

# Appendix F Environmental Monitoring Data for Air, Noise and Water Quality

Appendix F  
Air Quality Monitoring Results and their Graphical Presentation

24-Hour TSP Monitoring Result at Station: SR77

| Sampling Date | Weather Condition | Paper No. | Wt. of paper (g) |           |             | Elapse Time |         |               | Flow Rate (CFM) |       |               | Flow Rate (m <sup>3</sup> /min) |       |               | Total Volume (m <sup>3</sup> ) | TSP Concentration (µg/m <sup>3</sup> ) | Action Level (µg/m <sup>3</sup> ) | Limit Level (µg/m <sup>3</sup> ) | Wind speed m/s | Wind direction |
|---------------|-------------------|-----------|------------------|-----------|-------------|-------------|---------|---------------|-----------------|-------|---------------|---------------------------------|-------|---------------|--------------------------------|--|-----------------------------------|----------------------------------|----------------|----------------|
|               |                   |           | Initial Wt.      | Final Wt. | Wt. of Dust | Initial     | Final   | Sampling Hour | Initial         | Final | Avg Flow Rate | Initial                         | Final | Avg Flow Rate |                                |  |                                   |                                  |                |                |
| 6-Nov-17      | Fine              | CC106     | 2.8433           | 3.0634    | 0.2201      | 7333.67     | 7357.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 105.8                                  | 170.3                             | 260.0                            | <5             | N              |
| 10-Nov-17     | Sunny             | CC108     | 2.8639           | 3.0845    | 0.2206      | 7360.67     | 7384.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 106.1                                  | 170.3                             | 260.0                            | <5             | N              |
| 16-Nov-17     | Cloudy            | CC110     | 2.8717           | 3.0131    | 0.1414      | 7387.67     | 7411.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 68.0                                   | 170.3                             | 260.0                            | <5             | N              |
| 22-Nov-17     | Sunny             | CC112     | 2.8452           | 3.1269    | 0.2817      | 7414.67     | 7438.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 135.5                                  | 170.3                             | 260.0                            | <5             | N              |
| 28-Nov-17     | Cloudy            | CC114     | 2.8671           | 3.0651    | 0.1980      | 7441.67     | 7465.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 95.2                                   | 170.3                             | 260.0                            | <5             | N              |
| 4-Dec-17      | Sunny             | CC116     | 2.8511           | 3.0573    | 0.2062      | 7468.67     | 7492.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 99.2                                   | 170.3                             | 260.0                            | <5             | N              |
| 8-Dec-17      | Fine              | CC118     | 2.8344           | 3.2560    | 0.4216      | 7495.67     | 7519.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 202.7                                  | 170.3                             | 260.0                            | <5             | N              |
| 14-Dec-17     | Fine              | CC120     | 2.8357           | 3.0159    | 0.1802      | 7522.67     | 7546.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 86.7                                   | 170.3                             | 260.0                            | <5             | N              |
| 19-Dec-17     | Sunny             | CC122     | 2.8565           | 3.1476    | 0.2911      | 7549.67     | 7573.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 140.0                                  | 170.3                             | 260.0                            | <5             | N              |
| 22-Dec-17     | Fine              | CC124     | 2.8523           | 3.0776    | 0.2253      | 7576.67     | 7600.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 108.3                                  | 170.3                             | 260.0                            | <6             | N              |
| 28-Dec-17     | Cloudy            | CC126     | 2.8578           | 3.0418    | 0.1840      | 7603.67     | 7627.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 88.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 3-Jan-18      | Fine              | CC128     | 2.8619           | 3.0643    | 0.2024      | 7630.67     | 7654.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 97.3                                   | 170.3                             | 260.0                            | <5             | N              |
| 9-Jan-18      | Cloudy            | CC130     | 2.8888           | 3.0028    | 0.1140      | 7657.67     | 7681.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 54.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 15-Jan-18     | Sunny             | C484      | 2.8237           | 2.9882    | 0.1645      | 7684.67     | 7708.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 79.1                                   | 170.3                             | 260.0                            | <5             | N              |
| 19-Jan-18     | Fine              | C486      | 2.8015           | 2.9612    | 0.1597      | 7711.67     | 7735.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 76.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 25-Jan-18     | Fine              | C488      | 2.8839           | 2.9784    | 0.0945      | 7738.67     | 7762.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 45.4                                   | 170.3                             | 260.0                            | <6             | N              |
| 31-Jan-18     | Cloudy            | C490      | 2.8736           | 2.9470    | 0.0734      | 7765.67     | 7789.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 35.3                                   | 170.3                             | 260.0                            | <5             | N              |
| 6-Feb-18      | Sunny             | C492      | 2.8634           | 2.9816    | 0.1182      | 7792.67     | 7816.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 56.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 12-Feb-18     | Sunny             | C494      | 2.8701           | 2.9297    | 0.0596      | 7819.67     | 7843.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 28.7                                   | 170.3                             | 260.0                            | <5             | N              |
| 15-Feb-18     | Fine              | C496      | 2.7852           | 2.8103    | 0.0251      | 7846.67     | 7870.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 12.1                                   | 170.3                             | 260.0                            | <5             | N              |
