dBA                                                                                                                                                                                                                                             |  |                          |  |                                                                                     |  |

| Ambient Noise Logging Results – INP Defined Time Periods |                      |                            |                     |       |
|----------------------------------------------------------|----------------------|----------------------------|---------------------|-------|
| Monitoring Period                                        | Noise Level (dBA)    |                            |                     |       |
|                                                          | RBL                  | LAeq                       | L10                 | L1    |
| Daytime                                                  | 45                   | 58                         | 60                  | 67    |
| Evening                                                  | 45                   | 57                         | 57                  | 66    |
| Night-time                                               | 39                   | 54                         | 55                  | 62    |
| 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                                     | 6                    | 4                          | N/A (7 Day Average) |       |
| Daytime (7am-10pm)                                       | 58                   | 57                         | 58                  |       |
| Night-time (10pm-7am)                                    | 55                   | 53                         | 54                  |       |
| Attended Noise Measurement Results                       |                      |                            |                     |       |
| Date                                                     | Start Time           | Measured Noise Level (dBA) |                     |       |
|                                                          |                      | LA90                       | LAeq                | LAmaz |
| 16/10/2015                                               | 13:26                | 45                         | 55                  | 73    |

| Photo of Noise Monitoring Location                                                   |  |
|--------------------------------------------------------------------------------------|--|
|  |  |

## Appendix ADD14

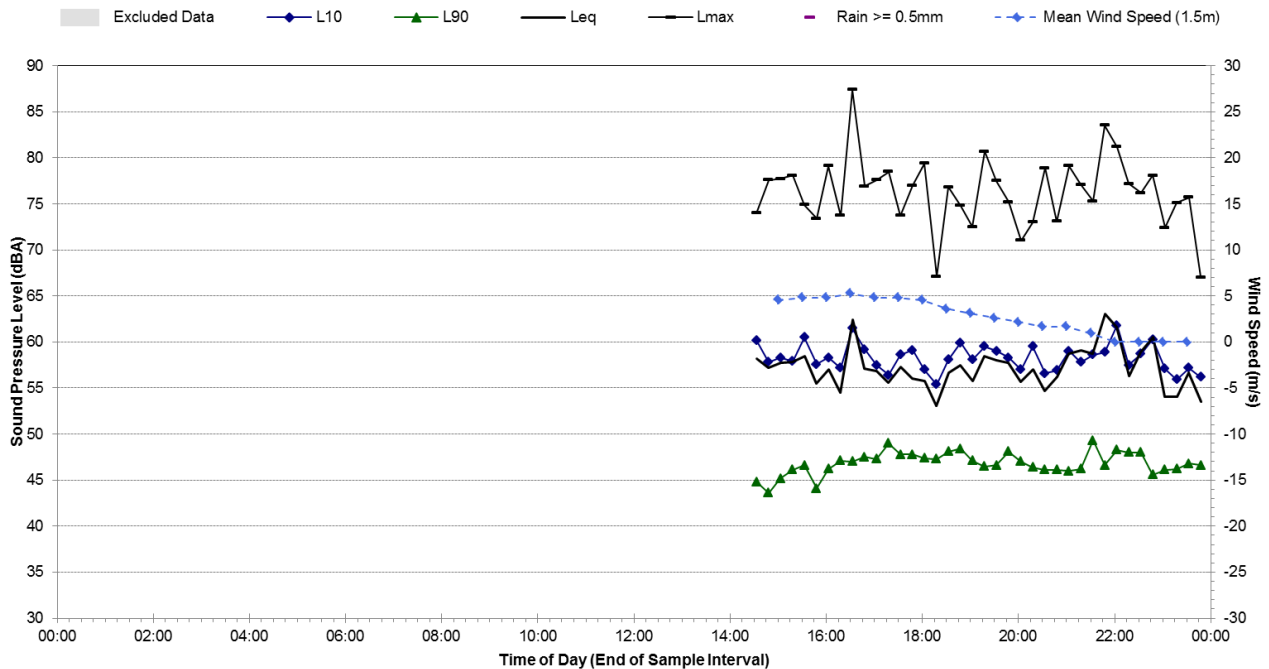
M4 East Additional Noise Logging Summary 2015

