


**Appendix 7-A Noise Impact Analysis Supporting Documentation**

# APPENDIX 7-A: NOISE IMPACT ANALYSIS SUPPORTING DOCUMENTATION

# APPENDIX 7-A.1: LIST OF MODELED SOUND SOURCES

**Table 7-1.1: Modeled Sources Sources in the Cadna/A Model**

| Name | ID | Relative Source Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Source Height |
|---|---|---|---|---|---|
| | | | X | Y | Z |
| | | (m) | (m) | (m) | (m) |
| TRANSFORMER_1 | T1 | 6.1 | 726526.82 | 4776234.85 | 207.10 |
| TRANSFORMER_2 | T2 | 6.1 | 726528.50 | 4776204.75 | 207.10 |
| INVERTER | 1 | 2.9 | 726512.59 | 4775920.20 | 208.77 |
| INVERTER | 2 | 2.9 | 726385.20 | 4775812.83 | 208.96 |
| INVERTER | 3 | 2.9 | 728736.09 | 4777039.37 | 210.43 |
| INVERTER | 4 | 2.9 | 728711.39 | 4777073.00 | 211.80 |
| INVERTER | 5 | 2.9 | 728195.45 | 4777074.99 | 209.90 |
| INVERTER | 6 | 2.9 | 728149.87 | 4777123.86 | 209.90 |
| INVERTER | 7 | 2.9 | 731018.03 | 4775035.53 | 228.78 |
| INVERTER | 8 | 2.9 | 731238.69 | 4775041.89 | 233.90 |
| INVERTER | 9 | 2.9 | 731276.92 | 4775062.44 | 232.41 |
| INVERTER | 10 | 2.9 | 731045.24 | 4775055.76 | 228.30 |
| INVERTER | 11 | 2.9 | 730741.84 | 4775047.01 | 223.50 |
| INVERTER | 12 | 2.9 | 730432.93 | 4775038.10 | 227.37 |
| INVERTER | 13 | 2.9 | 730278.43 | 4775035.29 | 224.90 |
| INVERTER | 14 | 2.9 | 729311.39 | 4775410.91 | 217.11 |
| INVERTER | 15 | 2.9 | 729565.14 | 4775418.23 | 218.05 |
| INVERTER | 16 | 2.9 | 729791.31 | 4775424.75 | 220.20 |
| INVERTER | 17 | 2.9 | 729956.79 | 4775429.53 | 226.00 |
| INVERTER | 18 | 2.9 | 729944.93 | 4775409.74 | 224.97 |
| INVERTER | 19 | 2.9 | 730098.47 | 4775405.51 | 223.52 |
| INVERTER | 20 | 2.9 | 729597.40 | 4775399.72 | 218.29 |
| INVERTER | 21 | 2.9 | 729458.84 | 4775091.00 | 219.98 |
| INVERTER | 22 | 2.9 | 729598.54 | 4774792.27 | 221.90 |
| INVERTER | 23 | 2.9 | 729704.56 | 4774747.68 | 221.96 |
| INVERTER | 24 | 2.9 | 729461.01 | 4774768.86 | 221.90 |
| INVERTER | 25 | 2.9 | 729437.00 | 4775171.49 | 219.13 |
| INVERTER | 26 | 2.9 | 730689.76 | 4775923.48 | 223.54 |
| INVERTER | 27 | 2.9 | 730685.13 | 4776084.19 | 213.54 |
| INVERTER | 28 | 2.9 | 730667.78 | 4776083.69 | 213.55 |
| INVERTER | 29 | 2.9 | 730671.61 | 4775950.78 | 221.69 |
| INVERTER | 30 | 2.9 | 731334.62 | 4776196.91 | 213.29 |
| INVERTER | 31 | 2.9 | 731322.89 | 4775982.58 | 215.90 |
| INVERTER | 32 | 2.9 | 729817.45 | 4776559.74 | 207.33 |
| INVERTER | 33 | 2.9 | 730047.38 | 4776559.33 | 211.22 |
| INVERTER | 34 | 2.9 | 730284.58 | 4776566.17 | 211.56 |
| INVERTER | 35 | 2.9 | 729976.10 | 4776537.83 | 209.90 |
| INVERTER | 36 | 2.9 | 730307.08 | 4776547.38 | 212.58 |
| INVERTER | 37 | 2.9 | 730582.89 | 4776555.34 | 212.90 |
| INVERTER | 38 | 2.9 | 729138.42 | 4776483.72 | 207.61 |
| INVERTER | 39 | 2.9 | 728984.41 | 4776459.64 | 206.90 |

**Table 7-1.1: Modeled Sources Sources in the Cadna/A Model**

| Name | ID | Relative Source Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Source Height |
|---|---|---|---|---|---|
| | | | X | Y | Z |
| | | (m) | (m) | (m) | (m) |
| INVERTER | 40 | 2.9 | 728861.44 | 4775446.02 | 215.62 |
| INVERTER | 41 | 2.9 | 728880.35 | 4775482.56 | 214.87 |
| INVERTER | 42 | 2.9 | 728066.13 | 4775081.42 | 224.40 |
| INVERTER | 43 | 2.9 | 728230.05 | 4775277.26 | 220.39 |
| INVERTER | 44 | 2.9 | 728402.90 | 4775299.76 | 218.82 |
| INVERTER | 45 | 2.9 | 727294.12 | 4775049.51 | 225.79 |
| INVERTER | 46 | 2.9 | 727082.01 | 4774776.06 | 224.90 |
| INVERTER | 47 | 2.9 | 726831.03 | 4774875.76 | 220.55 |
| INVERTER | 48 | 2.9 | 726603.21 | 4774790.97 | 218.90 |
| INVERTER | 49 | 2.9 | 726766.75 | 4774878.58 | 220.08 |
| INVERTER | 50 | 2.9 | 726921.81 | 4774936.39 | 220.05 |
| INVERTER | 51 | 2.9 | 727142.16 | 4775020.16 | 221.90 |
| INVERTER | 52 | 2.9 | 727295.95 | 4775079.14 | 225.53 |
| INVERTER | 53 | 2.9 | 727481.21 | 4775150.15 | 226.29 |
| INVERTER | 54 | 2.9 | 727624.28 | 4775143.01 | 219.04 |
| INVERTER | 55 | 2.9 | 727589.51 | 4774793.29 | 221.90 |
| INVERTER | 56 | 2.9 | 727292.78 | 4774624.65 | 222.25 |
| INVERTER | 57 | 2.9 | 727093.63 | 4774510.61 | 223.88 |
| INVERTER | 58 | 2.9 | 726898.45 | 4774400.17 | 221.86 |
| INVERTER | 59 | 2.9 | 726744.10 | 4774317.39 | 221.43 |
| INVERTER | 60 | 2.9 | 724651.81 | 4774565.09 | 206.82 |
| INVERTER | 61 | 2.9 | 724799.88 | 4774598.60 | 207.98 |
| INVERTER | 62 | 2.9 | 724970.88 | 4774603.53 | 210.33 |
| INVERTER | 63 | 2.9 | 725158.43 | 4774608.94 | 211.06 |
| INVERTER | 64 | 2.9 | 725390.10 | 4774615.62 | 215.90 |
| INVERTER | 65 | 2.9 | 724705.72 | 4774615.40 | 206.17 |
| INVERTER | 66 | 2.9 | 725003.59 | 4774623.99 | 210.29 |
| INVERTER | 67 | 2.9 | 725196.66 | 4774629.56 | 211.39 |
| INVERTER | 68 | 2.9 | 725396.06 | 4774939.81 | 206.76 |
| INVERTER | 69 | 2.9 | 725414.70 | 4775021.86 | 206.06 |
| INVERTER | 70 | 2.9 | 725668.73 | 4774723.52 | 215.90 |
| INVERTER | 71 | 2.9 | 725636.01 | 4774703.13 | 215.90 |
| INVERTER | 72 | 2.9 | 725970.60 | 4774784.82 | 215.90 |
| INVERTER | 73 | 2.9 | 726002.32 | 4774554.08 | 216.28 |
| INVERTER | 74 | 2.9 | 726029.97 | 4774546.11 | 216.99 |
| INVERTER | 75 | 2.9 | 726278.20 | 4774553.27 | 218.90 |
| INVERTER | 76 | 2.9 | 726256.52 | 4774572.08 | 218.90 |
| INVERTER | 77 | 2.9 | 726250.73 | 4775145.16 | 218.63 |
| INVERTER | 78 | 2.9 | 726344.66 | 4775167.31 | 218.90 |
| INVERTER | 79 | 2.9 | 724393.96 | 4775225.84 | 200.90 |
| INVERTER | 80 | 2.9 | 724242.23 | 4774970.56 | 204.24 |

**Table 7-1.1: Modeled Sources Sources in the Cadna/A Model**

| Name | ID | Relative Source Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Source Height |
|---|---|---|---|---|---|
| | | | X | Y | Z |
| | | (m) | (m) | (m) | (m) |
| INVERTER | 81 | 2.9 | 724275.71 | 4774952.09 | 205.32 |
| INVERTER | 82 | 2.9 | 724645.29 | 4774962.74 | 206.91 |
| INVERTER | 83 | 2.9 | 724436.74 | 4775227.08 | 200.90 |
| INVERTER | 84 | 2.9 | 724562.17 | 4774979.79 | 206.90 |
| INVERTER | 85 | 2.9 | 724973.22 | 4775053.85 | 204.34 |
| INVERTER | 86 | 2.9 | 725204.15 | 4775223.54 | 205.68 |
| INVERTER | 87 | 2.9 | 726682.31 | 4773403.39 | 227.63 |
| INVERTER | 88 | 2.9 | 726869.86 | 4773408.79 | 229.56 |
| INVERTER | 89 | 2.9 | 726841.69 | 4773428.52 | 228.58 |
| INVERTER | 90 | 2.9 | 727073.37 | 4773435.20 | 233.46 |
| INVERTER | 91 | 2.9 | 726379.49 | 4773397.20 | 224.61 |
| INVERTER | 92 | 2.9 | 726445.07 | 4773420.19 | 224.85 |
| INVERTER | 93 | 2.9 | 725878.81 | 4775773.35 | 204.80 |
| INVERTER | 94 | 2.9 | 725755.45 | 4775800.06 | 207.07 |
| INVERTER | 95 | 2.9 | 725424.48 | 4775790.51 | 204.02 |
| INVERTER | 96 | 2.9 | 725098.94 | 4775760.55 | 208.73 |
| INVERTER | 97 | 2.9 | 725054.90 | 4775779.85 | 211.70 |
| INVERTER | 98 | 2.9 | 725592.19 | 4776330.38 | 197.90 |
| INVERTER | 99 | 2.9 | 725543.24 | 4776291.68 | 199.21 |
| INVERTER | 100 | 2.9 | 725191.49 | 4776229.03 | 202.30 |
| INVERTER | 101 | 2.9 | 725319.63 | 4776259.48 | 201.28 |
| INVERTER | 102 | 2.9 | 725017.73 | 4776201.98 | 199.87 |
| INVERTER | 103 | 2.9 | 727413.33 | 4775851.46 | 222.17 |
| INVERTER | 104 | 2.9 | 727395.84 | 4775850.96 | 221.90 |
| INVERTER | 105 | 2.9 | 723755.78 | 4774366.01 | 203.90 |
| INVERTER | 106 | 2.9 | 723806.03 | 4774346.36 | 203.90 |
| INVERTER | 107 | 2.9 | 723398.65 | 4774355.71 | 200.90 |
| INVERTER | 108 | 2.9 | 727021.91 | 4773931.05 | 225.48 |
| INVERTER | 109 | 2.9 | 726468.98 | 4772797.11 | 231.82 |
| INVERTER | 110 | 2.9 | 726989.16 | 4775821.79 | 213.80 |
| INVERTER | 111 | 2.9 | 726955.75 | 4776552.43 | 200.90 |
| INVERTER | 112 | 2.9 | 723437.03 | 4776466.23 | 194.11 |
| INVERTER | 113 | 2.9 | 723573.63 | 4776561.21 | 194.25 |
| INVERTER | 114 | 2.9 | 723877.01 | 4776569.96 | 194.77 |
| INVERTER | 115 | 2.9 | 723838.81 | 4776549.15 | 194.81 |
| INVERTER | 116 | 2.9 | 723364.58 | 4776073.24 | 198.84 |
| INVERTER | 117 | 2.9 | 723468.56 | 4776247.57 | 197.82 |
| INVERTER | 118 | 2.9 | 723087.78 | 4776037.45 | 197.90 |
| INVERTER | 119 | 2.9 | 722977.79 | 4776205.25 | 195.22 |
| INVERTER | 120 | 2.9 | 722278.72 | 4776115.19 | 196.20 |
| INVERTER | 121 | 2.9 | 722152.32 | 4775976.97 | 198.77 |

**Table 7-1.1: Modeled Sources Sources in the Cadna/A Model**

| Name | ID | Relative Source Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Source Height |
|---|---|---|---|---|---|
| | | | X | Y | Z |
| | | (m) | (m) | (m) | (m) |
| INVERTER | 122 | 2.9 | 723431.67 | 4775558.27 | 198.45 |
| INVERTER | 123 | 2.9 | 723390.62 | 4775600.47 | 197.88 |
| INVERTER | 124 | 2.9 | 723403.36 | 4775656.08 | 197.30 |
| INVERTER | 125 | 2.9 | 722131.13 | 4775610.50 | 206.90 |
| INVERTER | 126 | 2.9 | 722137.29 | 4775395.97 | 200.90 |
| INVERTER | 127 | 2.9 | 722278.00 | 4775325.67 | 200.90 |
| INVERTER | 128 | 2.9 | 722287.06 | 4775585.85 | 202.12 |
| INVERTER | 129 | 2.9 | 722546.23 | 4775572.75 | 199.80 |
| INVERTER | 130 | 2.9 | 722713.54 | 4775346.21 | 200.25 |
| INVERTER | 131 | 2.9 | 722046.93 | 4774868.56 | 203.90 |
| INVERTER | 132 | 2.9 | 722438.57 | 4774879.85 | 203.15 |
| INVERTER | 133 | 2.9 | 721785.11 | 4774828.98 | 203.90 |
| INVERTER | 134 | 2.9 | 722000.07 | 4774755.60 | 203.90 |
| INVERTER | 135 | 2.9 | 722185.01 | 4774850.67 | 204.36 |
| INVERTER | 136 | 2.9 | 722466.32 | 4774858.79 | 202.87 |
| INVERTER | 137 | 2.9 | 721560.64 | 4774457.17 | 202.73 |
| INVERTER | 138 | 2.9 | 721602.34 | 4774436.65 | 202.76 |
| INVERTER | 139 | 2.9 | 721938.82 | 4774446.36 | 203.90 |
| INVERTER | 140 | 2.9 | 722440.71 | 4774393.90 | 201.68 |
| INVERTER | 141 | 2.9 | 722488.19 | 4774379.14 | 200.95 |
| INVERTER | 142 | 2.9 | 723287.95 | 4774957.00 | 200.90 |
| INVERTER | 143 | 2.9 | 723266.41 | 4775076.45 | 200.90 |
| INVERTER | 144 | 2.9 | 723063.07 | 4775785.15 | 197.90 |
| INVERTER | 145 | 2.9 | 725504.40 | 4776801.86 | 204.87 |
| INVERTER | 146 | 2.9 | 724214.93 | 4776434.62 | 194.90 |
| INVERTER | 147 | 2.9 | 727212.08 | 4776747.10 | 201.82 |

# APPENDIX 7-A.2: LIST OF SOUND RECEPTORS

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 1 | 11.-1-39.2 | Non-Participating | Residential | 1.50 | 721444.24 | 4774819.36 | 199.50 |
| 2 | 11.-1-19.11 | Non-Participating | Residential | 1.50 | 721250.90 | 4775573.07 | 196.01 |
| 3 | 11.-1-19.11 | Non-Participating | Accessory | 1.50 | 721269.39 | 4775593.72 | 195.80 |
| 4 | 11.-1-25.21 | Non-Participating | Residential | 1.50 | 721358.43 | 4775598.79 | 195.87 |
| 5 | 11.-1-29.112 | Non-Participating | Residential | 1.50 | 721438.57 | 4775223.58 | 196.67 |
| 6 | 11.-1-81 | Non-Participating | Residential | 1.50 | 721445.68 | 4775152.10 | 196.99 |
| 7 | 11.-1-38 | Non-Participating | Accessory | 1.50 | 721453.28 | 4774741.89 | 199.50 |
| 8 | 11.-1-38 | Non-Participating | Residential | 1.50 | 721417.80 | 4774766.28 | 199.50 |
| 9 | 11.-1-16.121 | Non-Participating | Residential | 1.50 | 721348.94 | 4775222.99 | 196.70 |
| 10 | 11.-1-44 | Non-Participating | Residential | 1.50 | 721374.17 | 4774839.15 | 199.50 |
| 11 | 11.-1-44 | Non-Participating | Accessory | 1.50 | 721348.09 | 4774855.53 | 199.50 |
| 12 | 11.-1-41 | Non-Participating | Residential | 1.50 | 721436.97 | 4774870.99 | 199.50 |
| 13 | 11.-1-43 | Non-Participating | Non-Residential | 1.50 | 721396.72 | 4774939.06 | 199.50 |
| 14 | 11.-1-42.1 | Non-Participating | Residential | 1.50 | 721239.83 | 4775005.35 | 198.51 |