| 21-Feb-18     | Cloudy            | C498      | 2.8097           | 2.8940    | 0.0843      | 7873.67     | 7897.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 40.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 27-Feb-18     | Sunny             | C500      | 2.8026           | 2.9306    | 0.1280      | 7901.67     | 7925.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 61.6                                   | 170.3                             | 260.0                            | <6             | N              |
| 5-Mar-18      | Sunny             | C502      | 2.8215           | 3.0035    | 0.1820      | 7928.67     | 7952.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 87.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 9-Mar-18      | Sunny             | C504      | 2.8085           | 2.9468    | 0.1383      | 7955.67     | 7979.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 66.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 15-Mar-18     | Cloudy            | C506      | 2.8086           | 2.9495    | 0.1409      | 7982.67     | 8006.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 67.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 21-Mar-18     | Sunny             | C508      | 2.8157           | 2.9796    | 0.1639      | 8009.67     | 8033.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 78.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 26-Mar-18     | Cloudy            | C510      | 2.8036           | 3.0009    | 0.1973      | 8036.67     | 8060.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 94.9                                   | 170.3                             | 260.0                            | <5             | N              |
| 29-Mar-18     | Sunny             | C512      | 2.8105           | 2.9528    | 0.1423      | 8063.67     | 8087.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 68.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 4-Apr-18      | Fine              | C116      | 2.7865           | 2.9884    | 0.2019      | 8090.67     | 8114.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 97.1                                   | 170.3                             | 260.0                            | <5             | N              |
| 10-Apr-18     | Fine              | C118      | 2.8056           | 2.9531    | 0.1475      | 8117.67     | 8141.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 70.9                                   | 170.3                             | 260.0                            | <5             | N              |
| 16-Apr-18     | Cloudy            | C120      | 2.8095           | 2.9167    | 0.1072      | 8144.67     | 8168.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 51.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 20-Apr-18     | Fine              | C122      | 2.8115           | 2.9723    | 0.1608      | 8171.67     | 8195.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 77.3                                   | 170.3                             | 260.0                            | <5             | N              |
| 26-Apr-18     | Cloudy            | C124      | 2.8095           | 2.9808    | 0.1713      | 8198.67     | 8222.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 82.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 2-May-18      | Sunny             | C126      | 2.8201           | 2.9809    | 0.1608      | 8225.67     | 8249.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 77.3                                   | 170.3                             | 260.0                            | <5             | N              |
| 8-May-18      | Cloudy            | C128      | 2.8102           | 2.9076    | 0.0974      | 8252.67     | 8276.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 46.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 14-May-18     | Sunny             | C130      | 2.7900           | 2.9331    | 0.1431      | 8279.67     | 8303.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 68.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 18-May-18     | Sunny             | C132      | 2.8176           | 2.9269    | 0.1093      | 8307.67     | 8331.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 52.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 24-May-18     | Sunny             | C134      | 2.8369           | 2.9340    | 0.0971      | 8334.67     | 8358.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 46.6                                   | 170.3                             | 260.0                            | <5             | N              |
| 30-May-18     | Sunny             | C136      | 2.8177           | 2.9233    | 0.1056      | 8361.67     | 8385.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 50.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 5-Jun-18      | Rainy             | C138      | 2.8060           | 2.8453    | 0.0393      | 8388.67     | 8412.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 18.9                                   | 170.3                             | 260.0                            | <5             | N              |
| 11-Jun-18     | Sunny             | C140      | 2.8223           | 2.9598    | 0.1375      | 8415.67     | 8439.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 66.1                                   | 170.3                             | 260.0                            | <5             | N              |
| 15-Jun-18     | Fine              | C142      | 2.8141           | 2.9231    | 0.1090      | 8442.67     | 8466.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 52.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 21-Jun-18     | Fine              | C144      | 2.8217           | 2.9092    | 0.0875      | 8469.67     | 8493.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 42.1                                   | 170.3                             | 260.0                            | <5             | N              |
| 27-Jun-18     | Fine              | C146      | 2.8174           | 2.9411    | 0.1237      | 8496.67     | 8520.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 59.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 3-Jul-18      | Rainy             | C148      | 2.8176           | 2.9234    | 0.1058      | 8523.67     | 8547.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 50.9                                   | 170.3                             | 260.0                            | <5             | N              |
| 9-Jul-18      | Fine              | C150      | 2.8152           | 2.9337    | 0.1185      | 8550.67     | 8574.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 57.0                                   | 170.3                             | 260.0                            | <5             | N              |
| 13-Jul-18     | Rainy             | C152      | 2.8085           | 2.8518    | 0.0433      | 8577.67     | 8601.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 20.8                                   | 170.3                             | 260.0                            | <5             | N              |