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### ADD14 Ambient Noise Monitoring Results

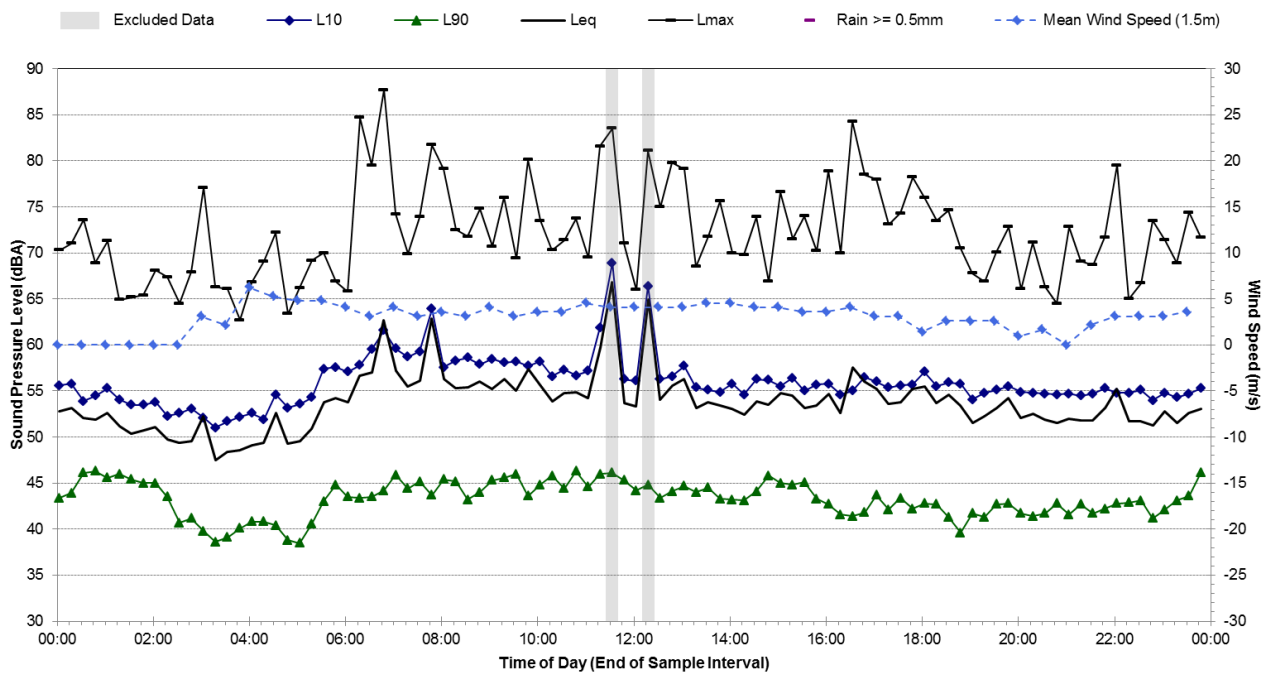
#### Statistical Ambient Noise Levels

ADD14 - Friday, 16 October 2015