| 15 | 11.-1-42.2 | Non-Participating | Residential | 1.50 | 721398.19 | 4775073.21 | 198.48 |
| 16 | 11.-1-78 | Non-Participating | Residential | 1.50 | 720754.57 | 4775114.67 | 196.82 |
| 17 | 11.-1-15.121 | Non-Participating | Residential | 1.50 | 720947.49 | 4775125.92 | 196.79 |
| 18 | 11.-1-15.121 | Non-Participating | Accessory | 1.50 | 720976.10 | 4775129.79 | 196.78 |
| 19 | 11.-1-85.1 | Non-Participating | Residential | 1.50 | 721236.82 | 4775148.32 | 197.36 |
| 20 | 11.-1-16.122 | Non-Participating | Accessory | 1.50 | 721315.50 | 4775152.34 | 197.18 |
| 21 | 11.-1-16.122 | Non-Participating | Residential | 1.50 | 721298.18 | 4775150.69 | 197.23 |
| 22 | 11.-1-83 | Non-Participating | Residential | 1.50 | 721375.37 | 4775152.74 | 197.08 |
| 23 | 11.-1-29.2 | Non-Participating | Residential | 1.50 | 721496.48 | 4775161.42 | 196.62 |
| 24 | 11.-1-16.211 | Non-Participating | Accessory | 1.50 | 721014.61 | 4775158.26 | 196.55 |
| 25 | 11.-1-78 | Non-Participating | Accessory | 1.50 | 720778.82 | 4775157.13 | 196.50 |
| 26 | 11.-1-29.112 | Non-Participating | Accessory | 1.50 | 721463.82 | 4775197.97 | 196.50 |
| 27 | 11.-1-16.211 | Non-Participating | Residential | 1.50 | 721025.31 | 4775183.76 | 196.50 |
| 28 | 11.-1-15.112 | Non-Participating | Non-Residential | 1.50 | 720825.71 | 4775228.85 | 196.50 |
| 29 | 11.-1-28 | Non-Participating | Residential | 1.50 | 721418.14 | 4775276.00 | 197.41 |
| 30 | 11.-1-71 | Non-Participating | Accessory | 1.50 | 721296.49 | 4775304.70 | 198.12 |
| 31 | 11.-1-71 | Non-Participating | Residential | 1.50 | 721342.77 | 4775305.43 | 198.11 |
| 32 | 11.-1-17.1 | Non-Participating | Non-Residential | 1.50 | 721227.69 | 4775309.74 | 198.23 |
| 33 | 11.-1-84 | Non-Participating | Residential | 1.50 | 721402.66 | 4775323.35 | 197.74 |
| 34 | 11.-1-17.1 | Non-Participating | Non-Residential | 1.50 | 721131.80 | 4775317.09 | 196.50 |
| 35 | 11.-1-17.2 | Non-Participating | Residential | 1.50 | 721342.73 | 4775335.40 | 198.28 |
| 36 | 11.-1-29.111 | Non-Participating | Accessory | 1.50 | 721443.35 | 4775347.91 | 198.05 |
| 37 | 11.-1-17.2 | Non-Participating | Accessory | 1.50 | 721298.50 | 4775353.19 | 198.79 |
| 38 | 11.-1-29.111 | Non-Participating | Residential | 1.50 | 721388.89 | 4775368.01 | 198.62 |
| 39 | 11.-1-29.111 | Non-Participating | Accessory | 1.50 | 721440.08 | 4775410.12 | 199.23 |
| 40 | 11.-1-18 | Non-Participating | Accessory | 1.50 | 721306.80 | 4775410.63 | 198.95 |
| 41 | 11.-1-29.12 | Non-Participating | Residential | 1.50 | 721377.25 | 4775438.39 | 198.30 |
| 42 | 11.-1-18 | Non-Participating | Residential | 1.50 | 721300.63 | 4775439.01 | 197.54 |
| 43 | 11.-1-29.12 | Non-Participating | Accessory | 1.50 | 721413.15 | 4775451.30 | 198.45 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 44 | 11.-1-27.1 | Non-Participating | Accessory | 1.50 | 721374.16 | 4775475.95 | 197.24 |
| 45 | 11.-1-27.1 | Non-Participating | Residential | 1.50 | 721350.75 | 4775475.19 | 196.96 |
| 46 | 11.-1-26 | Non-Participating | Residential | 1.50 | 721357.27 | 4775527.28 | 196.50 |
| 47 | 11.-1-27.22 | Non-Participating | Accessory | 1.50 | 721398.16 | 4775548.20 | 196.50 |
| 48 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729935.68 | 4775831.79 | 218.12 |
| 49 | 17.-1-91.112 | Non-Participating | Residential | 1.50 | 729873.29 | 4775778.19 | 218.17 |
| 50 | 17.-1-92 | Non-Participating | Residential | 1.50 | 729939.14 | 4775783.38 | 219.09 |
| 51 | 17.-1-90.2 | Non-Participating | Residential | 1.50 | 729795.23 | 4775782.85 | 215.84 |
| 52 | 17.-1-91.2 | Non-Participating | Residential | 1.50 | 729842.04 | 4775784.65 | 217.32 |
| 53 | 17.-1-90.111 | Non-Participating | Residential | 1.50 | 729603.31 | 4775779.65 | 212.61 |
| 54 | 17.-1-94.21 | Non-Participating | Residential | 1.50 | 730075.76 | 4775797.65 | 221.55 |
| 55 | 17.-1-95 | Non-Participating | Residential | 1.50 | 730365.70 | 4775802.84 | 226.20 |
| 56 | 17.-1-91.112 | Non-Participating | Accessory | 1.50 | 729893.04 | 4775795.19 | 218.22 |
| 57 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729972.28 | 4775793.35 | 219.62 |
| 58 | 17.-1-93 | Non-Participating | Residential | 1.50 | 730016.13 | 4775783.53 | 220.66 |
| 59 | 17.-1-95 | Non-Participating | Accessory | 1.50 | 730379.01 | 4775819.54 | 225.17 |
| 60 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729959.85 | 4775796.99 | 219.29 |
| 61 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729980.23 | 4775804.03 | 219.55 |
| 62 | 17.-1-94.21 | Non-Participating | Accessory | 1.50 | 730066.40 | 4775823.90 | 220.74 |
| 63 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729956.49 | 4775822.15 | 218.67 |
| 64 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729981.86 | 4775824.75 | 219.08 |
| 65 | 17.-1-95 | Non-Participating | Accessory | 1.50 | 730375.50 | 4775839.13 | 224.07 |
| 66 | 17.-1-94.22 | Non-Participating | Residential | 1.50 | 730145.08 | 4775833.94 | 222.06 |
| 67 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729966.31 | 4775833.87 | 218.57 |
| 68 | 17.-1-92 | Non-Participating | Accessory | 1.50 | 729973.88 | 4775844.40 | 218.46 |
| 69 | 8.-1-28.2 | Non-Participating | Residential | 1.50 | 731081.44 | 4773946.96 | 233.24 |
| 70 | 8.-1-20.22 | Non-Participating | Residential | 1.50 | 730996.74 | 4773988.38 | 227.70 |
| 71 | 8.-1-31.1 | Non-Participating | Accessory | 1.50 | 730574.02 | 4773977.71 | 226.50 |
| 72 | 8.-1-31.2 | Non-Participating | Residential | 1.50 | 730629.86 | 4773989.17 | 226.50 |
| 73 | 8.-1-31.1 | Non-Participating | Residential | 1.50 | 730563.48 | 4773953.39 | 226.50 |
| 74 | 8.-1-27.21 | Non-Participating | Residential | 1.50 | 731225.66 | 4773949.56 | 238.50 |
| 75 | 8.-1-30.113 | Non-Participating | Residential | 1.50 | 730739.14 | 4773912.10 | 226.50 |
| 76 | 8.-1-27.22 | Non-Participating | Residential | 1.50 | 731148.87 | 4773927.79 | 237.75 |
| 77 | 8.-1-27.21 | Non-Participating | Accessory | 1.50 | 731226.04 | 4773924.41 | 238.50 |
| 78 | 8.-1-30.22 | Non-Participating | Non-Residential | 1.50 | 730685.44 | 4773898.92 | 226.50 |
| 79 | 8.-1-28.2 | Non-Participating | Accessory | 1.50 | 731084.36 | 4773905.89 | 235.93 |
| 80 | 8.-1-30.113 | Non-Participating | Accessory | 1.50 | 730748.42 | 4773894.85 | 226.50 |
| 81 | 8.-1-30.22 | Non-Participating | Non-Residential | 1.50 | 730670.77 | 4773870.77 | 226.50 |
| 82 | 19.-1-57 | Non-Participating | Residential | 1.50 | 725816.16 | 4771930.09 | 234.98 |
| 83 | --- | Non-Participating | Residential | 1.50 | 725514.51 | 4771917.72 | 228.44 |
| 84 | 19.-1-58 | Non-Participating | Residential | 1.50 | 725714.85 | 4771919.33 | 232.50 |
| 85 | 19.-1-59 | Non-Participating | Residential | 1.50 | 725657.11 | 4771913.93 | 231.56 |
| 86 | --- | Non-Participating | Accessory | 1.50 | 725662.02 | 4771855.59 | 231.48 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 87 | 10.-1-3 | Non-Participating | Residential | 1.50 | 725769.99 | 4771851.99 | 232.66 |
| 88 | 10.-1-4 | Non-Participating | Residential | 1.50 | 725809.57 | 4771853.60 | 233.26 |
| 89 | --- | Non-Participating | Residential | 1.50 | 725611.13 | 4771852.51 | 230.44 |
| 90 | 10.-1-5.11 | Non-Participating | Residential | 1.50 | 726091.65 | 4771857.51 | 234.42 |
| 91 | --- | Non-Participating | Accessory | 1.50 | 725621.01 | 4771841.29 | 230.62 |
| 92 | 10.-1-4 | Non-Participating | Accessory | 1.50 | 725835.99 | 4771836.53 | 233.01 |
| 93 | 10.-1-5.11 | Non-Participating | Accessory | 1.50 | 726098.64 | 4771836.29 | 234.12 |
| 94 | 10.-1-5.12 | Non-Participating | Residential | 1.50 | 726095.72 | 4771800.34 | 233.64 |
| 95 | --- | Non-Participating | Residential | 1.50 | 726042.91 | 4771681.08 | 232.50 |
| 96 | 19.-1-56 | Non-Participating | Non-Residential | 1.50 | 725961.99 | 4772079.10 | 238.50 |
| 97 | 19.-1-56 | Non-Participating | Non-Residential | 1.50 | 725970.83 | 4772128.09 | 237.53 |
| 98 | 19.-1-56 | Non-Participating | Non-Residential | 1.50 | 726019.41 | 4772128.47 | 237.01 |
| 99 | 19.-1-56 | Non-Participating | Non-Residential | 1.50 | 725992.24 | 4772099.64 | 237.70 |
| 100 | 19.-1-56 | Non-Participating | Non-Residential | 1.50 | 725987.40 | 4772062.89 | 238.23 |
| 101 | 19.-1-56 | Non-Participating | Non-Residential | 1.50 | 725967.74 | 4772050.36 | 238.50 |
| 102 | 19.-1-56 | Non-Participating | Residential | 1.50 | 725966.27 | 4772022.81 | 238.12 |
| 103 | 19.-1-57 | Non-Participating | Non-Residential | 1.50 | 725840.13 | 4771984.51 | 236.88 |
| 104 | 19.-1-57 | Non-Participating | Non-Residential | 1.50 | 725874.49 | 4771992.28 | 237.62 |
| 105 | 19.-1-57 | Non-Participating | Non-Residential | 1.50 | 725752.15 | 4771979.82 | 234.66 |
| 106 | 19.-1-57 | Non-Participating | Non-Residential | 1.50 | 725790.11 | 4771967.33 | 235.47 |
| 107 | 19.-1-57 | Non-Participating | Non-Residential | 1.50 | 725866.44 | 4771963.17 | 236.55 |
| 108 | 19.-1-57 | Non-Participating | Non-Residential | 1.50 | 725775.79 | 4771948.84 | 234.62 |
| 109 | --- | Non-Participating | Accessory | 1.50 | 725538.69 | 4771937.04 | 228.73 |
| 110 | 19.-1-58 | Non-Participating | Accessory | 1.50 | 725725.78 | 4771932.44 | 233.02 |
| 111 | 11.-1-33.1 | Non-Participating | Accessory | 1.50 | 722037.99 | 4775068.13 | 200.76 |
| 112 | 12.-1-32.112 | Non-Participating | Residential | 1.50 | 722372.96 | 4775085.15 | 202.50 |
| 113 | 11.-1-33.21 | Non-Participating | Residential | 1.50 | 722105.32 | 4775079.25 | 201.57 |
| 114 | 11.-1-33.1 | Non-Participating | Residential | 1.50 | 722025.70 | 4775078.79 | 200.38 |
| 115 | 12.-1-32.112 | Non-Participating | Residential | 1.50 | 722357.20 | 4775122.97 | 202.50 |
| 116 | 11.-1-34.1 | Non-Participating | Residential | 1.50 | 721750.54 | 4775111.42 | 199.50 |
| 117 | 11.-1-30.1 | Non-Participating | Residential | 1.50 | 721667.54 | 4775158.55 | 197.72 |
| 118 | 11.-1-31.2 | Non-Participating | Residential | 1.50 | 721885.31 | 4775169.22 | 199.50 |
| 119 | 12.-1-1.1 | Non-Participating | Residential | 1.50 | 722368.27 | 4775189.34 | 202.50 |
| 120 | 11.-1-30.1 | Non-Participating | Residential | 1.50 | 721630.11 | 4775174.75 | 196.97 |
| 121 | 11.-1-31.1 | Non-Participating | Residential | 1.50 | 721928.80 | 4775199.82 | 199.50 |
| 122 | 12.-1-1.1 | Non-Participating | Accessory | 1.50 | 722404.83 | 4775223.43 | 200.48 |
| 123 | 11.-1-33.1 | Non-Participating | Accessory | 1.50 | 722037.04 | 4775031.02 | 202.50 |
| 124 | 12.-1-32.21 | Non-Participating | Residential | 1.50 | 722281.08 | 4775095.14 | 204.06 |
| 125 | 11.-1-48 | Non-Participating | Accessory | 1.50 | 721078.68 | 4774155.57 | 208.50 |
| 126 | 11.-1-47 | Non-Participating | Residential | 1.50 | 721155.40 | 4774200.75 | 207.07 |
| 127 | 11.-1-37 | Non-Participating | Residential | 1.50 | 721394.91 | 4774690.71 | 199.50 |
| 128 | 11.-1-36.11 | Non-Participating | Accessory | 1.50 | 721302.43 | 4774267.18 | 205.50 |
| 129 | 11.-1-36.11 | Non-Participating | Residential | 1.50 | 721281.00 | 4774300.22 | 204.88 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 130 | 11.-1-45.1 | Non-Participating | Accessory | 1.50 | 721285.84 | 4774507.87 | 201.47 |
| 131 | 11.-1-35.11 | Participating | Residential | 1.50 | 721371.82 | 4774573.46 | 200.66 |
| 132 | 11.-1-45.1 | Non-Participating | Residential | 1.50 | 721278.64 | 4774584.27 | 199.73 |