Appendix F  
Air Quality Monitoring Results and their Graphical Presentation

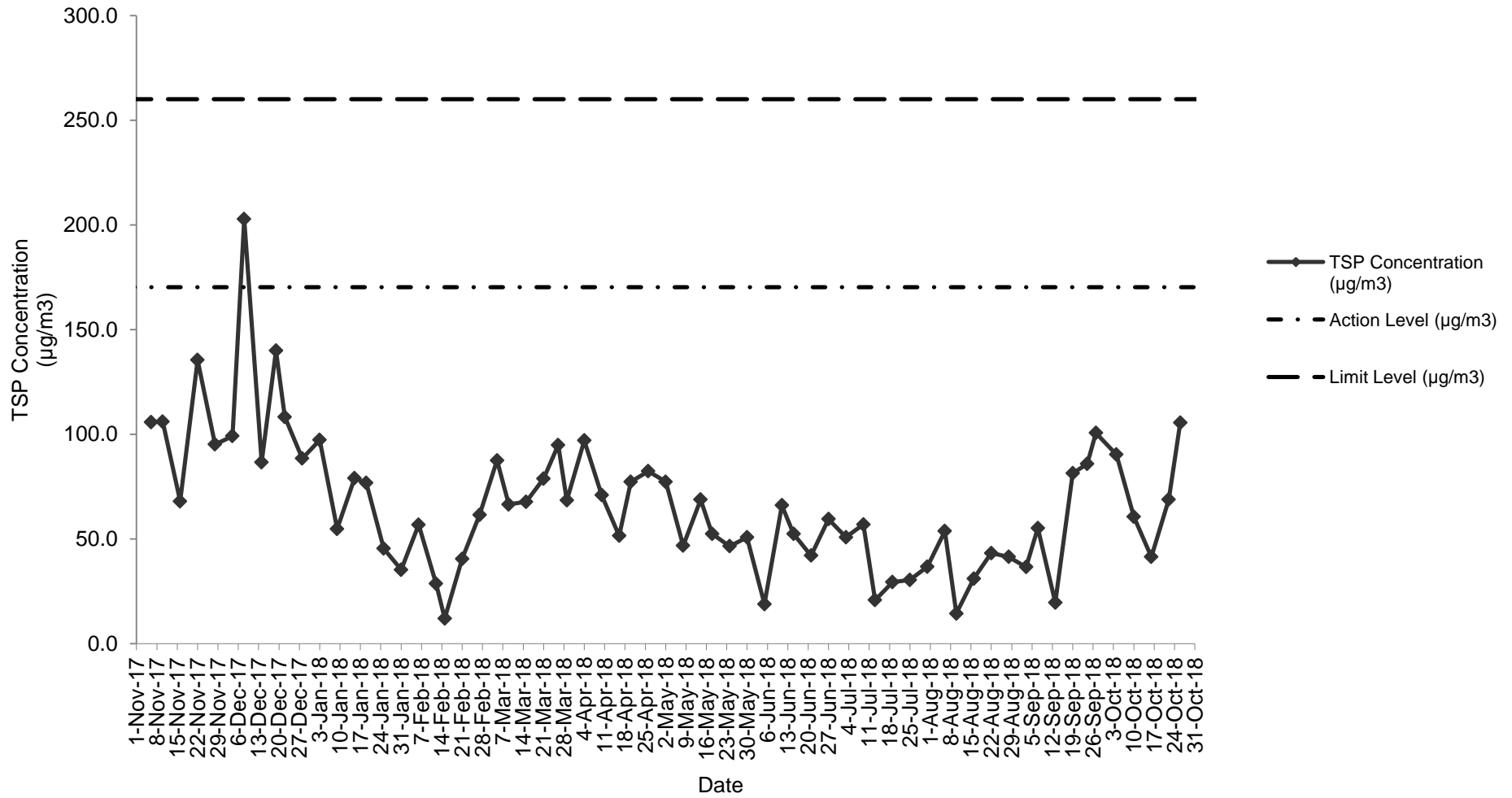
24-Hour TSP Monitoring Result at Station: SR77

| Sampling Date | Weather Condition | Paper No. | Wt. of paper (g) |           |             | Elapse Time |         |               | Flow Rate (CFM) |       |               | Flow Rate (m <sup>3</sup> /min) |       |               | Total Volume (m <sup>3</sup> ) | TSP Concentration (µg/m <sup>3</sup> ) | Action Level (µg/m <sup>3</sup> ) | Limit Level (µg/m <sup>3</sup> ) | Wind speed m/s | Wind direction |
|---------------|-------------------|-----------|------------------|-----------|-------------|-------------|---------|---------------|-----------------|-------|---------------|---------------------------------|-------|---------------|--------------------------------|--|-----------------------------------|----------------------------------|----------------|----------------|
|               |                   |           | Initial Wt.      | Final Wt. | Wt. of Dust | Initial     | Final   | Sampling Hour | Initial         | Final | Avg Flow Rate | Initial                         | Final | Avg Flow Rate |                                |  |                                   |                                  |                |                |
| 19-Jul-18     | Cloudy            | C154      | 2.8219           | 2.8831    | 0.0612      | 8604.67     | 8628.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 29.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 25-Jul-18     | Fine              | C156      | 2.8181           | 2.8814    | 0.0633      | 8631.67     | 8655.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 30.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 31-Jul-18     | Fine              | C158      | 2.8119           | 2.8884    | 0.0765      | 8658.67     | 8682.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 36.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 6-Aug-18      | Cloudy            | C160      | 2.8146           | 2.9265    | 0.1119      | 8685.67     | 8709.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 53.8                                   | 170.3                             | 260.0                            | <5             | N              |
| 10-Aug-18     | Rainy             | C162      | 2.8018           | 2.8318    | 0.0300      | 8712.67     | 8736.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 14.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 16-Aug-18     | Rainy             | C164      | 2.8286           | 2.8932    | 0.0646      | 8739.67     | 8763.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 31.1                                   | 170.3                             | 260.0                            | <5             | N              |
| 22-Aug-18     | Cloudy            | C166      | 2.8124           | 2.9024    | 0.0900      | 8766.67     | 8790.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 43.3                                   | 170.3                             | 260.0                            | <5             | N              |
| 28-Aug-18     | Cloudy            | C168      | 2.8149           | 2.9012    | 0.0863      | 8793.67     | 8817.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 41.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 3-Sep-18      | Cloudy            | C170      | 2.8293           | 2.9054    | 0.0761      | 8820.67     | 8844.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 36.6                                   | 170.3                             | 260.0                            | <5             | N              |
| 7-Sep-18      | Fine              | C172      | 2.8223           | 2.9371    | 0.1148      | 8847.67     | 8871.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 55.2                                   | 170.3                             | 260.0                            | <5             | N              |
| 13-Sep-18     | Fine              | C174      | 2.6738           | 2.7147    | 0.0409      | 8874.67     | 8898.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 19.7                                   | 170.3                             | 260.0                            | <5             | N              |
| 19-Sep-18     | Cloudy            | C176      | 2.6787           | 2.8479    | 0.1692      | 8901.67     | 8925.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 81.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 24-Sep-18     | Fine              | C178      | 2.6814           | 2.8601    | 0.1787      | 8928.67     | 8952.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 85.9                                   | 170.3                             | 260.0                            | <5             | N              |
| 27-Sep-18     | Fine              | C180      | 2.6498           | 2.8591    | 0.2093      | 8955.67     | 8979.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 100.6                                  | 170.3                             | 260.0                            | <5             | N              |
| 4-Oct-18      | Sunny             | C182      | 2.6644           | 2.8523    | 0.1879      | 8982.67     | 9006.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 90.4                                   | 170.3                             | 260.0                            | <5             | N              |
| 10-Oct-18     | Cloudy            | C184      | 2.6874           | 2.8135    | 0.1261      | 9009.67     | 9033.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 60.6                                   | 170.3                             | 260.0                            | <5             | N              |
| 16-Oct-18     | Cloudy            | C186      | 2.6781           | 2.7644    | 0.0863      | 9036.67     | 9060.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 41.5                                   | 170.3                             | 260.0                            | <5             | N              |
| 22-Oct-18     | Cloudy            | C188      | 2.6392           | 2.7825    | 0.1433      | 9063.67     | 9087.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 68.9                                   | 170.3                             | 260.0                            | <5             | N              |
| 26-Oct-18     | Sunny             | C190      | 2.6519           | 2.8714    | 0.2195      | 9090.67     | 9114.67 | 24.00         | 51              | 51    | 51.0          | 1.44                            | 1.44  | 1.44          | 2079.59                        | 105.5                                  | 170.3                             | 260.0                            | <5             | N              |