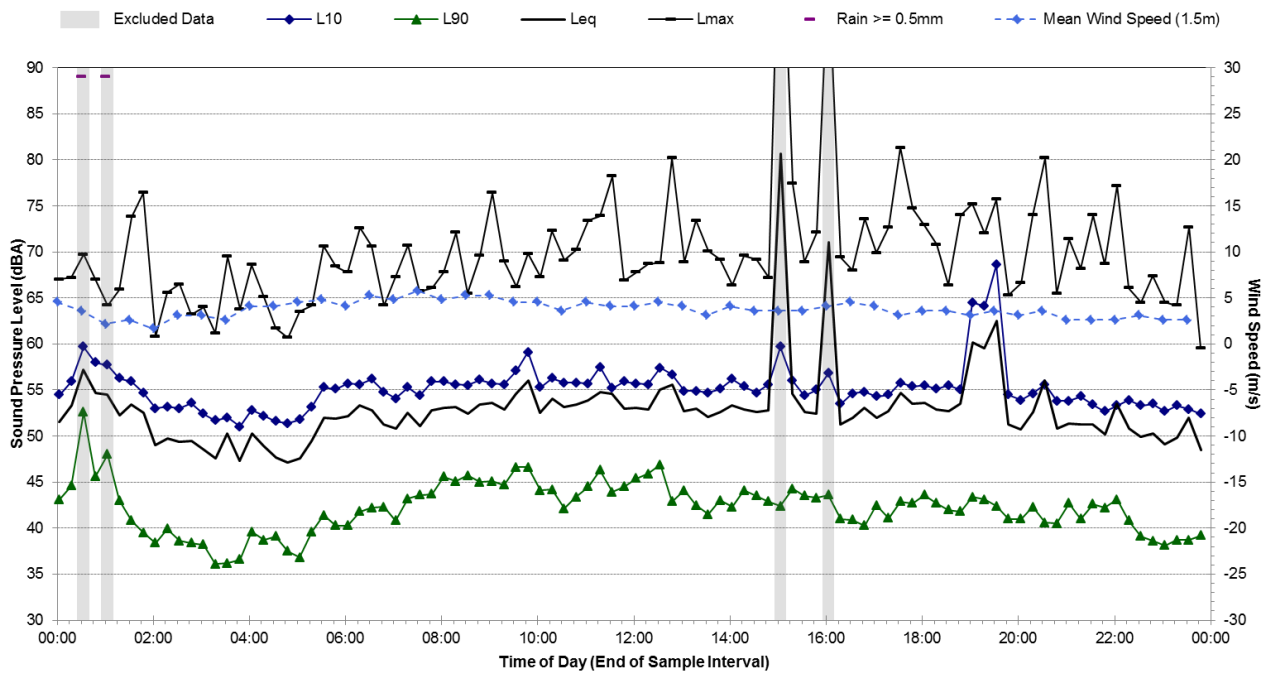
#### Statistical Ambient Noise Levels

ADD14 - Saturday, 17 October 2015



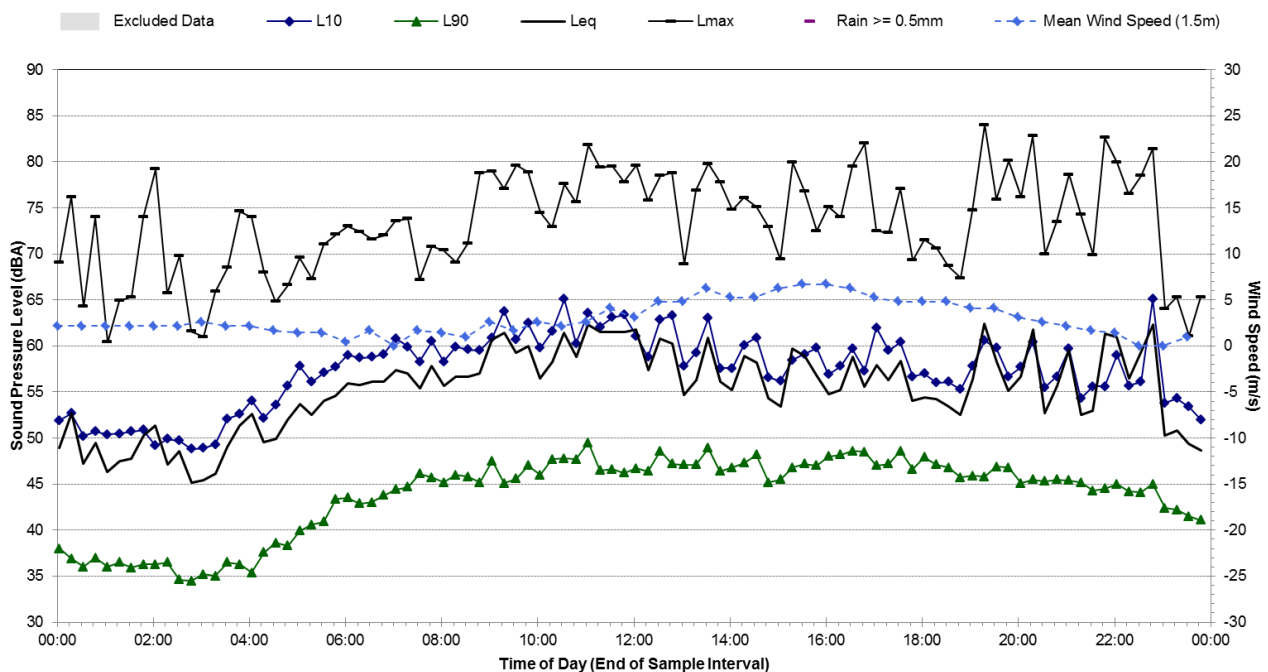
## Statistical Ambient Noise Levels

ADD14 - Sunday, 18 October 2015