| 133 | 11.-1-35.11 | Participating | Accessory | 1.50 | 721385.53 | 4774602.78 | 200.23 |
| 134 | 11.-1-37 | Non-Participating | Accessory | 1.50 | 721390.68 | 4774666.83 | 199.50 |
| 135 | 11.-1-49.11 | Non-Participating | Non-Residential | 1.50 | 720928.26 | 4774673.26 | 202.16 |
| 136 | 11.-1-48 | Non-Participating | Residential | 1.50 | 721047.53 | 4774140.06 | 208.77 |
| 137 | 9.-1-1.21 | Non-Participating | Accessory | 1.50 | 732065.75 | 4774185.23 | 221.59 |
| 138 | 8.-1-24 | Non-Participating | Accessory | 1.50 | 731770.33 | 4774166.36 | 232.42 |
| 139 | 8.-1-24 | Non-Participating | Accessory | 1.50 | 731844.73 | 4774155.77 | 229.70 |
| 140 | 9.-1-42.2 | Non-Participating | Residential | 1.50 | 732052.47 | 4774010.73 | 225.08 |
| 141 | 8.-1-25.1 | Non-Participating | Residential | 1.50 | 731884.92 | 4774007.98 | 225.64 |
| 142 | 9.-1-1.21 | Non-Participating | Residential | 1.50 | 732057.81 | 4774082.58 | 223.74 |
| 143 | 9.-1-1.112 | Non-Participating | Residential | 1.50 | 732187.46 | 4774094.18 | 224.50 |
| 144 | 8.-1-24 | Non-Participating | Accessory | 1.50 | 731740.75 | 4774118.87 | 232.50 |
| 145 | 8.-1-24 | Non-Participating | Residential | 1.50 | 731778.43 | 4774143.89 | 232.50 |
| 146 | 8.-1-24 | Non-Participating | Accessory | 1.50 | 731871.61 | 4774163.80 | 227.77 |
| 147 | 13.-1-13 | Non-Participating | Residential | 1.50 | 724194.25 | 4777091.81 | 193.50 |
| 148 | 13.-1-14 | Non-Participating | Accessory | 1.50 | 724299.94 | 4777458.61 | 193.50 |
| 149 | 13.-1-13 | Non-Participating | Accessory | 1.50 | 724185.00 | 4777109.99 | 193.50 |
| 150 | 6.-1-64 | Non-Participating | Residential | 1.50 | 723656.49 | 4773370.52 | 213.18 |
| 151 | 6.-1-35.112 | Non-Participating | Residential | 1.50 | 723726.55 | 4773352.67 | 214.31 |
| 152 | 6.-1-35.2 | Non-Participating | Accessory | 1.50 | 724070.64 | 4773332.05 | 214.50 |
| 153 | 6.-1-35.2 | Non-Participating | Residential | 1.50 | 724080.78 | 4773322.69 | 214.50 |
| 154 | 6.-1-36.2 | Non-Participating | Accessory | 1.50 | 723502.47 | 4773283.90 | 211.81 |
| 155 | 6.-1-36.2 | Non-Participating | Residential | 1.50 | 723487.51 | 4773282.37 | 211.60 |
| 156 | 6.-1-36.12 | Non-Participating | Residential | 1.50 | 723430.22 | 4773252.51 | 211.50 |
| 157 | 6.-1-16.1 | Non-Participating | Residential | 1.50 | 724139.27 | 4773265.70 | 214.50 |
| 158 | 6.-1-36.12 | Non-Participating | Accessory | 1.50 | 723457.81 | 4773245.31 | 211.50 |
| 159 | --- | Non-Participating | Residential | 1.50 | 723669.75 | 4773152.78 | 214.27 |
| 160 | --- | Non-Participating | Residential | 1.50 | 723679.00 | 4773047.54 | 214.50 |
| 161 | 6.-1-7.2 | Non-Participating | Accessory | 1.50 | 724067.38 | 4773657.56 | 217.50 |
| 162 | 6.-1-7.2 | Non-Participating | Residential | 1.50 | 724071.22 | 4773625.65 | 217.50 |
| 163 | 6.-1-35.12 | Non-Participating | Residential | 1.50 | 724068.17 | 4773563.24 | 217.37 |
| 164 | 6.-1-35.12 | Non-Participating | Accessory | 1.50 | 724072.06 | 4773531.72 | 215.83 |
| 165 | 6.-1-6.1 | Non-Participating | Accessory | 1.50 | 723805.76 | 4773506.95 | 214.50 |
| 166 | 6.-1-74 | Non-Participating | Residential | 1.50 | 723958.72 | 4773505.15 | 214.83 |
| 167 | 6.-1-6.1 | Non-Participating | Residential | 1.50 | 723835.19 | 4773501.33 | 214.50 |
| 168 | 6.-1-6.2 | Non-Participating | Residential | 1.50 | 723675.05 | 4773455.48 | 212.08 |
| 169 | 17.-1-2 | Non-Participating | Non-Residential | 1.50 | 729689.45 | 4776943.81 | 208.43 |
| 170 | 17.-1-2 | Non-Participating | Non-Residential | 1.50 | 729568.38 | 4776936.90 | 209.60 |
| 171 | 17.-1-2 | Non-Participating | Accessory | 1.50 | 729716.08 | 4776934.62 | 207.92 |
| 172 | 17.-1-2 | Non-Participating | Accessory | 1.50 | 729716.50 | 4776921.55 | 207.57 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 173 | 17.-1-2 | Non-Participating | Non-Residential | 1.50 | 729694.66 | 4776914.24 | 207.35 |
| 174 | 17.-1-2 | Non-Participating | Non-Residential | 1.50 | 729659.16 | 4776898.92 | 207.24 |
| 175 | 17.-1-2 | Non-Participating | Residential | 1.50 | 729710.98 | 4776892.58 | 206.82 |
| 176 | 17.-1-7.11 | Non-Participating | Accessory | 1.50 | 729792.48 | 4776868.17 | 205.09 |
| 177 | 17.-1-7.11 | Non-Participating | Accessory | 1.50 | 729784.19 | 4776852.06 | 204.74 |
| 178 | 17.-1-7.11 | Non-Participating | Residential | 1.50 | 729758.86 | 4776841.81 | 205.50 |
| 179 | 14.-2-53 | Non-Participating | Residential | 1.50 | 730341.31 | 4777505.17 | 217.52 |
| 180 | 14.-2-53 | Non-Participating | Residential | 1.50 | 730332.85 | 4777455.33 | 217.50 |
| 181 | 14.-2-34.111 | Non-Participating | Residential | 1.50 | 730419.48 | 4777448.31 | 219.89 |
| 182 | 14.-2-33 | Non-Participating | Residential | 1.50 | 730397.07 | 4777391.97 | 218.15 |
| 183 | 14.-2-32 | Non-Participating | Residential | 1.50 | 730282.34 | 4777353.86 | 217.50 |
| 184 | 14.-1-39 | Participating | Non-Residential | 1.50 | 730111.73 | 4777343.51 | 215.36 |
| 185 | 14.-1-40 | Non-Participating | Accessory | 1.50 | 730085.99 | 4777323.51 | 215.27 |
| 186 | 14.-1-40 | Non-Participating | Residential | 1.50 | 730068.30 | 4777289.94 | 215.62 |
| 187 | 14.-2-31 | Non-Participating | Residential | 1.50 | 730189.21 | 4777278.94 | 217.50 |
| 188 | 14.-2-31 | Non-Participating | Accessory | 1.50 | 730186.53 | 4777259.59 | 217.20 |
| 189 | 14.-1-41 | Non-Participating | Residential | 1.50 | 729728.59 | 4777228.39 | 213.99 |
| 190 | 14.-1-41 | Non-Participating | Residential | 1.50 | 729710.66 | 4777219.08 | 214.15 |
| 191 | 14.-2-28.1 | Non-Participating | Non-Residential | 1.50 | 730079.62 | 4777207.89 | 214.64 |
| 192 | 14.-2-28.1 | Non-Participating | Residential | 1.50 | 730047.50 | 4777204.44 | 214.50 |
| 193 | 14.-1-41 | Non-Participating | Non-Residential | 1.50 | 729733.65 | 4777198.30 | 214.50 |
| 194 | 14.-2-28.1 | Non-Participating | Non-Residential | 1.50 | 730099.69 | 4777191.30 | 215.01 |
| 195 | 14.-1-41 | Non-Participating | Non-Residential | 1.50 | 729644.42 | 4777117.94 | 214.50 |
| 196 | 14.-2-28.21 | Non-Participating | Residential | 1.50 | 729940.00 | 4777038.55 | 210.24 |
| 197 | 17.-1-6 | Non-Participating | Residential | 1.50 | 729792.79 | 4776992.77 | 210.89 |
| 198 | 14.-1-41 | Non-Participating | Accessory | 1.50 | 729702.44 | 4776987.79 | 210.55 |
| 199 | 17.-1-2 | Non-Participating | Non-Residential | 1.50 | 729622.79 | 4776958.51 | 210.29 |
| 200 | 17.-1-2 | Non-Participating | Non-Residential | 1.50 | 729666.00 | 4776974.56 | 210.25 |
| 201 | 14.-2-27 | Non-Participating | Accessory | 1.50 | 731567.15 | 4777414.03 | 213.40 |
| 202 | 14.-2-27 | Non-Participating | Accessory | 1.50 | 731605.97 | 4777413.55 | 212.55 |
| 203 | 14.-2-27 | Non-Participating | Accessory | 1.50 | 731538.36 | 4777429.80 | 213.25 |
| 204 | 14.-2-27 | Non-Participating | Residential | 1.50 | 731561.89 | 4777454.80 | 212.04 |
| 205 | 15.-1-38.12 | Non-Participating | Non-Residential | 1.50 | 732089.81 | 4777539.71 | 206.41 |
| 206 | 14.-2-24.11 | Non-Participating | Accessory | 1.50 | 731994.97 | 4777575.77 | 205.83 |
| 207 | 15.-1-38.12 | Non-Participating | Non-Residential | 1.50 | 732062.54 | 4777542.72 | 206.56 |
| 208 | 14.-2-24.11 | Non-Participating | Residential | 1.50 | 731942.16 | 4777535.65 | 207.81 |
| 209 | 19.-1-55.2 | Non-Participating | Residential | 1.50 | 726577.69 | 4773017.75 | 235.50 |
| 210 | 19.-1-54.2 | Non-Participating | Accessory | 1.50 | 726560.20 | 4772388.06 | 232.50 |
| 211 | 19.-1-54.12 | Non-Participating | Residential | 1.50 | 726570.29 | 4772515.35 | 232.50 |
| 212 | 19.-1-47 | Non-Participating | Residential | 1.50 | 726635.52 | 4772650.59 | 229.74 |
| 213 | 19.-1-67.1 | Non-Participating | Residential | 1.50 | 726490.56 | 4772612.30 | 228.85 |
| 214 | 19.-1-63.211 | Non-Participating | Accessory | 1.50 | 726579.11 | 4773092.73 | 233.62 |
| 215 | 19.-1-54.2 | Non-Participating | Residential | 1.50 | 726574.02 | 4772408.25 | 232.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 216 | 11.-1-21 | Non-Participating | Residential | 1.50 | 721203.78 | 4776139.38 | 192.03 |
| 217 | 11.-1-21 | Non-Participating | Accessory | 1.50 | 721229.97 | 4776127.31 | 192.15 |
| 218 | 11.-1-22.21 | Non-Participating | Residential | 1.50 | 721232.73 | 4776003.54 | 193.03 |
| 219 | 11.-1-22.1 | Non-Participating | Residential | 1.50 | 721253.19 | 4775886.45 | 193.50 |
| 220 | 11.-1-20 | Non-Participating | Residential | 1.50 | 721206.61 | 4775869.91 | 193.50 |
| 221 | 11.-1-24.2 | Non-Participating | Residential | 1.50 | 721281.29 | 4775855.13 | 193.50 |
| 222 | 11.-1-20 | Non-Participating | Residential | 1.50 | 721215.85 | 4775832.62 | 193.50 |
| 223 | 11.-1-24.2 | Non-Participating | Accessory | 1.50 | 721294.29 | 4775836.39 | 193.50 |
| 224 | 11.-1-25.21 | Non-Participating | Accessory | 1.50 | 721474.49 | 4775683.27 | 193.50 |
| 225 | --- | Non-Participating | Accessory | 1.50 | 728394.38 | 4773255.25 | 229.50 |
| 226 | 5.-1-24 | Non-Participating | Residential | 1.50 | 728200.73 | 4773243.88 | 230.24 |
| 227 | 19.-1-27.12 | Non-Participating | Accessory | 1.50 | 728009.35 | 4773247.32 | 234.82 |
| 228 | --- | Non-Participating | Accessory | 1.50 | 728338.03 | 4773178.70 | 229.50 |
| 229 | 19.-1-29 | Non-Participating | Residential | 1.50 | 727926.92 | 4773165.93 | 232.50 |
| 230 | 19.-1-28.12 | Non-Participating | Residential | 1.50 | 728027.10 | 4773175.59 | 231.27 |
| 231 | --- | Non-Participating | Residential | 1.50 | 728315.16 | 4773184.88 | 229.50 |
| 232 | 19.-1-28.2 | Non-Participating | Residential | 1.50 | 727991.09 | 4773175.48 | 232.15 |
| 233 | --- | Non-Participating | Residential | 1.50 | 728391.11 | 4773189.73 | 229.50 |
| 234 | --- | Non-Participating | Residential | 1.50 | 728354.93 | 4773185.77 | 229.50 |
| 235 | 19.-1-28.2 | Non-Participating | Accessory | 1.50 | 727966.32 | 4773178.80 | 232.52 |
| 236 | 19.-1-27.22 | Non-Participating | Residential | 1.50 | 727942.13 | 4773217.63 | 233.04 |
| 237 | 19.-1-27.21 | Non-Participating | Residential | 1.50 | 727894.54 | 4773215.39 | 232.50 |
| 238 | 19.-1-27.12 | Non-Participating | Residential | 1.50 | 727995.59 | 4773235.65 | 234.23 |
| 239 | 19.-1-25 | Non-Participating | Residential | 1.50 | 728097.66 | 4773244.28 | 232.86 |
| 240 | 19.-1-14.111 | Non-Participating | Non-Residential | 1.50 | 727879.59 | 4773929.12 | 225.37 |
| 241 | 19.-1-14.111 | Non-Participating | Residential | 1.50 | 727938.57 | 4773896.99 | 226.09 |
| 242 | 4.-1-30 | Non-Participating | Accessory | 1.50 | 728191.32 | 4773865.40 | 224.21 |
| 243 | 4.-1-32 | Non-Participating | Accessory | 1.50 | 728352.48 | 4773828.42 | 224.59 |
| 244 | 19.-1-13 | Non-Participating | Accessory | 1.50 | 728130.00 | 4773836.41 | 225.16 |
| 245 | 19.-1-14.111 | Non-Participating | Residential | 1.50 | 727941.82 | 4773829.14 | 226.50 |
| 246 | 4.-1-87 | Non-Participating | Residential | 1.50 | 728759.34 | 4773854.42 | 228.39 |
| 247 | 4.-1-86 | Non-Participating | Residential | 1.50 | 728736.11 | 4773849.86 | 228.53 |
| 248 | 4.-1-85 | Non-Participating | Residential | 1.50 | 728707.21 | 4773846.95 | 228.24 |
| 249 | 19.-1-14.111 | Non-Participating | Non-Residential | 1.50 | 727984.54 | 4773826.32 | 226.50 |
| 250 | 4.-1-78 | Non-Participating | Residential | 1.50 | 728650.16 | 4773838.05 | 227.46 |