| Summary For the Reporting Period (Nov 2017 - Oct 2018) |       |
|--|-------|
| Average  | 66.7  |
| Minimum  | 12.1  |
| Maximum  | 202.7 |

Note: No major dust source observed during the monitoring period  
Data in **Bold** denotes exceedance of respective Action Level  
Data in **Bold Underline** denotes exceedance of respective Limit Level

### 24-Hour TSP Monitoring Result at Station: SR77 (Nov 2017 - Oct 2018)



**Appendix F**  
**Air Quality Monitoring Results and their Graphical Presentation**

**1-Hour TSP Monitoring Result at Station: SR77**

| Date      | Weather Condition | Time         | Conc.(µg/m <sup>3</sup> ) |                      |                      | Action Level (µg/m <sup>3</sup> ) | Limit Level (µg/m <sup>3</sup> ) |
|-----------|-------------------|--------------|---------------------------|----------------------|----------------------|-----------------------------------|----------------------------------|
|           |                   |              | 1 <sup>st</sup> Hour      | 2 <sup>nd</sup> Hour | 3 <sup>rd</sup> Hour |                                   |                                  |
| 3-Oct-17  | Sunny             | 9:00 - 12:07 | 105.0                     | 107.3                | 94.6                 | 292.7                             | 500.0                            |
| 9-Oct-17  | Cloudy            | 9:00 - 12:06 | 167.3                     | 153.5                | 163.9                | 292.7                             | 500.0                            |
| 13-Oct-17 | Sunny             | 9:00 - 12:08 | 202.0                     | 204.3                | 190.4                | 292.7                             | 500.0                            |
| 19-Oct-17 | Fine              | 9:00 - 12:08 | 114.3                     | 129.3                | 100.4                | 292.7                             | 500.0                            |
| 25-Oct-17 | Sunny             | 9:00 - 12:08 | 158.1                     | 173.1                | 166.2                | 292.7                             | 500.0                            |
| 31-Oct-17 | Sunny             | 9:00 - 12:08 | 223.9                     | 230.8                | 235.4                | 292.7                             | 500.0                            |
| 6-Nov-17  | Fine              | 9:00 - 12:07 | 236.6                     | 230.8                | 217.0                | 292.7                             | 500.0                            |
| 10-Nov-17 | Sunny             | 9:00 - 12:07 | 182.3                     | 184.7                | 191.6                | 292.7                             | 500.0                            |
| 16-Nov-17 | Cloudy            | 9:00 - 12:08 | 131.6                     | 125.8                | 130.4                | 292.7                             | 500.0                            |
| 22-Nov-17 | Sunny             | 9:00 - 12:07 | 183.5                     | 193.9                | 180.0                | 292.7                             | 500.0                            |
| 28-Nov-17 | Cloudy            | 9:00 - 12:07 | 196.2                     | 202.0                | 198.5                | 292.7                             | 500.0                            |
| 4-Dec-17  | Sunny             | 9:00 - 12:08 | 212.3                     | 208.9                | 205.4                | 292.7                             | 500.0                            |
| 8-Dec-17  | Fine              | 9:00 - 12:07 | 212.3                     | 210.0                | 205.4                | 292.7                             | 500.0                            |
| 14-Dec-17 | Fine              | 9:00 - 12:07 | 184.7                     | 173.1                | 168.5                | 292.7                             | 500.0                            |
| 19-Dec-17 | Sunny             | 9:00 - 12:07 | 247.0                     | 242.4                | 238.9                | 292.7                             | 500.0                            |
| 22-Dec-17 | Fine              | 9:00 - 12:07 | 203.1                     | 199.7                | 205.4                | 292.7                             | 500.0                            |
| 28-Dec-17 | Cloudy            | 9:00 - 12:08 | 136.2                     | 120.0                | 114.3                | 292.7                             | 500.0                            |
| 3-Jan-18  | Fine              | 9:00 - 12:08 | 137.3                     | 143.1                | 133.9                | 292.7                             | 500.0                            |
| 9-Jan-18  | Cloudy            | 9:00 - 12:08 | 107.3                     | 109.6                | 103.9                | 292.7                             | 500.0                            |
| 15-Jan-18 | Sunny             | 9:00 - 12:08 | 136.2                     | 128.1                | 132.7                | 292.7                             | 500.0                            |
| 19-Jan-18 | Fine              | 9:00 - 12:08 | 101.6                     | 107.3                | 103.9                | 292.7                             | 500.0                            |
| 25-Jan-18 | Fine              | 9:00 - 12:08 | 136.2                     | 132.7                | 124.6                | 292.7                             | 500.0                            |
| 31-Jan-18 | Cloudy            | 9:00 - 12:08 | 84.2                      | 101.6                | 95.8                 | 292.7                             | 500.0                            |
| 3-Jan-18  | Fine              | 9:00 - 12:08 | 137.3                     | 143.1                | 133.9                | 292.7                             | 500.0                            |
| 9-Jan-18  | Cloudy            | 9:00 - 12:08 | 107.3                     | 109.6                | 103.9                | 292.7                             | 500.0                            |
| 15-Jan-18 | Sunny             | 9:00 - 12:08 | 136.2                     | 128.1                | 132.7                | 292.7                             | 500.0                            |