## Statistical Ambient Noise Levels

ADD14 - Monday, 19 October 2015



## Appendix ADD14

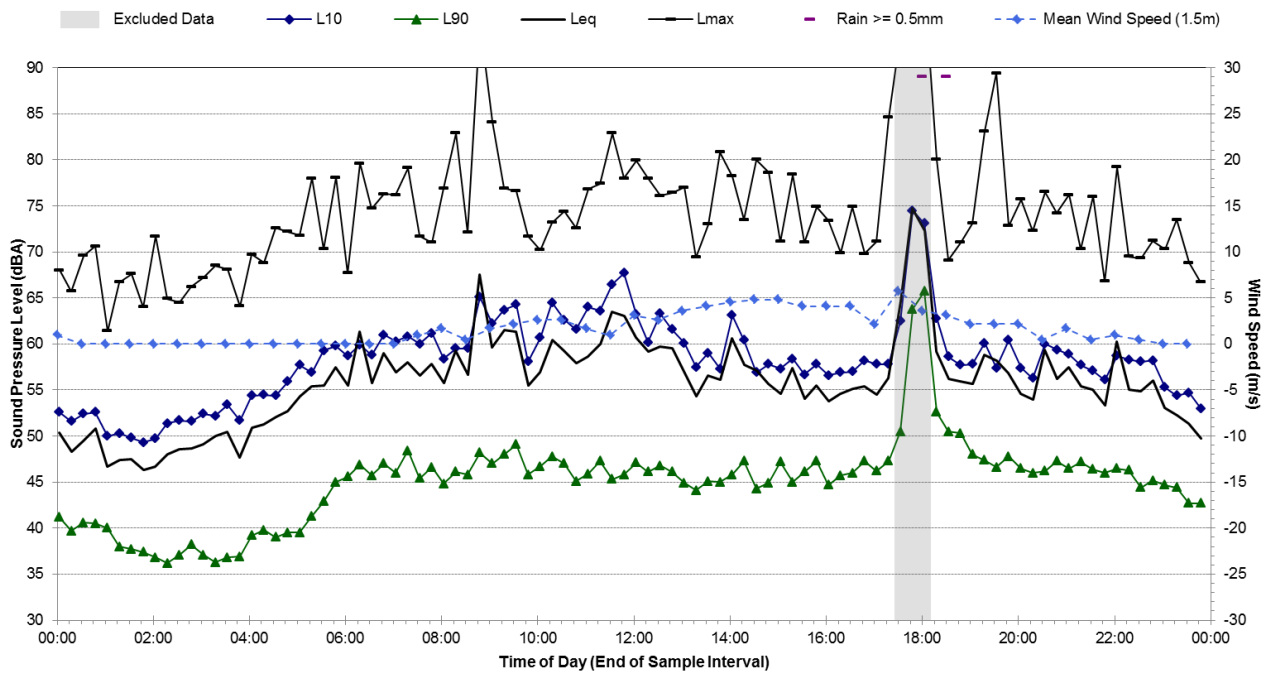
M4 East Additional Noise Logging Summary 2015