| 251 | 4.-1-84 | Non-Participating | Residential | 1.50 | 728677.01 | 4773842.04 | 227.80 |
| 252 | 4.-1-76 | Non-Participating | Residential | 1.50 | 728595.08 | 4773831.83 | 226.72 |
| 253 | 4.-1-75 | Non-Participating | Residential | 1.50 | 728566.17 | 4773824.45 | 226.50 |
| 254 | 4.-1-35.1 | Non-Participating | Accessory | 1.50 | 728498.40 | 4773830.77 | 225.42 |
| 255 | 19.-1-16 | Non-Participating | Residential | 1.50 | 728045.32 | 4773810.50 | 226.34 |
| 256 | 19.-1-13 | Non-Participating | Residential | 1.50 | 728122.41 | 4773811.55 | 225.50 |
| 257 | 19.-1-16 | Non-Participating | Accessory | 1.50 | 728026.63 | 4773808.07 | 226.50 |
| 258 | 4.-1-36.1 | Non-Participating | Residential | 1.50 | 728539.39 | 4773820.25 | 226.47 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 259 | 19.-1-15 | Non-Participating | Residential | 1.50 | 728093.92 | 4773807.33 | 225.85 |
| 260 | 4.-1-30 | Non-Participating | Residential | 1.50 | 728194.37 | 4773807.03 | 224.77 |
| 261 | 4.-1-33.11 | Non-Participating | Residential | 1.50 | 728381.69 | 4773806.78 | 224.97 |
| 262 | 4.-1-32 | Non-Participating | Residential | 1.50 | 728319.88 | 4773805.84 | 224.68 |
| 263 | 4.-1-35.1 | Non-Participating | Residential | 1.50 | 728488.66 | 4773811.49 | 225.54 |
| 264 | 4.-1-33.2 | Non-Participating | Residential | 1.50 | 728409.47 | 4773804.84 | 225.16 |
| 265 | 4.-1-33.2 | Non-Participating | Accessory | 1.50 | 728426.57 | 4773805.28 | 225.35 |
| 266 | 4.-1-47 | Non-Participating | Residential | 1.50 | 728696.53 | 4773796.53 | 228.64 |
| 267 | 4.-1-48.2 | Non-Participating | Residential | 1.50 | 728747.55 | 4773802.94 | 229.39 |
| 268 | 4.-1-46 | Non-Participating | Residential | 1.50 | 728666.23 | 4773797.32 | 228.19 |
| 269 | 4.-1-48.1 | Non-Participating | Residential | 1.50 | 728722.77 | 4773798.50 | 229.00 |
| 270 | 4.-1-41 | Non-Participating | Residential | 1.50 | 728651.43 | 4773791.41 | 228.04 |
| 271 | 4.-1-40 | Non-Participating | Residential | 1.50 | 728619.33 | 4773789.32 | 227.57 |
| 272 | 4.-1-39 | Non-Participating | Residential | 1.50 | 728594.10 | 4773787.29 | 227.19 |
| 273 | 4.-1-38 | Non-Participating | Residential | 1.50 | 728563.13 | 4773784.48 | 226.73 |
| 274 | 4.-1-46 | Non-Participating | Accessory | 1.50 | 728679.05 | 4773782.34 | 228.50 |
| 275 | 4.-1-37.1 | Non-Participating | Accessory | 1.50 | 728501.08 | 4773773.75 | 226.12 |
| 276 | 4.-1-37.1 | Non-Participating | Residential | 1.50 | 728476.47 | 4773775.26 | 225.96 |
| 277 | 4.-1-40 | Non-Participating | Accessory | 1.50 | 728635.25 | 4773777.59 | 227.83 |
| 278 | 19.-1-20.1 | Non-Participating | Non-Residential | 1.50 | 727883.88 | 4773731.23 | 226.50 |
| 279 | 19.-1-20.1 | Non-Participating | Non-Residential | 1.50 | 727927.78 | 4773734.05 | 226.50 |
| 280 | 4.-1-37.2 | Non-Participating | Accessory | 1.50 | 728558.52 | 4773768.64 | 226.64 |
| 281 | 4.-1-37.2 | Non-Participating | Residential | 1.50 | 728530.84 | 4773763.16 | 226.50 |
| 282 | 4.-1-26 | Non-Participating | Residential | 1.50 | 728402.85 | 4773754.82 | 225.63 |
| 283 | 4.-1-42.11 | Non-Participating | Accessory | 1.50 | 728580.01 | 4773752.92 | 226.95 |
| 284 | 4.-1-27 | Non-Participating | Residential | 1.50 | 728385.09 | 4773738.65 | 225.72 |
| 285 | 4.-1-42.12 | Non-Participating | Residential | 1.50 | 728628.02 | 4773740.81 | 227.67 |
| 286 | 4.-1-24 | Non-Participating | Residential | 1.50 | 728467.97 | 4773737.61 | 226.13 |
| 287 | 4.-1-23 | Non-Participating | Residential | 1.50 | 728515.52 | 4773726.20 | 226.50 |
| 288 | 4.-1-27 | Non-Participating | Accessory | 1.50 | 728369.17 | 4773721.13 | 225.83 |
| 289 | 4.-1-49.1 | Non-Participating | Residential | 1.50 | 728747.07 | 4773729.22 | 229.43 |
| 290 | 4.-1-43.1 | Non-Participating | Residential | 1.50 | 728664.41 | 4773719.61 | 228.20 |
| 291 | 4.-1-25 | Non-Participating | Non-Residential | 1.50 | 728453.87 | 4773711.55 | 226.34 |
| 292 | 4.-1-45 | Non-Participating | Residential | 1.50 | 728691.05 | 4773715.22 | 228.49 |
| 293 | 4.-1-44 | Non-Participating | Residential | 1.50 | 728677.45 | 4773716.32 | 228.36 |
| 294 | 4.-1-23 | Non-Participating | Accessory | 1.50 | 728524.42 | 4773712.06 | 226.50 |
| 295 | 4.-1-27 | Non-Participating | Accessory | 1.50 | 728378.13 | 4773685.38 | 226.26 |
| 296 | 4.-1-20.2 | Non-Participating | Residential | 1.50 | 728646.09 | 4773685.75 | 227.71 |
| 297 | 4.-1-27 | Non-Participating | Accessory | 1.50 | 728374.01 | 4773664.03 | 226.47 |
| 298 | 4.-1-20.12 | Non-Participating | Residential | 1.50 | 728677.71 | 4773672.04 | 228.24 |
| 299 | 4.-1-20.112 | Non-Participating | Residential | 1.50 | 728712.58 | 4773661.19 | 229.11 |
| 300 | 4.-1-27 | Non-Participating | Accessory | 1.50 | 728386.78 | 4773642.22 | 226.50 |
| 301 | 4.-1-20.111 | Non-Participating | Non-Residential | 1.50 | 728756.34 | 4773625.69 | 229.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 302 | 4.-1-19.1 | Non-Participating | Non-Residential | 1.50 | 728708.41 | 4773516.20 | 230.30 |
| 303 | 4.-1-19.1 | Non-Participating | Residential | 1.50 | 728695.95 | 4773505.28 | 230.61 |
| 304 | 4.-1-19.1 | Non-Participating | Non-Residential | 1.50 | 728718.30 | 4773504.88 | 230.70 |
| 305 | --- | Non-Participating | Accessory | 1.50 | 728290.07 | 4773321.62 | 230.10 |
| 306 | --- | Non-Participating | Residential | 1.50 | 728271.85 | 4773304.24 | 230.65 |
| 307 | 19.-1-24 | Non-Participating | Residential | 1.50 | 728146.07 | 4773248.45 | 231.91 |
| 308 | --- | Non-Participating | Accessory | 1.50 | 728363.89 | 4773257.40 | 229.50 |
| 309 | 5.-1-25 | Non-Participating | Residential | 1.50 | 728235.69 | 4773254.34 | 230.02 |
| 310 | 8.-1-11 | Non-Participating | Residential | 1.50 | 730099.82 | 4774185.32 | 238.50 |
| 311 | 8.-1-8.122 | Non-Participating | Accessory | 1.50 | 729831.37 | 4774149.90 | 240.25 |
| 312 | 8.-1-10 | Non-Participating | Residential | 1.50 | 730073.71 | 4774167.28 | 238.50 |
| 313 | 8.-1-8.122 | Non-Participating | Residential | 1.50 | 729885.93 | 4774161.33 | 239.49 |
| 314 | 8.-1-81 | Non-Participating | Residential | 1.50 | 729948.86 | 4774191.54 | 238.50 |
| 315 | 8.-1-81 | Non-Participating | Accessory | 1.50 | 729964.60 | 4774214.21 | 238.50 |
| 316 | 8.-1-79 | Non-Participating | Residential | 1.50 | 730022.97 | 4774219.17 | 238.50 |
| 317 | 8.-1-12.112 | Non-Participating | Residential | 1.50 | 730197.71 | 4774255.36 | 237.37 |
| 318 | 8.-1-83 | Non-Participating | Residential | 1.50 | 730093.87 | 4774271.95 | 238.50 |
| 319 | 8.-1-83 | Non-Participating | Accessory | 1.50 | 730069.85 | 4774272.76 | 238.50 |
| 320 | 8.-1-12.21 | Non-Participating | Residential | 1.50 | 730292.58 | 4774295.99 | 234.41 |
| 321 | 8.-1-9.21 | Non-Participating | Residential | 1.50 | 730166.96 | 4774304.58 | 238.50 |
| 322 | 8.-1-9.21 | Non-Participating | Accessory | 1.50 | 730178.63 | 4774313.19 | 238.21 |
| 323 | 8.-1-12.21 | Non-Participating | Accessory | 1.50 | 730311.71 | 4774324.87 | 233.67 |
| 324 | 8.-1-9.22 | Non-Participating | Accessory | 1.50 | 730130.57 | 4774339.75 | 238.50 |
| 325 | 8.-1-13 | Non-Participating | Accessory | 1.50 | 730427.32 | 4774390.50 | 230.82 |
| 326 | 8.-1-13 | Non-Participating | Residential | 1.50 | 730431.30 | 4774406.08 | 230.66 |
| 327 | 8.-1-9.12 | Non-Participating | Residential | 1.50 | 730202.76 | 4774395.60 | 234.72 |
| 328 | 8.-1-9.11 | Non-Participating | Residential | 1.50 | 730331.04 | 4774403.28 | 232.25 |
| 329 | 8.-1-9.12 | Non-Participating | Accessory | 1.50 | 730239.35 | 4774406.89 | 233.50 |
| 330 | 8.-1-9.12 | Non-Participating | Accessory | 1.50 | 730347.35 | 4774431.73 | 231.54 |
| 331 | 8.-1-15 | Non-Participating | Residential | 1.50 | 730477.03 | 4774453.11 | 229.50 |
| 332 | 10.-1-15 | Non-Participating | Residential | 1.50 | 721609.74 | 4773171.40 | 218.13 |
| 333 | 10.-1-67.1 | Non-Participating | Accessory | 1.50 | 721321.17 | 4773187.22 | 220.50 |
| 334 | --- | Non-Participating | Non-Residential | 1.50 | 720868.96 | 4773220.33 | 231.92 |
| 335 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720922.80 | 4773225.66 | 229.22 |
| 336 | --- | Non-Participating | Accessory | 1.50 | 720831.62 | 4773220.06 | 232.46 |
| 337 | --- | Non-Participating | Residential | 1.50 | 720805.19 | 4773233.34 | 232.50 |
| 338 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720870.94 | 4773247.90 | 232.50 |
| 339 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720815.84 | 4773263.35 | 232.50 |
| 340 | 10.-1-7.1 | Non-Participating | Residential | 1.50 | 720799.40 | 4773295.74 | 231.75 |
| 341 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720868.33 | 4773286.94 | 232.50 |
| 342 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720925.21 | 4773283.11 | 231.08 |
| 343 | 10.-1-6 | Non-Participating | Residential | 1.50 | 720725.08 | 4773343.58 | 230.43 |
| 344 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720805.89 | 4773360.49 | 230.27 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 345 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720830.09 | 4773392.48 | 229.58 |
| 346 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720962.54 | 4773366.79 | 232.50 |
| 347 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 721084.54 | 4773448.39 | 232.36 |
| 348 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720972.79 | 4773515.15 | 229.20 |
| 349 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 721002.15 | 4773523.10 | 229.47 |
| 350 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720966.52 | 4773529.76 | 228.46 |
| 351 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720991.26 | 4773543.50 | 228.33 |
| 352 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 720913.01 | 4773481.56 | 229.07 |
| 353 | 10.-1-7.1 | Non-Participating | Non-Residential | 1.50 | 721138.64 | 4773700.27 | 217.61 |
| 354 | 10.-1-5.1 | Non-Participating | Non-Residential | 1.50 | 720720.85 | 4773796.44 | 218.49 |
| 355 | --- | Non-Participating | Accessory | 1.50 | 720864.31 | 4773077.64 | 229.90 |
| 356 | --- | Non-Participating | Accessory | 1.50 | 721003.46 | 4773026.27 | 229.00 |
| 357 | --- | Non-Participating | Residential | 1.50 | 720962.68 | 4773061.00 | 229.50 |
| 358 | --- | Non-Participating | Residential | 1.50 | 720901.30 | 4773073.10 | 229.50 |
| 359 | --- | Non-Participating | Residential | 1.50 | 720844.87 | 4773066.72 | 230.20 |
| 360 | --- | Non-Participating | Accessory | 1.50 | 720878.36 | 4773075.46 | 229.75 |
| 361 | 10.-1-67.1 | Non-Participating | Accessory | 1.50 | 721370.27 | 4773144.60 | 221.27 |
| 362 | 10.-1-9.2 | Non-Participating | Residential | 1.50 | 721404.49 | 4773146.11 | 220.89 |
| 363 | 10.-1-9.2 | Non-Participating | Accessory | 1.50 | 721419.92 | 4773148.02 | 220.66 |
| 364 | 10.-1-12 | Non-Participating | Residential | 1.50 | 721445.82 | 4773150.31 | 220.32 |
| 365 | 10.-1-67.1 | Non-Participating | Residential | 1.50 | 721324.33 | 4773144.58 | 221.52 |
| 366 | 10.-1-13 | Non-Participating | Residential | 1.50 | 721500.35 | 4773154.81 | 219.52 |
| 367 | 10.-1-14.1 | Non-Participating | Accessory | 1.50 | 721560.32 | 4773158.50 | 218.75 |
| 368 | 10.-1-14.1 | Non-Participating | Residential | 1.50 | 721533.78 | 4773159.83 | 219.03 |