| 19-Jan-18 | Fine              | 9:00 - 12:08 | 101.6                     | 107.3                | 103.9                | 292.7                             | 500.0                            |
| 25-Jan-18 | Fine              | 9:00 - 12:08 | 136.2                     | 132.7                | 124.6                | 292.7                             | 500.0                            |
| 31-Jan-18 | Cloudy            | 9:00 - 12:08 | 84.2                      | 101.6                | 95.8                 | 292.7                             | 500.0                            |
| 6-Feb-18  | Sunny             | 9:00 - 12:08 | 140.8                     | 137.3                | 124.6                | 292.7                             | 500.0                            |
| 12-Feb-18 | Sunny             | 9:00 - 12:08 | 130.4                     | 124.6                | 121.2                | 292.7                             | 500.0                            |
| 15-Feb-18 | Fine              | 9:00 - 12:08 | 91.2                      | 93.5                 | 102.7                | 292.7                             | 500.0                            |
| 21-Feb-18 | Cloudy            | 9:00 - 12:09 | 95.8                      | 107.3                | 91.2                 | 292.7                             | 500.0                            |
| 27-Feb-18 | Sunny             | 9:00 - 12:09 | 139.6                     | 118.9                | 136.2                | 292.7                             | 500.0                            |
| 5-Mar-18  | Sunny             | 9:00 - 12:08 | 160.4                     | 178.9                | 155.8                | 292.7                             | 500.0                            |
| 9-Mar-18  | Sunny             | 9:00 - 12:08 | 126.9                     | 121.2                | 128.1                | 292.7                             | 500.0                            |
| 15-Mar-18 | Cloudy            | 9:00 - 12:09 | 158.1                     | 160.4                | 144.3                | 292.7                             | 500.0                            |
| 21-Mar-18 | Sunny             | 9:00 - 12:08 | 177.7                     | 172.0                | 170.8                | 292.7                             | 500.0                            |
| 26-Mar-18 | Cloudy            | 9:00 - 12:08 | 190.4                     | 196.2                | 193.9                | 292.7                             | 500.0                            |
| 29-Mar-18 | Sunny             | 9:00 - 12:08 | 118.9                     | 123.5                | 122.3                | 292.7                             | 500.0                            |
| 4-Apr-18  | Fine              | 9:00 - 12:08 | 101.6                     | 95.8                 | 99.3                 | 292.7                             | 500.0                            |
| 10-Apr-18 | Fine              | 9:00 - 12:09 | 197.3                     | 195.0                | 189.3                | 292.7                             | 500.0                            |
| 16-Apr-18 | Cloudy            | 9:00 - 12:08 | 96.9                      | 103.9                | 106.2                | 292.7                             | 500.0                            |
| 20-Apr-18 | Fine              | 9:00 - 12:09 | 139.6                     | 140.8                | 135.0                | 292.7                             | 500.0                            |
| 26-Apr-18 | Cloudy            | 9:00 - 12:08 | 153.5                     | 158.1                | 152.3                | 292.7                             | 500.0                            |
| 2-May-18  | Sunny             | 9:00 - 12:08 | 133.9                     | 129.3                | 145.4                | 292.7                             | 500.0                            |
| 8-May-18  | Cloudy            | 9:00 - 12:07 | 143.1                     | 154.6                | 155.8                | 292.7                             | 500.0                            |
| 14-May-18 | Sunny             | 9:00 - 12:09 | 93.5                      | 106.2                | 90.0                 | 292.7                             | 500.0                            |
| 18-May-18 | Sunny             | 9:00 - 12:07 | 123.5                     | 117.7                | 114.3                | 292.7                             | 500.0                            |
| 24-May-18 | Sunny             | 9:00 - 12:08 | 111.9                     | 115.4                | 108.5                | 292.7                             | 500.0                            |
| 30-May-18 | Sunny             | 9:00 - 12:09 | 76.2                      | 128.1                | 124.6                | 292.7                             | 500.0                            |
| 5-Jun-18  | Rainy             | 9:00 - 12:08 | 145.4                     | 147.7                | 151.2                | 292.7                             | 500.0                            |
| 11-Jun-18 | Sunny             | 9:00 - 12:09 | 103.9                     | 108.5                | 107.3                | 292.7                             | 500.0                            |
| 15-Jun-18 | Fine              | 9:00 - 12:08 | 109.6                     | 111.1                | 115.4                | 292.7                             | 500.0                            |
| 21-Jun-18 | Fine              | 9:00 - 12:08 | 101.6                     | 95.8                 | 98.1                 | 292.7                             | 500.0                            |
| 27-Jun-18 | Fine              | 9:00 - 12:08 | 111.9                     | 115.4                | 110.8                | 292.7                             | 500.0                            |
| 3-Jul-18  | Rainy             | 9:00 - 12:08 | 129.3                     | 142.0                | 122.3                | 292.7                             | 500.0                            |