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### ADD14 Ambient Noise Monitoring Results

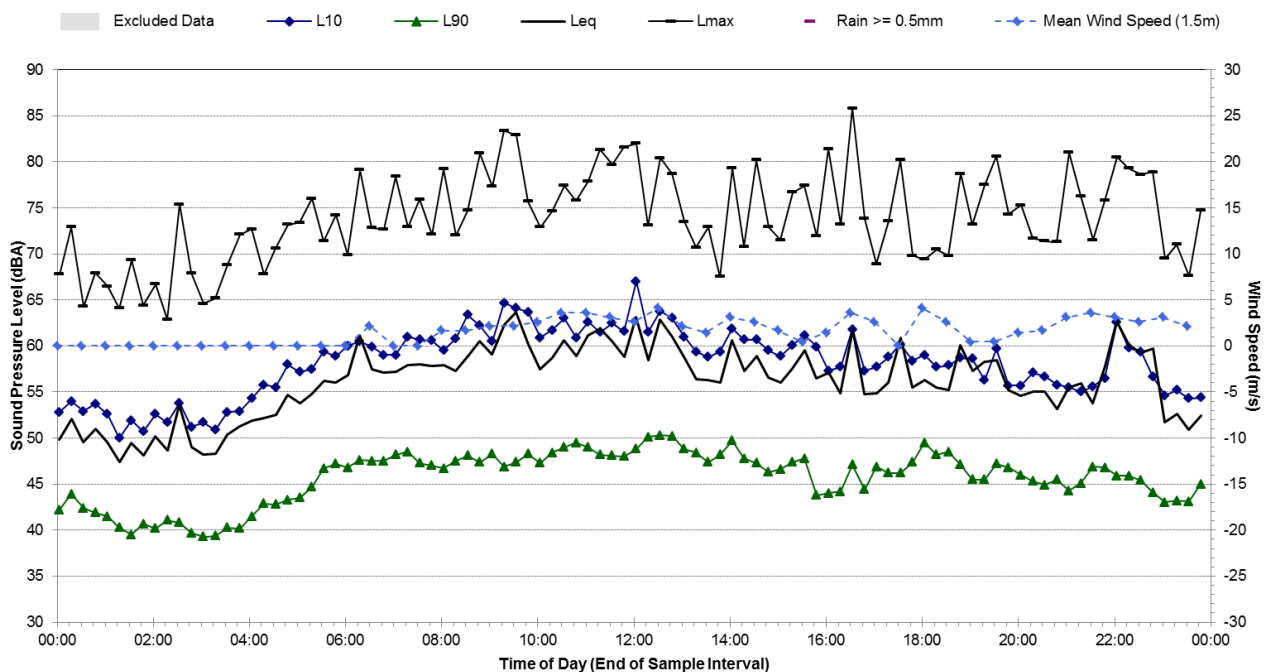
#### Statistical Ambient Noise Levels

ADD14 - Tuesday, 20 October 2015