| 369 | --- | Non-Participating | Accessory | 1.50 | 720766.00 | 4773133.50 | 231.14 |
| 370 | 10.-1-12 | Non-Participating | Accessory | 1.50 | 721440.75 | 4773165.18 | 220.08 |
| 371 | --- | Non-Participating | Residential | 1.50 | 720754.81 | 4773151.13 | 231.46 |
| 372 | 8.-1-8.111 | Non-Participating | Residential | 1.50 | 729283.10 | 4774405.12 | 222.42 |
| 373 | 8.-1-4 | Non-Participating | Residential | 1.50 | 729169.12 | 4774409.14 | 221.84 |
| 374 | 17.-1-64.11 | Non-Participating | Residential | 1.50 | 729197.60 | 4774518.61 | 220.50 |
| 375 | 17.-1-63.2 | Non-Participating | Residential | 1.50 | 729214.13 | 4774594.70 | 219.79 |
| 376 | 17.-1-46.12 | Non-Participating | Residential | 1.50 | 729291.50 | 4774638.73 | 219.62 |
| 377 | 17.-1-46.11 | Participating | Accessory | 1.50 | 729322.08 | 4774690.37 | 219.17 |
| 378 | 17.-1-62 | Non-Participating | Accessory | 1.50 | 729179.44 | 4774776.74 | 217.50 |
| 379 | 17.-1-62 | Non-Participating | Accessory | 1.50 | 729186.16 | 4774787.86 | 217.50 |
| 380 | 17.-1-62 | Non-Participating | Residential | 1.50 | 729202.42 | 4774793.43 | 217.50 |
| 381 | 17.-1-61 | Non-Participating | Residential | 1.50 | 729289.10 | 4774862.65 | 218.96 |
| 382 | 17.-1-61 | Non-Participating | Accessory | 1.50 | 729304.30 | 4774866.66 | 219.33 |
| 383 | 17.-1-60 | Non-Participating | Residential | 1.50 | 729284.04 | 4774898.68 | 217.92 |
| 384 | 17.-1-59 | Non-Participating | Accessory | 1.50 | 729298.83 | 4774952.89 | 218.76 |
| 385 | 8.-1-74 | Non-Participating | Residential | 1.50 | 729120.27 | 4774107.71 | 225.17 |
| 386 | 8.-1-75 | Non-Participating | Accessory | 1.50 | 729140.75 | 4774133.68 | 224.43 |
| 387 | 8.-1-75 | Non-Participating | Residential | 1.50 | 729139.66 | 4774149.00 | 224.14 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 388 | 8.-1-8.2 | Non-Participating | Accessory | 1.50 | 729195.42 | 4774246.39 | 223.50 |
| 389 | 8.-1-3 | Non-Participating | Non-Residential | 1.50 | 729111.26 | 4774260.01 | 223.50 |
| 390 | 8.-1-8.2 | Non-Participating | Residential | 1.50 | 729171.45 | 4774265.89 | 223.50 |
| 391 | 8.-1-7 | Non-Participating | Residential | 1.50 | 729124.31 | 4774296.74 | 223.50 |
| 392 | 8.-1-1.2 | Non-Participating | Residential | 1.50 | 728958.10 | 4774322.18 | 222.32 |
| 393 | 8.-1-5 | Non-Participating | Residential | 1.50 | 729202.17 | 4774357.05 | 223.47 |
| 394 | 8.-1-8.111 | Non-Participating | Accessory | 1.50 | 729207.99 | 4774380.18 | 222.86 |
| 395 | 8.-1-6 | Non-Participating | Residential | 1.50 | 729149.53 | 4774376.05 | 222.53 |
| 396 | 8.-1-8.111 | Non-Participating | Accessory | 1.50 | 729298.32 | 4774398.12 | 222.67 |
| 397 | 8.-1-4 | Non-Participating | Accessory | 1.50 | 729160.57 | 4774401.95 | 221.86 |
| 398 | --- | Non-Participating | Accessory | 1.50 | 732459.07 | 4775528.14 | 216.85 |
| 399 | --- | Non-Participating | Residential | 1.50 | 732457.26 | 4775495.72 | 217.98 |
| 400 | --- | Non-Participating | Residential | 1.50 | 732386.71 | 4775423.45 | 215.17 |
| 401 | --- | Non-Participating | Residential | 1.50 | 732442.88 | 4775400.98 | 216.62 |
| 402 | --- | Non-Participating | Accessory | 1.50 | 732453.65 | 4775378.60 | 216.05 |
| 403 | --- | Non-Participating | Residential | 1.50 | 732426.96 | 4775364.97 | 214.91 |
| 404 | --- | Non-Participating | Accessory | 1.50 | 732448.28 | 4775334.30 | 214.88 |
| 405 | 16.-1-31.2 | Non-Participating | Residential | 1.50 | 726469.31 | 4774847.53 | 215.67 |
| 406 | 19.-1-60.1 | Non-Participating | Residential | 1.50 | 725376.78 | 4773605.51 | 220.07 |
| 407 | 19.-1-61.12 | Non-Participating | Accessory | 1.50 | 725663.45 | 4773636.83 | 220.50 |
| 408 | 19.-1-2.1 | Non-Participating | Non-Residential | 1.50 | 725986.23 | 4773842.99 | 220.50 |
| 409 | 19.-1-61.2 | Non-Participating | Accessory | 1.50 | 725930.90 | 4773651.83 | 220.50 |
| 410 | 19.-1-61.111 | Non-Participating | Residential | 1.50 | 725730.08 | 4773652.04 | 220.50 |
| 411 | 19.-1-62 | Non-Participating | Residential | 1.50 | 725801.60 | 4773667.29 | 220.50 |
| 412 | 19.-1-61.2 | Non-Participating | Residential | 1.50 | 725923.56 | 4773684.66 | 220.50 |
| 413 | 19.-1-1.112 | Non-Participating | Residential | 1.50 | 725519.84 | 4773684.95 | 220.50 |
| 414 | 19.-1-1.111 | Non-Participating | Residential | 1.50 | 725564.14 | 4773712.43 | 220.50 |
| 415 | 19.-1-1.2 | Non-Participating | Residential | 1.50 | 725807.21 | 4773736.35 | 220.50 |
| 416 | 19.-1-3 | Non-Participating | Residential | 1.50 | 725907.67 | 4773755.90 | 220.50 |
| 417 | 19.-1-2.2 | Non-Participating | Residential | 1.50 | 725996.58 | 4773793.92 | 220.50 |
| 418 | 19.-1-61.12 | Non-Participating | Residential | 1.50 | 725684.35 | 4773634.06 | 220.50 |
| 419 | 19.-1-4 | Non-Participating | Residential | 1.50 | 726514.90 | 4774178.67 | 219.64 |
| 420 | 4.-1-31 | Non-Participating | Non-Residential | 1.50 | 728326.58 | 4774203.34 | 221.36 |
| 421 | 8.-1-22.2 | Non-Participating | Residential | 1.50 | 731217.87 | 4774599.79 | 222.51 |
| 422 | 8.-1-22.111 | Non-Participating | Residential | 1.50 | 731132.41 | 4774605.26 | 223.84 |
| 423 | 12.-1-31.1 | Non-Participating | Accessory | 1.50 | 722933.74 | 4775093.05 | 202.50 |
| 424 | 12.-1-31.1 | Non-Participating | Residential | 1.50 | 722922.89 | 4775148.12 | 202.50 |
| 425 | 12.-1-65.11 | Participating | Accessory | 1.50 | 722477.47 | 4775194.28 | 202.36 |
| 426 | 12.-1-66 | Non-Participating | Residential | 1.50 | 722620.69 | 4775203.20 | 201.97 |
| 427 | 12.-1-65.11 | Participating | Accessory | 1.50 | 722498.04 | 4775200.18 | 202.50 |
| 428 | 12.-1-3.112 | Non-Participating | Residential | 1.50 | 722939.56 | 4775217.32 | 200.98 |
| 429 | 12.-1-64.1 | Non-Participating | Residential | 1.50 | 722583.77 | 4775206.59 | 201.88 |
| 430 | 12.-1-3.112 | Non-Participating | Accessory | 1.50 | 722976.50 | 4775220.38 | 200.87 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 431 | 12.-1-65.11 | Participating | Accessory | 1.50 | 722676.55 | 4775207.64 | 201.81 |
| 432 | 12.-1-65.11 | Participating | Residential | 1.50 | 722537.30 | 4775207.26 | 202.14 |
| 433 | 12.-1-3.112 | Non-Participating | Accessory | 1.50 | 722960.11 | 4775223.55 | 200.77 |
| 434 | 12.-1-3.211 | Non-Participating | Residential | 1.50 | 722896.41 | 4775222.88 | 201.60 |
| 435 | 12.-1-62.11 | Non-Participating | Non-Residential | 1.50 | 722674.87 | 4775645.70 | 202.50 |
| 436 | 17.-1-94.21 | Non-Participating | Accessory | 1.50 | 730076.53 | 4775910.90 | 218.43 |
| 437 | 17.-1-13.2 | Non-Participating | Accessory | 1.50 | 729712.50 | 4776697.22 | 206.02 |
| 438 | 17.-1-13.2 | Non-Participating | Residential | 1.50 | 729643.61 | 4776671.50 | 205.77 |
| 439 | 17.-1-8 | Non-Participating | Residential | 1.50 | 729570.88 | 4776598.02 | 205.50 |
| 440 | 17.-1-8 | Non-Participating | Accessory | 1.50 | 729612.99 | 4776580.73 | 206.12 |
| 441 | 16.-1-17 | Non-Participating | Residential | 1.50 | 728380.62 | 4774794.38 | 220.50 |
| 442 | 4.-1-31 | Non-Participating | Non-Residential | 1.50 | 728310.48 | 4774210.75 | 221.27 |
| 443 | 16.-1-16 | Non-Participating | Residential | 1.50 | 728476.10 | 4774926.24 | 220.50 |
| 444 | 19.-1-39 | Non-Participating | Residential | 1.50 | 728141.22 | 4773158.51 | 229.50 |
| 445 | 19.-1-28.11 | Non-Participating | Residential | 1.50 | 728079.16 | 4773163.48 | 230.30 |
| 446 | --- | Non-Participating | Residential | 1.50 | 728281.13 | 4773159.53 | 229.50 |
| 447 | --- | Non-Participating | Accessory | 1.50 | 728290.21 | 4773137.67 | 229.50 |
| 448 | --- | Non-Participating | Accessory | 1.50 | 728281.31 | 4773088.51 | 229.50 |
| 449 | --- | Non-Participating | Accessory | 1.50 | 728364.95 | 4772504.73 | 243.16 |
| 450 | --- | Non-Participating | Accessory | 1.50 | 728269.85 | 4772493.90 | 240.46 |
| 451 | --- | Non-Participating | Residential | 1.50 | 728356.64 | 4772472.10 | 244.50 |
| 452 | --- | Non-Participating | Residential | 1.50 | 728290.45 | 4772463.79 | 242.26 |
| 453 | 19.-1-34 | Non-Participating | Residential | 1.50 | 728097.71 | 4772454.49 | 239.05 |
| 454 | 19.-1-33 | Non-Participating | Residential | 1.50 | 728154.49 | 4772456.41 | 239.92 |
| 455 | 17.-1-33.1 | Non-Participating | Accessory | 1.50 | 731369.41 | 4774854.14 | 231.90 |
| 456 | 8.-1-20.211 | Non-Participating | Residential | 1.50 | 731052.54 | 4774154.81 | 226.50 |
| 457 | 8.-1-20.211 | Non-Participating | Accessory | 1.50 | 731061.29 | 4774198.28 | 221.98 |
| 458 | 8.-1-20.112 | Non-Participating | Residential | 1.50 | 731034.22 | 4774322.34 | 223.50 |
| 459 | 8.-1-20.121 | Non-Participating | Residential | 1.50 | 731025.02 | 4774380.84 | 223.50 |
| 460 | 8.-1-21 | Non-Participating | Residential | 1.50 | 731243.37 | 4774403.63 | 220.50 |
| 461 | 8.-1-20.121 | Non-Participating | Accessory | 1.50 | 731025.19 | 4774411.39 | 223.50 |
| 462 | 8.-1-21 | Non-Participating | Residential | 1.50 | 731257.63 | 4774430.58 | 220.69 |
| 463 | 8.-1-20.121 | Non-Participating | Accessory | 1.50 | 731012.57 | 4774420.79 | 223.47 |
| 464 | 8.-1-20.121 | Non-Participating | Residential | 1.50 | 731065.40 | 4774458.36 | 222.19 |
| 465 | 8.-1-16 | Non-Participating | Residential | 1.50 | 730540.74 | 4774482.22 | 229.50 |
| 466 | 8.-1-17 | Non-Participating | Residential | 1.50 | 730574.06 | 4774504.41 | 229.50 |
| 467 | 8.-1-22.2 | Non-Participating | Accessory | 1.50 | 731202.90 | 4774588.48 | 222.39 |
| 468 | 8.-1-20.111 | Non-Participating | Residential | 1.50 | 730976.46 | 4774609.09 | 226.73 |
| 469 | 17.-1-29 | Non-Participating | Residential | 1.50 | 731287.34 | 4774632.13 | 223.56 |
| 470 | 17.-1-33.2 | Non-Participating | Accessory | 1.50 | 731347.46 | 4774855.54 | 231.72 |
| 471 | 17.-1-43 | Non-Participating | Residential | 1.50 | 730671.92 | 4774630.30 | 232.50 |
| 472 | 17.-1-43 | Non-Participating | Accessory | 1.50 | 730693.81 | 4774643.44 | 232.50 |
| 473 | 17.-1-28 | Non-Participating | Residential | 1.50 | 731345.22 | 4774667.44 | 224.35 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 474 | 17.-1-42.1 | Non-Participating | Residential | 1.50 | 730798.58 | 4774651.01 | 232.50 |
| 475 | 17.-1-44 | Non-Participating | Accessory | 1.50 | 730826.13 | 4774659.81 | 232.50 |
| 476 | 17.-1-44 | Non-Participating | Residential | 1.50 | 730850.15 | 4774664.26 | 232.50 |
| 477 | 17.-1-35 | Participating | Residential | 1.50 | 730939.96 | 4774668.60 | 230.59 |
| 478 | 17.-1-42.2 | Non-Participating | Non-Residential | 1.50 | 730840.92 | 4774685.18 | 232.50 |
| 479 | 17.-1-31 | Non-Participating | Residential | 1.50 | 731190.60 | 4774696.78 | 227.15 |
| 480 | 17.-1-32 | Non-Participating | Residential | 1.50 | 731233.86 | 4774711.91 | 227.72 |
| 481 | 17.-1-35 | Participating | Accessory | 1.50 | 730930.98 | 4774714.18 | 232.50 |
| 482 | 17.-1-32 | Non-Participating | Accessory | 1.50 | 731253.03 | 4774745.07 | 228.44 |
| 483 | 17.-1-32 | Non-Participating | Accessory | 1.50 | 731251.55 | 4774765.45 | 229.05 |
| 484 | 17.-1-26 | Non-Participating | Residential | 1.50 | 731410.23 | 4774783.16 | 229.44 |
| 485 | 17.-1-33.2 | Non-Participating | Residential | 1.50 | 731355.45 | 4774819.89 | 230.74 |
| 486 | 17.-1-33.2 | Non-Participating | Accessory | 1.50 | 731359.73 | 4774839.36 | 231.37 |
| 487 | 17.-1-33.1 | Non-Participating | Residential | 1.50 | 731400.62 | 4774848.49 | 232.22 |