**Appendix F**  
**Air Quality Monitoring Results and their Graphical Presentation**

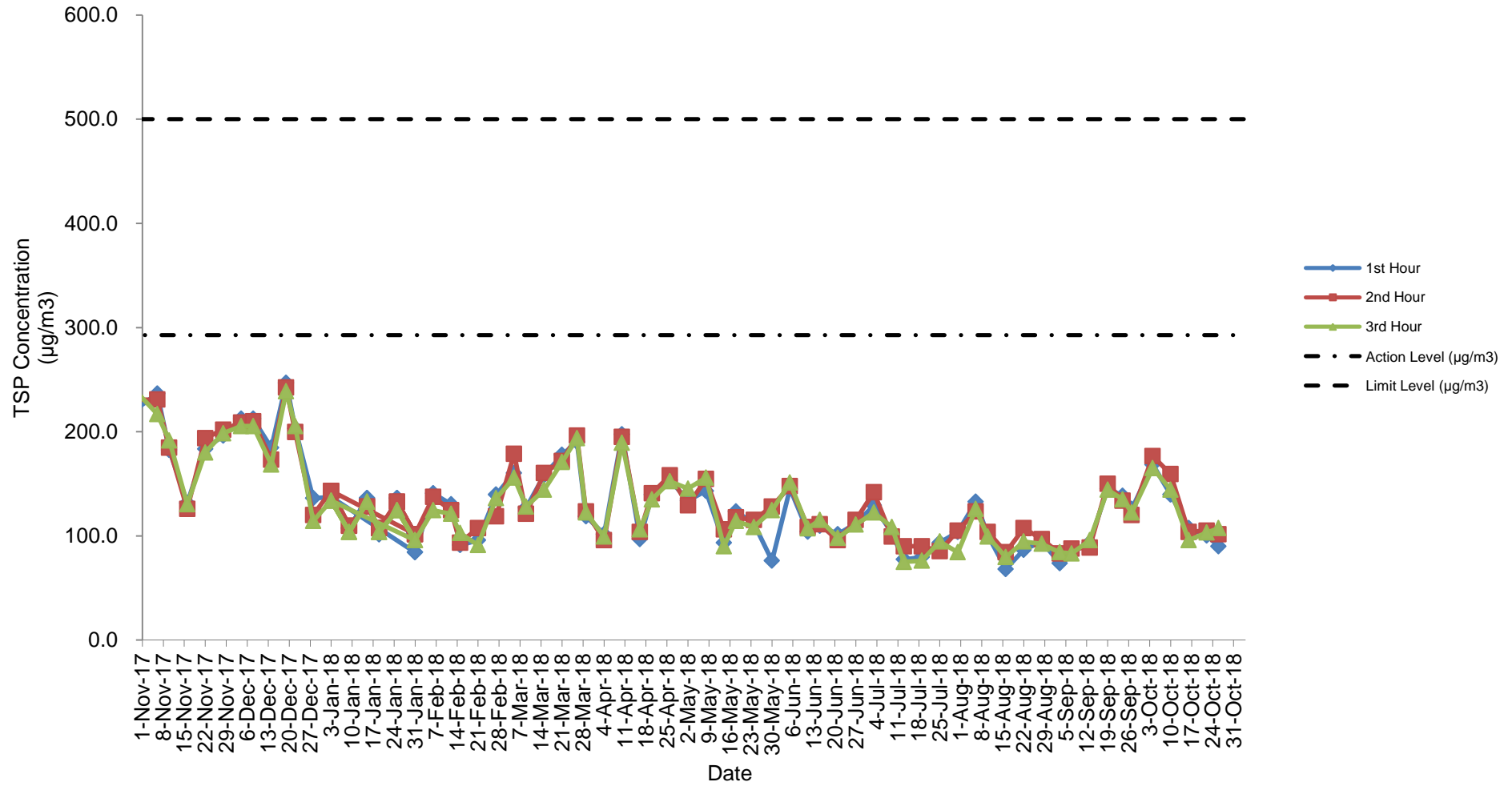
**1-Hour TSP Monitoring Result at Station: SR77**