#### Statistical Ambient Noise Levels

ADD14 - Wednesday, 21 October 2015



## Appendix ADD14

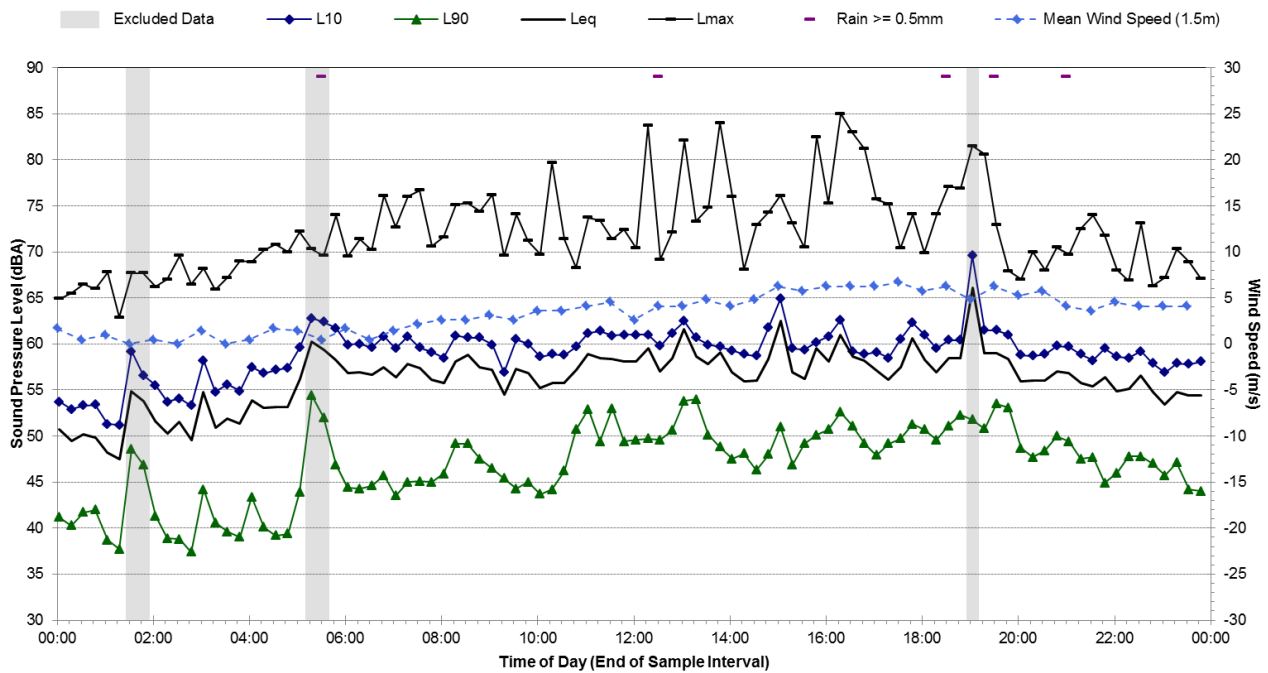
M4 East Additional Noise Logging Summary 2015

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### ADD14 Ambient Noise Monitoring Results