| 488 | 16.-1-1.111 | Non-Participating | Accessory | 1.50 | 725234.31 | 4775532.24 | 209.47 |
| 489 | 16.-1-24 | Non-Participating | Accessory | 1.50 | 725509.28 | 4775673.40 | 214.15 |
| 490 | 16.-1-24 | Non-Participating | Residential | 1.50 | 725481.55 | 4775646.09 | 214.50 |
| 491 | 16.-1-1.111 | Non-Participating | Non-Residential | 1.50 | 725265.09 | 4775567.22 | 207.77 |
| 492 | 12.-1-7 | Non-Participating | Accessory | 1.50 | 725153.09 | 4775524.56 | 206.40 |
| 493 | 16.-1-1.12 | Non-Participating | Residential | 1.50 | 725609.06 | 4775531.37 | 204.95 |
| 494 | 16.-1-2.1 | Non-Participating | Residential | 1.50 | 726000.27 | 4775543.61 | 209.72 |
| 495 | 16.-1-1.111 | Non-Participating | Accessory | 1.50 | 725235.84 | 4775499.02 | 211.50 |
| 496 | 12.-1-7 | Non-Participating | Residential | 1.50 | 725155.47 | 4775492.08 | 209.44 |
| 497 | 19.-1-8 | Non-Participating | Residential | 1.50 | 726499.43 | 4773815.63 | 220.69 |
| 498 | 19.-1-9 | Participating | Non-Residential | 1.50 | 726814.88 | 4773836.40 | 226.12 |
| 499 | 19.-1-63.211 | Non-Participating | Residential | 1.50 | 726578.49 | 4773124.46 | 232.46 |
| 500 | 19.-1-64.2 | Non-Participating | Residential | 1.50 | 726740.59 | 4773733.14 | 226.50 |
| 501 | 19.-1-64.2 | Non-Participating | Residential | 1.50 | 726738.21 | 4773745.37 | 226.50 |
| 502 | 19.-1-64.12 | Non-Participating | Residential | 1.50 | 726811.30 | 4773727.78 | 226.71 |
| 503 | 19.-1-64.112 | Non-Participating | Residential | 1.50 | 726884.80 | 4773761.13 | 227.07 |
| 504 | 19.-1-7.1 | Non-Participating | Residential | 1.50 | 726556.95 | 4773805.94 | 221.65 |
| 505 | 16.-1-11.2 | Non-Participating | Residential | 1.50 | 728404.50 | 4776021.03 | 214.26 |
| 506 | 16.-1-11.2 | Non-Participating | Accessory | 1.50 | 728362.30 | 4776009.96 | 213.77 |
| 507 | 16.-1-13.21 | Non-Participating | Non-Residential | 1.50 | 728003.86 | 4775843.89 | 213.81 |
| 508 | 17.-1-79.2 | Non-Participating | Residential | 1.50 | 728471.87 | 4776377.38 | 206.40 |
| 509 | 17.-1-79.2 | Non-Participating | Accessory | 1.50 | 728493.76 | 4776369.51 | 206.76 |
| 510 | 17.-1-79.12 | Non-Participating | Residential | 1.50 | 728475.58 | 4776335.38 | 207.61 |
| 511 | 17.-1-79.12 | Non-Participating | Accessory | 1.50 | 728502.51 | 4776327.20 | 208.04 |
| 512 | 17.-1-39.1 | Non-Participating | Accessory | 1.50 | 731206.74 | 4775796.06 | 216.60 |
| 513 | 17.-1-36.12 | Non-Participating | Accessory | 1.50 | 731376.82 | 4775356.50 | 217.46 |
| 514 | 17.-1-36.2 | Non-Participating | Accessory | 1.50 | 731356.46 | 4775409.97 | 216.49 |
| 515 | 17.-1-39.1 | Non-Participating | Accessory | 1.50 | 731168.36 | 4775777.44 | 217.50 |
| 516 | 17.-1-39.1 | Non-Participating | Residential | 1.50 | 731141.44 | 4775781.92 | 217.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 517 | 17.-1-40.2 | Non-Participating | Residential | 1.50 | 730784.71 | 4775773.60 | 228.94 |
| 518 | 17.-1-14.1 | Non-Participating | Residential | 1.50 | 731188.19 | 4775834.08 | 215.86 |
| 519 | 13.-1-72 | Non-Participating | Accessory | 1.50 | 725569.76 | 4776872.88 | 205.50 |
| 520 | 13.-1-72 | Non-Participating | Residential | 1.50 | 725568.18 | 4776896.20 | 205.65 |
| 521 | 13.-1-72 | Non-Participating | Accessory | 1.50 | 725574.42 | 4776911.93 | 206.13 |
| 522 | 13.-1-66.2 | Non-Participating | Residential | 1.50 | 725799.55 | 4776942.37 | 207.61 |
| 523 | 13.-1-66.2 | Non-Participating | Accessory | 1.50 | 725808.59 | 4776944.61 | 207.62 |
| 524 | 13.-1-69.2 | Non-Participating | Accessory | 1.50 | 725732.74 | 4776849.55 | 202.63 |
| 525 | 13.-1-70 | Non-Participating | Residential | 1.50 | 725659.02 | 4776858.18 | 205.87 |
| 526 | 13.-1-69.1 | Non-Participating | Residential | 1.50 | 725694.41 | 4776864.47 | 205.79 |
| 527 | 13.-1-69.2 | Non-Participating | Residential | 1.50 | 725745.37 | 4776873.27 | 205.50 |
| 528 | 6.-1-1 | Non-Participating | Residential | 1.50 | 722308.67 | 4773252.42 | 212.09 |
| 529 | 10.-1-17.2 | Non-Participating | Accessory | 1.50 | 721903.48 | 4773263.52 | 214.33 |
| 530 | --- | Non-Participating | Residential | 1.50 | 722286.55 | 4772992.47 | 213.92 |
| 531 | --- | Non-Participating | Non-Residential | 1.50 | 721753.74 | 4773011.44 | 219.44 |
| 532 | --- | Non-Participating | Accessory | 1.50 | 722498.05 | 4773124.70 | 208.70 |
| 533 | --- | Non-Participating | Residential | 1.50 | 722488.87 | 4773133.79 | 208.59 |
| 534 | 10.-1-18 | Non-Participating | Accessory | 1.50 | 721826.78 | 4773173.84 | 216.03 |
| 535 | 10.-1-19 | Non-Participating | Residential | 1.50 | 721951.02 | 4773179.47 | 216.93 |
| 536 | 10.-1-18 | Non-Participating | Residential | 1.50 | 721810.59 | 4773174.89 | 216.21 |
| 537 | 10.-1-17.2 | Non-Participating | Residential | 1.50 | 721888.23 | 4773225.02 | 215.10 |
| 538 | 6.-1-1 | Non-Participating | Accessory | 1.50 | 722281.84 | 4773247.03 | 212.70 |
| 539 | 17.-1-83 | Non-Participating | Residential | 1.50 | 729247.86 | 4776115.16 | 211.58 |
| 540 | 17.-1-83 | Non-Participating | Accessory | 1.50 | 729315.91 | 4776113.39 | 210.00 |
| 541 | 17.-1-73.22 | Non-Participating | Accessory | 1.50 | 729158.90 | 4776108.92 | 216.40 |
| 542 | 17.-1-73.22 | Non-Participating | Residential | 1.50 | 729135.55 | 4776074.64 | 216.26 |
| 543 | 17.-1-84.1 | Non-Participating | Residential | 1.50 | 729223.99 | 4776058.44 | 211.66 |
| 544 | 17.-1-84.1 | Non-Participating | Accessory | 1.50 | 729240.45 | 4776056.27 | 211.19 |
| 545 | 17.-1-87.1 | Non-Participating | Accessory | 1.50 | 729115.25 | 4775737.87 | 210.50 |
| 546 | 17.-1-87.1 | Non-Participating | Residential | 1.50 | 729179.94 | 4775742.74 | 211.50 |
| 547 | 17.-1-89 | Non-Participating | Accessory | 1.50 | 729271.75 | 4775753.04 | 211.50 |
| 548 | 17.-1-89 | Non-Participating | Residential | 1.50 | 729299.49 | 4775753.64 | 211.38 |
| 549 | 17.-1-90.111 | Non-Participating | Residential | 1.50 | 729582.03 | 4775768.26 | 212.29 |
| 550 | 17.-1-86 | Non-Participating | Residential | 1.50 | 729133.41 | 4775868.04 | 209.96 |
| 551 | 17.-1-68.1 | Non-Participating | Non-Residential | 1.50 | 728771.76 | 4775056.94 | 217.90 |
| 552 | 16.-1-8.12 | Non-Participating | Residential | 1.50 | 726869.96 | 4776294.50 | 203.03 |
| 553 | 16.-1-7.111 | Non-Participating | Residential | 1.50 | 726795.81 | 4775870.01 | 209.48 |
| 554 | 17.-1-85.12 | Non-Participating | Residential | 1.50 | 729165.74 | 4775920.62 | 210.83 |
| 555 | 17.-1-85.12 | Non-Participating | Accessory | 1.50 | 729224.25 | 4775920.16 | 209.76 |
| 556 | 17.-1-88 | Non-Participating | Non-Residential | 1.50 | 729459.68 | 4776418.62 | 208.15 |
| 557 | 17.-1-5 | Non-Participating | Residential | 1.50 | 729532.60 | 4776634.43 | 205.50 |
| 558 | 17.-1-3 | Non-Participating | Accessory | 1.50 | 729486.29 | 4776603.61 | 205.50 |
| 559 | 17.-1-3 | Non-Participating | Accessory | 1.50 | 729495.94 | 4776594.68 | 205.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 560 | 17.-1-3 | Non-Participating | Residential | 1.50 | 729480.90 | 4776581.53 | 205.50 |
| 561 | 17.-1-10 | Non-Participating | Non-Residential | 1.50 | 729547.78 | 4776575.33 | 205.50 |
| 562 | 17.-1-12 | Non-Participating | Non-Residential | 1.50 | 729513.20 | 4776527.80 | 205.50 |
| 563 | 17.-1-12 | Non-Participating | Non-Residential | 1.50 | 729552.77 | 4776541.07 | 205.50 |
| 564 | 17.-1-82.1 | Non-Participating | Accessory | 1.50 | 729402.74 | 4776521.91 | 205.57 |
| 565 | 17.-1-82.1 | Non-Participating | Residential | 1.50 | 729416.96 | 4776511.63 | 205.87 |
| 566 | 17.-1-88 | Non-Participating | Non-Residential | 1.50 | 729456.51 | 4776469.72 | 206.39 |
| 567 | 17.-1-5 | Non-Participating | Accessory | 1.50 | 729535.27 | 4776657.31 | 205.50 |
| 568 | 17.-1-80.12 | Non-Participating | Accessory | 1.50 | 729297.10 | 4776416.65 | 207.85 |
| 569 | 17.-1-88 | Non-Participating | Residential | 1.50 | 729418.72 | 4776407.16 | 208.50 |
| 570 | 17.-1-80.12 | Non-Participating | Residential | 1.50 | 729329.21 | 4776384.95 | 208.50 |
| 571 | 17.-1-88 | Non-Participating | Non-Residential | 1.50 | 729484.30 | 4776348.78 | 207.11 |
| 572 | 17.-1-80.212 | Non-Participating | Residential | 1.50 | 729296.32 | 4776304.42 | 209.94 |
| 573 | 17.-1-84.1 | Non-Participating | Accessory | 1.50 | 729253.07 | 4776047.05 | 210.82 |
| 574 | 17.-1-85.11 | Non-Participating | Residential | 1.50 | 729198.60 | 4775966.03 | 211.50 |
| 575 | --- | Non-Participating | Non-Residential | 1.50 | 730640.33 | 4778734.63 | 194.31 |
| 576 | --- | Non-Participating | Non-Residential | 1.50 | 730577.26 | 4778724.35 | 193.53 |
| 577 | --- | Non-Participating | Non-Residential | 1.50 | 730749.90 | 4778648.39 | 196.15 |
| 578 | --- | Non-Participating | Non-Residential | 1.50 | 730791.05 | 4778645.62 | 196.26 |
| 579 | --- | Non-Participating | Non-Residential | 1.50 | 730702.30 | 4778755.53 | 194.98 |
| 580 | 17.-1-69 | Participating | Residential | 1.50 | 729070.89 | 4775527.66 | 214.50 |
| 581 | 17.-1-69 | Participating | Accessory | 1.50 | 728982.16 | 4775530.76 | 213.66 |
| 582 | 17.-1-49.1 | Participating | Residential | 1.50 | 729130.35 | 4775552.56 | 214.50 |
| 583 | 17.-1-70 | Non-Participating | Residential | 1.50 | 729065.00 | 4775607.16 | 213.39 |
| 584 | 17.-1-70 | Non-Participating | Accessory | 1.50 | 729046.02 | 4775614.61 | 212.85 |
| 585 | 17.-1-69 | Participating | Accessory | 1.50 | 729040.17 | 4775656.74 | 211.86 |
| 586 | 17.-1-71 | Non-Participating | Residential | 1.50 | 729054.70 | 4775670.07 | 211.83 |
| 587 | 17.-1-50 | Non-Participating | Accessory | 1.50 | 729309.24 | 4775681.35 | 212.36 |
| 588 | 17.-1-51 | Non-Participating | Residential | 1.50 | 729105.72 | 4775701.33 | 211.50 |
| 589 | 17.-1-50 | Non-Participating | Residential | 1.50 | 729277.00 | 4775709.66 | 212.02 |
| 590 | 17.-1-90.111 | Non-Participating | Accessory | 1.50 | 729573.57 | 4775797.71 | 211.80 |
| 591 | 17.-1-73.1 | Non-Participating | Residential | 1.50 | 729051.03 | 4775832.73 | 211.01 |
| 592 | 17.-1-86 | Non-Participating | Accessory | 1.50 | 729139.87 | 4775850.78 | 209.38 |
| 593 | 17.-1-56 | Non-Participating | Accessory | 1.50 | 729278.83 | 4775036.56 | 217.66 |
| 594 | 17.-1-68.2 | Non-Participating | Accessory | 1.50 | 729123.43 | 4775043.55 | 216.66 |
| 595 | 17.-1-87.2 | Non-Participating | Residential | 1.50 | 729244.54 | 4775762.90 | 211.42 |
| 596 | 17.-1-68.2 | Non-Participating | Residential | 1.50 | 729137.86 | 4775072.56 | 215.96 |
| 597 | 17.-1-55 | Non-Participating | Residential | 1.50 | 729246.56 | 4775114.00 | 216.59 |
| 598 | 17.-1-54 | Non-Participating | Accessory | 1.50 | 729246.50 | 4775198.12 | 215.86 |
| 599 | 17.-1-53 | Non-Participating | Accessory | 1.50 | 729241.90 | 4775226.44 | 215.77 |
| 600 | 17.-1-58 | Non-Participating | Accessory | 1.50 | 729195.83 | 4775298.77 | 214.50 |
| 601 | 17.-1-58 | Non-Participating | Accessory | 1.50 | 729244.39 | 4775267.47 | 215.52 |
| 602 | 17.-1-57.1 | Non-Participating | Accessory | 1.50 | 729284.06 | 4774993.16 | 218.08 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 603 | 18.-1-63 | Non-Participating | Residential | 1.50 | 732329.11 | 4776044.45 | 216.54 |
| 604 | 4.-1-7 | Non-Participating | Residential | 1.50 | 728989.14 | 4773571.77 | 232.58 |