| Date      | Weather Condition | Time         | Conc.(µg/m <sup>3</sup> ) |                      |                      | Action Level (µg/m <sup>3</sup> ) | Limit Level (µg/m <sup>3</sup> ) |
|-----------|-------------------|--------------|---------------------------|----------------------|----------------------|-----------------------------------|----------------------------------|
|           |                   |              | 1 <sup>st</sup> Hour      | 2 <sup>nd</sup> Hour | 3 <sup>rd</sup> Hour |                                   |                                  |
| 9-Jul-18  | Fine              | 9:00 - 12:07 | 102.7                     | 99.3                 | 108.5                | 292.7                             | 500.0                            |
| 13-Jul-18 | Rainy             | 9:00 - 12:08 | 77.3                      | 90.0                 | 75.0                 | 292.7                             | 500.0                            |
| 19-Jul-18 | Cloudy            | 9:00 - 12:08 | 79.6                      | 90.0                 | 76.2                 | 292.7                             | 500.0                            |
| 25-Jul-18 | Fine              | 9:00 - 12:08 | 93.5                      | 85.4                 | 94.6                 | 292.7                             | 500.0                            |
| 31-Jul-18 | Fine              | 9:00 - 12:08 | 103.9                     | 105.0                | 84.2                 | 292.7                             | 500.0                            |
| 6-Aug-18  | Cloudy            | 9:00 - 12:08 | 132.7                     | 123.5                | 125.8                | 292.7                             | 500.0                            |
| 10-Aug-18 | Rainy             | 9:00 - 12:08 | 100.4                     | 103.9                | 99.3                 | 292.7                             | 500.0                            |
| 16-Aug-18 | Rainy             | 9:00 - 12:11 | 68.1                      | 84.2                 | 79.6                 | 292.7                             | 500.0                            |
| 22-Aug-18 | Cloudy            | 9:00 - 12:08 | 86.6                      | 107.3                | 94.6                 | 292.7                             | 500.0                            |
| 28-Aug-18 | Cloudy            | 9:00 - 12:11 | 94.6                      | 96.9                 | 92.3                 | 292.7                             | 500.0                            |
| 3-Sep-18  | Cloudy            | 9:00 - 12:08 | 73.9                      | 83.1                 | 84.2                 | 292.7                             | 500.0                            |
| 7-Sep-18  | Fine              | 9:00 - 12:08 | 84.2                      | 87.7                 | 83.1                 | 292.7                             | 500.0                            |
| 13-Sep-18 | Fine              | 9:00 - 12:08 | 93.5                      | 88.9                 | 95.8                 | 292.7                             | 500.0                            |
| 19-Sep-18 | Cloudy            | 9:00 - 12:07 | 145.4                     | 150.0                | 144.3                | 292.7                             | 500.0                            |
| 24-Sep-18 | Fine              | 9:00 - 12:08 | 138.5                     | 133.9                | 135.0                | 292.7                             | 500.0                            |
| 27-Sep-18 | Fine              | 9:00 - 12:08 | 125.8                     | 120.0                | 122.3                | 292.7                             | 500.0                            |
| 4-Oct-18  | Sunny             | 9:00 - 12:08 | 168.5                     | 176.6                | 165.0                | 292.7                             | 500.0                            |
| 10-Oct-18 | Cloudy            | 9:00 - 12:07 | 139.6                     | 159.3                | 144.3                | 292.7                             | 500.0                            |
| 16-Oct-18 | Cloudy            | 9:00 - 12:09 | 107.3                     | 103.9                | 95.8                 | 292.7                             | 500.0                            |
| 22-Oct-18 | Cloudy            | 9:00 - 12:07 | 100.4                     | 105.0                | 103.2                | 292.7                             | 500.0                            |
| 26-Oct-18 | Sunny             | 9:00 - 12:08 | 90.0                      | 101.6                | 107.3                | 292.7                             | 500.0                            |

| <b>Summary For the Reporting Period (Nov 2017 - Oct 2018)</b> |       |
|---|-------|
| <b>Average</b>  | 132.8 |
| <b>Minimum</b>  | 68.1  |
| <b>Maximum</b>  | 247.0 |