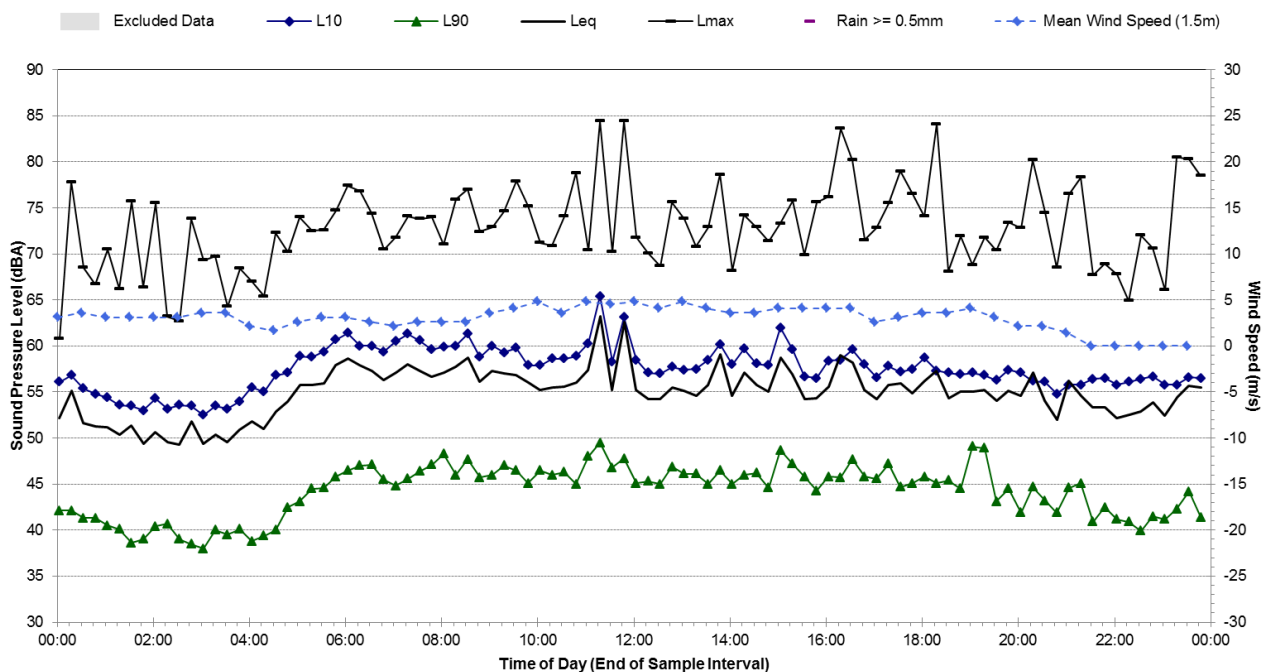
#### Statistical Ambient Noise Levels

ADD14 - Thursday, 22 October 2015



#### Statistical Ambient Noise Levels

ADD14 - Friday, 23 October 2015

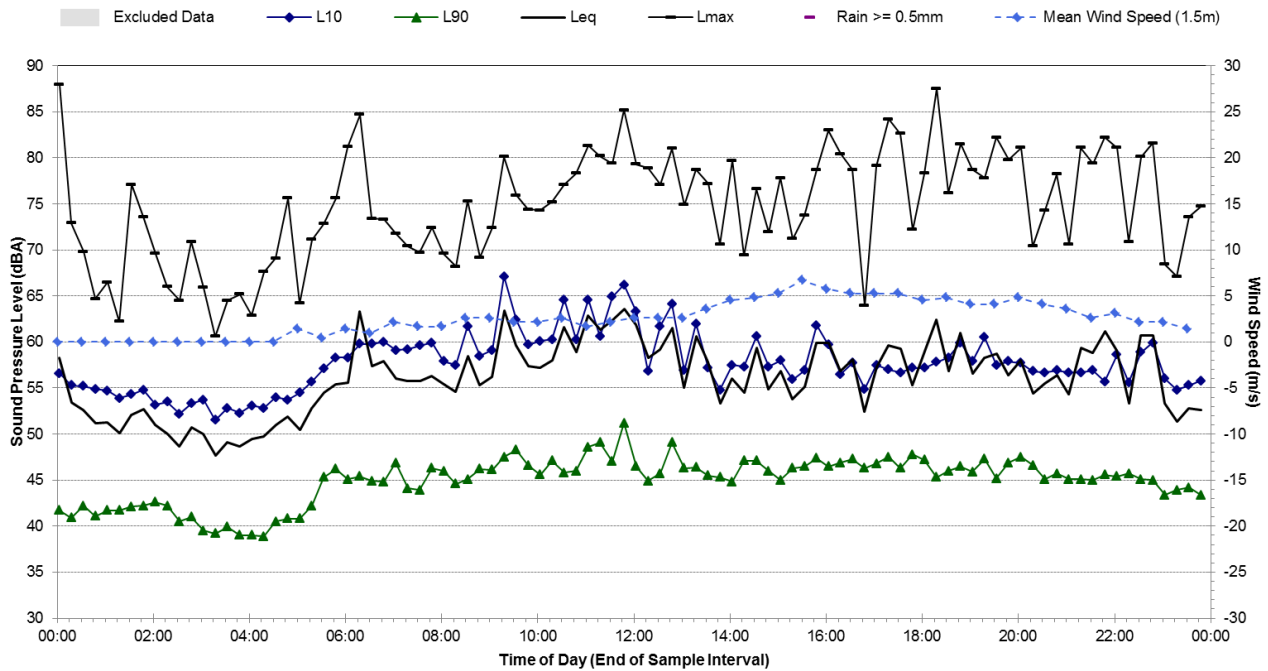