| 605 | 4.-1-89 | Non-Participating | Residential | 1.50 | 728803.87 | 4773860.70 | 229.47 |
| 606 | 4.-1-90 | Non-Participating | Residential | 1.50 | 728832.65 | 4773864.22 | 229.78 |
| 607 | 4.-1-79 | Non-Participating | Non-Residential | 1.50 | 729015.63 | 4773868.13 | 234.02 |
| 608 | 4.-1-91 | Non-Participating | Residential | 1.50 | 728858.52 | 4773869.05 | 229.92 |
| 609 | 8.-1-66 | Non-Participating | Residential | 1.50 | 729589.05 | 4773896.81 | 238.50 |
| 610 | 1.-1-9 | Non-Participating | Accessory | 1.50 | 729090.33 | 4773880.20 | 233.80 |
| 611 | 1.-1-28.22 | Non-Participating | Non-Residential | 1.50 | 729526.43 | 4773896.11 | 236.79 |
| 612 | 4.-1-92 | Non-Participating | Residential | 1.50 | 728909.84 | 4773878.32 | 231.34 |
| 613 | 4.-1-94 | Non-Participating | Residential | 1.50 | 728975.13 | 4773880.74 | 233.16 |
| 614 | 4.-1-79 | Non-Participating | Non-Residential | 1.50 | 729032.54 | 4773886.84 | 233.80 |
| 615 | 1.-1-9 | Non-Participating | Residential | 1.50 | 729077.58 | 4773891.93 | 233.62 |
| 616 | 4.-1-93 | Non-Participating | Residential | 1.50 | 728943.97 | 4773891.22 | 232.52 |
| 617 | 4.-1-91 | Non-Participating | Accessory | 1.50 | 728866.14 | 4773897.20 | 229.01 |
| 618 | 8.-1-73.2 | Non-Participating | Residential | 1.50 | 729625.51 | 4773918.33 | 239.70 |
| 619 | 1.-1-8 | Non-Participating | Residential | 1.50 | 729086.47 | 4773908.47 | 233.05 |
| 620 | 8.-1-73.2 | Non-Participating | Accessory | 1.50 | 729579.89 | 4773926.11 | 238.48 |
| 621 | 4.-1-80 | Non-Participating | Residential | 1.50 | 729037.87 | 4773918.07 | 232.96 |
| 622 | 1.-1-7 | Non-Participating | Residential | 1.50 | 729086.06 | 4773932.48 | 232.16 |
| 623 | 4.-1-81 | Non-Participating | Residential | 1.50 | 729040.61 | 4773944.37 | 231.70 |
| 624 | 1.-1-5 | Non-Participating | Residential | 1.50 | 729091.42 | 4773955.31 | 230.73 |
| 625 | 4.-1-82 | Non-Participating | Residential | 1.50 | 729047.55 | 4773967.04 | 230.00 |
| 626 | 1.-1-4 | Non-Participating | Residential | 1.50 | 729092.21 | 4773975.11 | 229.50 |
| 627 | 4.-1-83.2 | Non-Participating | Accessory | 1.50 | 729025.97 | 4773987.09 | 228.99 |
| 628 | 8.-1-73.122 | Non-Participating | Non-Residential | 1.50 | 729645.11 | 4774011.14 | 241.50 |
| 629 | 1.-1-3 | Non-Participating | Residential | 1.50 | 729097.83 | 4773998.72 | 228.55 |
| 630 | 4.-1-83.2 | Non-Participating | Residential | 1.50 | 729047.33 | 4773996.87 | 228.54 |
| 631 | 4.-1-83.1 | Non-Participating | Residential | 1.50 | 729048.32 | 4774060.84 | 226.29 |
| 632 | 4.-1-83.1 | Non-Participating | Accessory | 1.50 | 729042.02 | 4774076.35 | 225.93 |
| 633 | 1.-1-41.1 | Non-Participating | Accessory | 1.50 | 729293.19 | 4773642.56 | 232.50 |
| 634 | 1.-1-47.1 | Non-Participating | Residential | 1.50 | 729142.92 | 4773643.19 | 232.50 |
| 635 | 4.-1-14 | Non-Participating | Residential | 1.50 | 728899.71 | 4773642.75 | 229.66 |
| 636 | 1.-1-49 | Non-Participating | Non-Residential | 1.50 | 729048.68 | 4773638.49 | 234.12 |
| 637 | 1.-1-42 | Non-Participating | Residential | 1.50 | 729276.07 | 4773657.78 | 232.50 |
| 638 | 1.-1-43 | Non-Participating | Residential | 1.50 | 729260.10 | 4773654.44 | 232.50 |
| 639 | 4.-1-13 | Non-Participating | Residential | 1.50 | 728924.81 | 4773640.56 | 230.66 |
| 640 | 4.-1-15 | Non-Participating | Residential | 1.50 | 728867.69 | 4773640.30 | 229.50 |
| 641 | 4.-1-16 | Non-Participating | Residential | 1.50 | 728845.67 | 4773641.62 | 229.50 |
| 642 | 1.-1-40.111 | Non-Participating | Residential | 1.50 | 729315.21 | 4773660.73 | 232.50 |
| 643 | 1.-1-41.1 | Non-Participating | Residential | 1.50 | 729294.79 | 4773659.93 | 232.50 |
| 644 | 4.-1-17 | Non-Participating | Accessory | 1.50 | 728820.92 | 4773645.44 | 229.50 |
| 645 | 4.-1-12 | Non-Participating | Accessory | 1.50 | 728942.44 | 4773645.67 | 231.29 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 646 | 1.-1-47.2 | Non-Participating | Residential | 1.50 | 729169.15 | 4773655.06 | 232.50 |
| 647 | 1.-1-46 | Non-Participating | Residential | 1.50 | 729181.55 | 4773653.73 | 232.50 |
| 648 | 1.-1-45 | Non-Participating | Residential | 1.50 | 729208.10 | 4773657.35 | 232.50 |
| 649 | 4.-1-11.1 | Non-Participating | Residential | 1.50 | 728951.84 | 4773650.59 | 231.65 |
| 650 | 4.-1-10 | Non-Participating | Non-Residential | 1.50 | 728999.99 | 4773652.11 | 233.13 |
| 651 | 4.-1-18 | Non-Participating | Residential | 1.50 | 728793.10 | 4773649.35 | 229.50 |
| 652 | 1.-1-39 | Non-Participating | Residential | 1.50 | 729381.25 | 4773674.99 | 232.50 |
| 653 | 1.-1-38 | Non-Participating | Residential | 1.50 | 729450.77 | 4773697.75 | 234.01 |
| 654 | 4.-1-61 | Non-Participating | Non-Residential | 1.50 | 729003.61 | 4773686.48 | 233.08 |
| 655 | 4.-1-53 | Non-Participating | Residential | 1.50 | 728825.80 | 4773684.02 | 229.50 |
| 656 | 4.-1-56 | Non-Participating | Residential | 1.50 | 728899.46 | 4773689.13 | 229.64 |
| 657 | 4.-1-55 | Non-Participating | Residential | 1.50 | 728874.48 | 4773687.75 | 229.50 |
| 658 | 4.-1-60 | Non-Participating | Non-Residential | 1.50 | 728979.03 | 4773689.56 | 232.24 |
| 659 | 1.-1-23 | Non-Participating | Residential | 1.50 | 729259.92 | 4773705.81 | 232.50 |
| 660 | 4.-1-62 | Non-Participating | Non-Residential | 1.50 | 729010.30 | 4773699.28 | 233.26 |
| 661 | 4.-1-51 | Non-Participating | Residential | 1.50 | 728782.08 | 4773690.84 | 229.50 |
| 662 | 1.-1-21 | Non-Participating | Residential | 1.50 | 729218.06 | 4773705.71 | 232.50 |
| 663 | 1.-1-25 | Non-Participating | Residential | 1.50 | 729321.59 | 4773709.95 | 232.50 |
| 664 | 4.-1-57 | Non-Participating | Residential | 1.50 | 728916.86 | 4773691.08 | 230.22 |
| 665 | 1.-1-26.1 | Non-Participating | Residential | 1.50 | 729349.57 | 4773711.33 | 232.50 |
| 666 | 1.-1-24 | Non-Participating | Residential | 1.50 | 729295.82 | 4773707.43 | 232.50 |
| 667 | 4.-1-58 | Non-Participating | Residential | 1.50 | 728939.24 | 4773695.30 | 230.97 |
| 668 | 1.-1-19 | Non-Participating | Residential | 1.50 | 729160.55 | 4773704.67 | 232.50 |
| 669 | 4.-1-54 | Non-Participating | Residential | 1.50 | 728853.62 | 4773689.97 | 229.50 |
| 670 | 1.-1-20 | Non-Participating | Residential | 1.50 | 729190.90 | 4773703.60 | 232.50 |
| 671 | 1.-1-27.1 | Non-Participating | Residential | 1.50 | 729365.77 | 4773714.16 | 232.50 |
| 672 | 1.-1-22 | Non-Participating | Residential | 1.50 | 729237.34 | 4773710.50 | 232.50 |
| 673 | 1.-1-25 | Non-Participating | Accessory | 1.50 | 729330.17 | 4773721.55 | 232.49 |
| 674 | 1.-1-26.1 | Non-Participating | Accessory | 1.50 | 729337.74 | 4773722.04 | 232.50 |
| 675 | 4.-1-52 | Non-Participating | Accessory | 1.50 | 728799.88 | 4773702.56 | 229.50 |
| 676 | 1.-1-18 | Non-Participating | Residential | 1.50 | 729105.68 | 4773709.52 | 233.88 |
| 677 | 4.-1-54 | Non-Participating | Accessory | 1.50 | 728840.96 | 4773706.12 | 229.50 |
| 678 | 1.-1-24 | Non-Participating | Accessory | 1.50 | 729300.09 | 4773726.76 | 232.16 |
| 679 | 1.-1-21 | Non-Participating | Accessory | 1.50 | 729221.69 | 4773724.56 | 232.13 |
| 680 | 1.-1-22 | Non-Participating | Accessory | 1.50 | 729247.56 | 4773723.14 | 232.23 |
| 681 | 4.-1-57 | Non-Participating | Accessory | 1.50 | 728920.52 | 4773716.19 | 230.78 |
| 682 | 4.-1-49.1 | Non-Participating | Accessory | 1.50 | 728769.23 | 4773713.52 | 229.50 |
| 683 | 1.-1-29 | Non-Participating | Residential | 1.50 | 729394.54 | 4773732.63 | 232.74 |
| 684 | 1.-1-36 | Non-Participating | Accessory | 1.50 | 729533.80 | 4773739.61 | 235.05 |
| 685 | 4.-1-64 | Non-Participating | Non-Residential | 1.50 | 729010.81 | 4773721.26 | 233.11 |
| 686 | 1.-1-19 | Non-Participating | Accessory | 1.50 | 729145.41 | 4773727.55 | 232.50 |
| 687 | 1.-1-16 | Non-Participating | Non-Residential | 1.50 | 729055.60 | 4773722.46 | 234.78 |
| 688 | 1.-1-37 | Non-Participating | Residential | 1.50 | 729484.10 | 4773734.67 | 235.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 689 | 1.-1-18 | Non-Participating | Accessory | 1.50 | 729120.78 | 4773731.96 | 233.34 |
| 690 | 1.-1-29 | Non-Participating | Accessory | 1.50 | 729387.03 | 4773745.53 | 232.03 |
| 691 | 1.-1-26.1 | Non-Participating | Accessory | 1.50 | 729334.65 | 4773747.43 | 231.12 |
| 692 | 1.-1-15 | Non-Participating | Residential | 1.50 | 729053.94 | 4773740.52 | 234.86 |
| 693 | 4.-1-65.2 | Non-Participating | Non-Residential | 1.50 | 729015.97 | 4773741.29 | 233.20 |
| 694 | 1.-1-14 | Non-Participating | Residential | 1.50 | 729055.48 | 4773751.02 | 235.08 |
| 695 | 1.-1-36 | Non-Participating | Residential | 1.50 | 729511.74 | 4773754.86 | 235.50 |
| 696 | 1.-1-30.1 | Non-Participating | Residential | 1.50 | 729432.15 | 4773764.03 | 233.56 |
| 697 | 1.-1-13 | Non-Participating | Accessory | 1.50 | 729081.55 | 4773756.68 | 235.50 |
| 698 | 4.-1-66 | Non-Participating | Non-Residential | 1.50 | 729016.55 | 4773755.72 | 233.41 |
| 699 | 1.-1-31 | Non-Participating | Residential | 1.50 | 729450.82 | 4773777.19 | 234.37 |
| 700 | 1.-1-30.1 | Non-Participating | Accessory | 1.50 | 729426.17 | 4773780.87 | 233.07 |
| 701 | 1.-1-32 | Non-Participating | Residential | 1.50 | 729472.00 | 4773792.75 | 235.29 |
| 702 | 1.-1-13 | Non-Participating | Residential | 1.50 | 729071.42 | 4773779.91 | 235.50 |
| 703 | 4.-1-68 | Non-Participating | Accessory | 1.50 | 729020.32 | 4773782.21 | 234.02 |
| 704 | 4.-1-70 | Non-Participating | Accessory | 1.50 | 728961.40 | 4773781.28 | 232.50 |
| 705 | 8.-1-63.2 | Non-Participating | Residential | 1.50 | 729580.75 | 4773800.25 | 236.31 |
| 706 | 1.-1-32 | Non-Participating | Accessory | 1.50 | 729474.04 | 4773808.80 | 235.19 |
| 707 | 1.-1-33 | Non-Participating | Residential | 1.50 | 729499.39 | 4773808.08 | 235.52 |
| 708 | 4.-1-71 | Non-Participating | Accessory | 1.50 | 728885.53 | 4773795.48 | 232.47 |
| 709 | 4.-1-72 | Non-Participating | Accessory | 1.50 | 728841.88 | 4773795.16 | 231.35 |
| 710 | 8.-1-63.1 | Non-Participating | Residential | 1.50 | 729625.49 | 4773823.63 | 237.03 |
| 711 | 4.-1-74 | Non-Participating | Residential | 1.50 | 728774.18 | 4773799.75 | 229.66 |
| 712 | 4.-1-73 | Non-Participating | Residential | 1.50 | 728796.08 | 4773802.63 | 230.23 |
| 713 | 4.-1-70 | Non-Participating | Residential | 1.50 | 728922.42 | 4773806.03 | 232.50 |
| 714 | 4.-1-72 | Non-Participating | Residential | 1.50 | 728832.33 | 4773807.11 | 231.10 |
| 715 | 1.-1-33 | Non-Participating | Accessory | 1.50 | 729501.74 | 4773829.05 | 236.06 |
| 716 | 1.-1-12 | Non-Participating | Residential | 1.50 | 729065.57 | 4773815.10 | 235.50 |
| 717 | 4.-1-71 | Non-Participating | Residential | 1.50 | 728860.19 | 4773810.77 | 231.71 |
| 718 | 4.-1-69.1 | Non-Participating | Residential | 1.50 | 729019.22 | 4773815.07 | 234.72 |
| 719 | 1.-1-11 | Non-Participating | Accessory | 1.50 | 729107.35 | 4773832.24 | 234.61 |
| 720 | 1.-1-34 | Non-Participating | Residential | 1.50 | 729534.81 | 4773842.53 | 236.89 |
| 721 | 1.-1-11 | Non-Participating | Residential | 1.50 | 729073.05 | 4773845.92 | 235.09 |
| 722 | 8.-1-65 | Non-Participating | Residential | 1.50 | 729561.15 | 4773864.29 | 237.66 |
| 723 | 8.-1-65 | Non-Participating | Accessory | 1.50 | 729567.29 | 4773873.47 | 237.85 |
| 724 | 1.-1-10 | Non-Participating | Residential | 1.50 | 729074.07 | 4773862.04 | 234.56 |