Note: No major dust source observed during the monitoring period

### 1-Hour TSP Monitoring Result at station: SR77 (Nov 2017 - Oct 2018)



**Appendix F**  
**Noise Monitoring Results and their Graphical Presentation**

**Noise Monitoring Result at SR77**

| Date       | Weather Condition | Start Time | End Time | Measured Noise Level (dB(A))* |            |            | Baseline Corrected Level, dB(A)** | Baseline Noise Level (dB(A)), Leq(30min) | Limit Level dB(A) | Exceedance (Y / N) |
|------------|-------------------|------------|----------|-------------------------------|------------|------------|-----------------------------------|--|-------------------|--------------------|
|            |                   |            |          | L10(30min)                    | L90(30min) | Leq(30min) |                                   |  |                   |                    |
| 2017-11-06 | Fine              | 11:00      | 11:30    | 91.0                          | 62.5       | 70.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-11-16 | Cloudy            | 11:00      | 11:30    | 93.5                          | 56.5       | 73.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-11-22 | Sunny             | 11:00      | 11:30    | 91.5                          | 68.5       | 74.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-11-28 | Cloudy            | 11:15      | 11:45    | 87.5                          | 64.5       | 71.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-12-04 | Sunny             | 11:15      | 11:45    | 92.0                          | 62.0       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-12-14 | Fine              | 11:30      | 12:00    | 96.0                          | 65.0       | 73.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-12-19 | Sunny             | 11:30      | 12:00    | 92.5                          | 61.5       | 73.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2017-12-28 | Cloudy            | 11:30      | 12:00    | 94.5                          | 61.5       | 72.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-01-03 | Fine              | 11:00      | 11:30    | 97.0                          | 60.0       | 74.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-01-09 | Cloudy            | 11:30      | 12:00    | 91.0                          | 63.5       | 74.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-01-15 | Sunny             | 11:30      | 12:00    | 93.0                          | 61.0       | 73.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-01-25 | Fine              | 11:30      | 12:00    | 91.5                          | 60.5       | 74.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-01-31 | Cloudy            | 11:30      | 12:00    | 90.0                          | 65.0       | 74.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-02-06 | Sunny             | 11:15      | 11:45    | 91.0                          | 60.0       | 70.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-02-12 | Sunny             | 11:30      | 12:00    | 90.0                          | 57.5       | 72.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-02-21 | Cloudy            | 11:30      | 12:00    | 95.5                          | 57.5       | 73.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-02-27 | Sunny             | 11:20      | 11:50    | 92.0                          | 60.0       | 73.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-03-05 | Sunny             | 16:15      | 16:45    | 89.0                          | 58.5       | 72.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-03-15 | Cloudy            | 11:30      | 12:00    | 91.5                          | 59.0       | 72.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-03-21 | Sunny             | 11:15      | 11:45    | 93.5                          | 58.0       | 72.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-03-26 | Cloudy            | 11:30      | 12:00    | 92.0                          | 59.5       | 73.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-04-04 | Sunny             | 11:15      | 11:45    | 92.0                          | 58.0       | 65.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-04-10 | Fine              | 11:30      | 12:00    | 76.5                          | 62.5       | 66.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-04-16 | Cloudy            | 11:30      | 12:00    | 75.5                          | 65.5       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-04-26 | Cloudy            | 11:30      | 12:00    | 89.5                          | 65.0       | 68.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-05-02 | Sunny             | 11:15      | 11:45    | 78.5                          | 62.5       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-05-08 | Cloudy            | 11:25      | 11:55    | 77.5                          | 67.0       | 67.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-05-14 | Sunny             | 11:25      | 11:55    | 85.0                          | 63.0       | 71.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-05-24 | Sunny             | 11:30      | 12:00    | 75.5                          | 59.0       | 67.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-05-30 | Sunny             | 11:30      | 12:00    | 75.4                          | 66.0       | 70.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-06-05 | Rainy             | 11:30      | 12:00    | 65.5                          | 60.0       | 62.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-06-11 | Sunny             | 11:30      | 12:00    | 75.5                          | 62.5       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-06-21 | Fine              | 11:30      | 12:00    | 75.0                          | 64.5       | 68.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-06-27 | Fine              | 11:30      | 12:00    | 80.5                          | 63.5       | 72.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-07-03 | Rainy             | 11:15      | 11:45    | 71.5                          | 66.5       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-07-09 | Fine              | 11:15      | 11:45    | 69.5                          | 67.5       | 68.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-07-19 | Cloudy            | 11:15      | 11:45    | 74.5                          | 65.5       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-07-25 | Fine              | 11:15      | 11:45    | 76.0                          | 66.0       | 72.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-07-31 | Fine              | 11:15      | 11:45    | 76.0                          | 66.5       | 71.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-08-06 | Cloudy            | 11:15      | 11:45    | 80.5                          | 60.0       | 72.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-08-16 | Rainy             | 16:00      | 16:30    | 86.0                          | 60.5       | 73.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-08-22 | Cloudy            | 11:30      | 12:00    | 82.0                          | 64.0       | 72.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-08-28 | Cloudy            | 11:30      | 12:00    | 77.5                          | 64.5       | 69.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-09-03 | Cloudy            | 11:15      | 11:45    | 75.0                          | 66.5       | 70.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-09-13 | Fine              | 11:15      | 11:45    | 78.5                          | 66.0       | 73.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-09-19 | Cloudy            | 11:15      | 11:45    | 75.5                          | 74.0       | 74.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-09-24 | Fine              | 11:30      | 12:00    | 82.0                          | 64.5       | 74.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-10-04 | Sunny             | 11:15      | 11:45    | 72.5                          | 70.0       | 71.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-10-10 | Cloudy            | 11:15      | 11:45    | 79.0                          | 70.5       | 73.5       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-10-16 | Cloudy            | 11:15      | 11:45    | 80.5                          | 65.5       | 73.0       | -                                 | 67.8                                     | 75.0              | N                  |
| 2018-10-22 | Cloudy            | 11:30      | 12:00    | 77.0                          | 66.0       | 70.5       | -                                 | 67.8                                     | 75.0              | N                  |

| Summary For the Reporting Period (Nov 2017 - Oct 2018) |      |
|--|------|
| Average  | 71.2 |
| Minimum  | 62.0 |
| Maximum  | 74.5 |

**Remarks**

- \* +3dB(A) Façade effect correction included
- \*\* Baseline corrected level is only calculated when measured noise level (Leq) > limit level.
- \*\*\* Data in **Underline** denotes exceedance of respective Limit Level



### Noise monitoring result: SR77 (Nov 2017 - Oct 2018)