## ADD14 Ambient Noise Monitoring Results

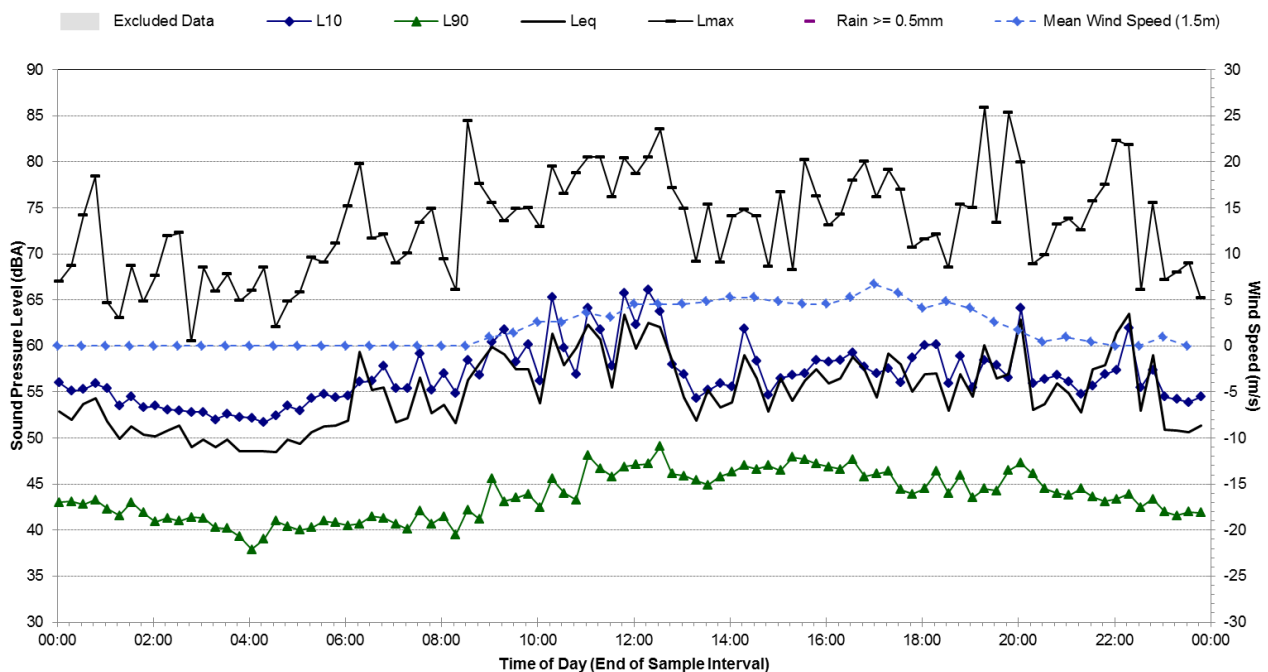
### Statistical Ambient Noise Levels

ADD14 - Saturday, 24 October 2015



### Statistical Ambient Noise Levels

ADD14 - Sunday, 25 October 2015





## Statistical Ambient Noise Levels ADD14 - Monday, 26 October 2015