| 725 | --- | Non-Participating | Residential | 1.50 | 729041.07 | 4773472.97 | 232.50 |
| 726 | --- | Non-Participating | Residential | 1.50 | 728957.79 | 4773320.44 | 232.50 |
| 727 | --- | Non-Participating | Accessory | 1.50 | 728942.42 | 4773327.58 | 232.50 |
| 728 | --- | Non-Participating | Residential | 1.50 | 729009.02 | 4773329.55 | 232.50 |
| 729 | --- | Non-Participating | Residential | 1.50 | 729019.73 | 4773353.67 | 232.50 |
| 730 | --- | Non-Participating | Non-Residential | 1.50 | 728954.76 | 4773350.89 | 232.50 |
| 731 | --- | Non-Participating | Non-Residential | 1.50 | 729185.25 | 4773356.62 | 232.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 732 | --- | Non-Participating | Residential | 1.50 | 728964.12 | 4773374.51 | 232.50 |
| 733 | --- | Non-Participating | Residential | 1.50 | 728851.33 | 4773352.34 | 232.50 |
| 734 | --- | Non-Participating | Residential | 1.50 | 729020.09 | 4773381.49 | 232.50 |
| 735 | --- | Non-Participating | Accessory | 1.50 | 729044.08 | 4773389.15 | 232.50 |
| 736 | --- | Non-Participating | Residential | 1.50 | 728960.68 | 4773389.64 | 232.50 |
| 737 | --- | Non-Participating | Residential | 1.50 | 729017.28 | 4773400.98 | 232.50 |
| 738 | --- | Non-Participating | Residential | 1.50 | 728965.79 | 4773406.71 | 232.50 |
| 739 | --- | Non-Participating | Residential | 1.50 | 728969.30 | 4773422.14 | 232.50 |
| 740 | --- | Non-Participating | Residential | 1.50 | 729021.77 | 4773437.08 | 232.50 |
| 741 | --- | Non-Participating | Accessory | 1.50 | 728947.57 | 4773436.17 | 232.50 |
| 742 | --- | Non-Participating | Accessory | 1.50 | 728873.78 | 4773437.00 | 232.50 |
| 743 | --- | Non-Participating | Accessory | 1.50 | 728904.61 | 4773442.14 | 232.50 |
| 744 | --- | Non-Participating | Accessory | 1.50 | 729046.04 | 4773445.26 | 232.50 |
| 745 | --- | Non-Participating | Residential | 1.50 | 728972.77 | 4773448.23 | 232.50 |
| 746 | --- | Non-Participating | Accessory | 1.50 | 728844.73 | 4773448.64 | 232.04 |
| 747 | --- | Non-Participating | Residential | 1.50 | 729022.67 | 4773453.88 | 232.50 |
| 748 | --- | Non-Participating | Accessory | 1.50 | 728943.44 | 4773456.66 | 232.50 |
| 749 | --- | Non-Participating | Accessory | 1.50 | 728916.11 | 4773463.27 | 232.50 |
| 750 | --- | Non-Participating | Accessory | 1.50 | 728953.03 | 4773470.62 | 232.50 |
| 751 | --- | Non-Participating | Residential | 1.50 | 728899.62 | 4773472.19 | 232.42 |
| 752 | --- | Non-Participating | Residential | 1.50 | 728870.34 | 4773471.45 | 231.86 |
| 753 | --- | Non-Participating | Residential | 1.50 | 728843.53 | 4773473.25 | 231.61 |
| 754 | 5.-1-56 | Non-Participating | Residential | 1.50 | 728974.60 | 4773478.81 | 232.50 |
| 755 | 5.-1-57 | Non-Participating | Residential | 1.50 | 728922.95 | 4773477.21 | 232.50 |
| 756 | 2.-1-5 | Non-Participating | Residential | 1.50 | 729030.53 | 4773490.01 | 232.50 |
| 757 | 2.-1-4 | Non-Participating | Accessory | 1.50 | 729041.75 | 4773500.81 | 232.50 |
| 758 | 2.-1-4 | Non-Participating | Residential | 1.50 | 729030.73 | 4773514.45 | 232.50 |
| 759 | 4.-1-3 | Non-Participating | Residential | 1.50 | 728914.65 | 4773516.48 | 231.63 |
| 760 | 4.-1-5 | Non-Participating | Accessory | 1.50 | 728955.22 | 4773519.14 | 232.37 |
| 761 | 4.-1-3 | Non-Participating | Accessory | 1.50 | 728900.61 | 4773524.61 | 231.16 |
| 762 | 4.-1-5 | Non-Participating | Residential | 1.50 | 728979.88 | 4773527.40 | 232.50 |
| 763 | 4.-1-2 | Non-Participating | Non-Residential | 1.50 | 728854.98 | 4773526.24 | 230.60 |
| 764 | 4.-1-6 | Non-Participating | Accessory | 1.50 | 728961.25 | 4773541.17 | 231.95 |
| 765 | 2.-1-3.21 | Non-Participating | Residential | 1.50 | 729039.88 | 4773541.14 | 232.50 |
| 766 | 4.-1-6 | Non-Participating | Residential | 1.50 | 728987.62 | 4773549.13 | 232.50 |
| 767 | 4.-1-1 | Non-Participating | Non-Residential | 1.50 | 728779.82 | 4773539.05 | 229.50 |
| 768 | 4.-1-19.2 | Non-Participating | Residential | 1.50 | 728921.46 | 4773546.76 | 231.03 |
| 769 | 2.-1-2 | Non-Participating | Residential | 1.50 | 729039.12 | 4773565.17 | 232.93 |
| 770 | 4.-1-2 | Non-Participating | Non-Residential | 1.50 | 728865.63 | 4773554.18 | 230.06 |
| 771 | 4.-1-88 | Non-Participating | Residential | 1.50 | 728778.59 | 4773855.78 | 228.79 |
| 772 | 2.-1-1 | Non-Participating | Residential | 1.50 | 729039.12 | 4773583.37 | 233.46 |
| 773 | 4.-1-2 | Non-Participating | Non-Residential | 1.50 | 728836.98 | 4773583.15 | 229.50 |
| 774 | 4.-1-8 | Non-Participating | Non-Residential | 1.50 | 728992.57 | 4773609.81 | 233.01 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 775 | 1.-1-43 | Non-Participating | Accessory | 1.50 | 729261.97 | 4773634.87 | 232.50 |
| 776 | 1.-1-46 | Non-Participating | Accessory | 1.50 | 729179.35 | 4773631.44 | 232.50 |
| 777 | 1.-1-42 | Non-Participating | Accessory | 1.50 | 729281.88 | 4773638.39 | 232.50 |
| 778 | 4.-1-9 | Non-Participating | Non-Residential | 1.50 | 728996.12 | 4773628.79 | 233.07 |
| 779 | 4.-1-18 | Non-Participating | Accessory | 1.50 | 728803.29 | 4773628.33 | 229.50 |
| 780 | 1.-1-44 | Non-Participating | Residential | 1.50 | 729242.79 | 4773656.01 | 232.50 |
| 781 | 14.-1-48.2 | Non-Participating | Residential | 1.50 | 729455.01 | 4777793.37 | 217.50 |
| 782 | 14.-1-47 | Non-Participating | Residential | 1.50 | 729358.86 | 4777674.71 | 218.00 |
| 783 | 14.-1-48.1 | Non-Participating | Accessory | 1.50 | 729352.17 | 4777860.80 | 206.68 |
| 784 | 14.-1-48.1 | Non-Participating | Accessory | 1.50 | 729321.90 | 4777828.27 | 209.20 |
| 785 | 14.-1-48.2 | Non-Participating | Accessory | 1.50 | 729470.56 | 4777817.80 | 216.25 |
| 786 | 14.-1-48.1 | Non-Participating | Residential | 1.50 | 729347.61 | 4777805.09 | 212.46 |
| 787 | --- | Non-Participating | Residential | 1.50 | 732705.58 | 4776616.09 | 208.58 |
| 788 | --- | Non-Participating | Accessory | 1.50 | 732731.79 | 4776597.32 | 207.52 |
| 789 | 12.-1-11.2 | Non-Participating | Accessory | 1.50 | 724370.39 | 4774323.83 | 206.39 |
| 790 | 12.-1-11.2 | Participating | Residential | 1.50 | 724482.97 | 4774363.66 | 208.50 |
| 791 | 12.-1-11.2 | Non-Participating | Residential | 1.50 | 724404.54 | 4774343.97 | 206.86 |
| 792 | 13.-1-66.11 | Non-Participating | Residential | 1.50 | 726264.37 | 4777056.36 | 211.50 |
| 793 | 13.-1-58.2 | Non-Participating | Residential | 1.50 | 726819.44 | 4776889.60 | 201.83 |
| 794 | 13.-1-90.2 | Non-Participating | Accessory | 1.50 | 726816.25 | 4777232.87 | 209.22 |
| 795 | 13.-1-90.2 | Non-Participating | Residential | 1.50 | 726791.37 | 4777222.00 | 208.50 |
| 796 | 13.-1-63.1 | Non-Participating | Residential | 1.50 | 726523.80 | 4777148.13 | 208.50 |
| 797 | 13.-1-64 | Non-Participating | Accessory | 1.50 | 726422.04 | 4777141.03 | 208.50 |
| 798 | 13.-1-66.11 | Non-Participating | Accessory | 1.50 | 726258.38 | 4777104.16 | 211.50 |
| 799 | 13.-1-66.11 | Non-Participating | Accessory | 1.50 | 726216.69 | 4777087.12 | 211.50 |
| 800 | 13.-1-65 | Non-Participating | Residential | 1.50 | 726341.01 | 4777087.79 | 209.80 |
| 801 | 13.-1-53.1 | Non-Participating | Residential | 1.50 | 727758.11 | 4777459.63 | 226.50 |
| 802 | 14.-1-51 | Non-Participating | Non-Residential | 1.50 | 728403.92 | 4777478.34 | 203.06 |
| 803 | 13.-1-51 | Non-Participating | Residential | 1.50 | 727914.34 | 4777440.42 | 207.32 |
| 804 | 13.-1-99.211 | Non-Participating | Residential | 1.50 | 728010.95 | 4777435.68 | 199.50 |
| 805 | 13.-1-51 | Non-Participating | Accessory | 1.50 | 727879.54 | 4777424.41 | 212.17 |
| 806 | 13.-1-48 | Non-Participating | Residential | 1.50 | 728326.02 | 4777429.36 | 202.48 |
| 807 | 14.-1-45.121 | Non-Participating | Residential | 1.50 | 728401.19 | 4777423.79 | 205.42 |
| 808 | 13.-1-99.22 | Non-Participating | Accessory | 1.50 | 728253.61 | 4777409.56 | 200.30 |
| 809 | 14.-1-45.112 | Non-Participating | Residential | 1.50 | 728423.69 | 4777411.44 | 207.09 |
| 810 | 14.-1-45.112 | Non-Participating | Accessory | 1.50 | 728436.31 | 4777412.45 | 207.56 |
| 811 | 13.-1-99.212 | Non-Participating | Residential | 1.50 | 728104.85 | 4777386.29 | 197.90 |
| 812 | 14.-1-45.111 | Non-Participating | Residential | 1.50 | 728407.33 | 4777381.45 | 208.09 |
| 813 | 14.-1-44 | Non-Participating | Residential | 1.50 | 728412.48 | 4777332.87 | 209.63 |
| 814 | 13.-1-99.12 | Non-Participating | Accessory | 1.50 | 728299.78 | 4777278.89 | 208.97 |
| 815 | 13.-1-99.12 | Non-Participating | Residential | 1.50 | 728267.18 | 4777256.79 | 208.90 |
| 816 | 14.-1-42.2 | Non-Participating | Residential | 1.50 | 728415.93 | 4777190.55 | 211.50 |
| 817 | 14.-1-42.2 | Non-Participating | Accessory | 1.50 | 728454.52 | 4777175.55 | 211.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 818 | 16.-1-11.12 | Non-Participating | Residential | 1.50 | 728360.22 | 4776876.53 | 208.50 |
| 819 | 16.-1-11.11 | Non-Participating | Accessory | 1.50 | 728336.83 | 4776821.73 | 208.50 |
| 820 | 16.-1-11.11 | Non-Participating | Residential | 1.50 | 728376.17 | 4776814.25 | 208.50 |
| 821 | 13.-1-45 | Non-Participating | Accessory | 1.50 | 728341.13 | 4777628.37 | 196.23 |
| 822 | 13.-1-45 | Non-Participating | Accessory | 1.50 | 728342.98 | 4777602.63 | 196.50 |
| 823 | 13.-1-45 | Non-Participating | Accessory | 1.50 | 728329.35 | 4777598.69 | 196.50 |
| 824 | 13.-1-45 | Non-Participating | Residential | 1.50 | 728342.73 | 4777577.48 | 197.08 |
| 825 | 13.-1-52 | Non-Participating | Residential | 1.50 | 727894.73 | 4777525.91 | 213.32 |
| 826 | 13.-1-89.12 | Non-Participating | Accessory | 1.50 | 728255.83 | 4777510.68 | 199.04 |
| 827 | 13.-1-89.22 | Non-Participating | Accessory | 1.50 | 728231.02 | 4777504.73 | 199.50 |
| 828 | 13.-1-89.21 | Non-Participating | Residential | 1.50 | 728192.45 | 4777492.34 | 199.50 |
| 829 | 13.-1-89.12 | Non-Participating | Residential | 1.50 | 728257.16 | 4777490.59 | 199.50 |
| 830 | 14.-1-51 | Non-Participating | Non-Residential | 1.50 | 728416.15 | 4777490.15 | 202.46 |
| 831 | 14.-1-51 | Non-Participating | Non-Residential | 1.50 | 728433.12 | 4777481.75 | 203.18 |
| 832 | 17.-1-74 | Non-Participating | Residential | 1.50 | 728575.25 | 4775727.93 | 218.79 |
| 833 | 16.-1-13.111 | Non-Participating | Residential | 1.50 | 728211.67 | 4775698.67 | 232.50 |
| 834 | 16.-1-18.2 | Non-Participating | Residential | 1.50 | 727838.78 | 4775509.90 | 229.50 |
| 835 | 17.-1-67 | Non-Participating | Residential | 1.50 | 728639.12 | 4774987.30 | 219.99 |
| 836 | 16.-1-12./1 | Non-Participating | Residential | 1.50 | 728368.23 | 4775786.01 | 232.03 |
| 837 | 17.-1-74 | Non-Participating | Non-Residential | 1.50 | 728676.46 | 4775734.14 | 213.89 |
| 838 | 16.-1-18.122 | Non-Participating | Accessory | 1.50 | 727891.02 | 4775550.76 | 231.61 |
| 839 | 16.-1-13.21 | Non-Participating | Residential | 1.50 | 727864.06 | 4775670.46 | 219.46 |
| 840 | 16.-1-13.112 | Non-Participating | Residential | 1.50 | 728127.66 | 4775688.34 | 232.42 |
| 841 | 16.-1-25 | Non-Participating | Accessory | 1.50 | 726187.36 | 4775578.06 | 220.13 |
| 842 | 16.-1-6 | Non-Participating | Residential | 1.50 | 726097.96 | 4775544.41 | 215.66 |
| 843 | 16.-1-25 | Non-Participating | Residential | 1.50 | 726186.70 | 4775551.91 | 220.50 |
| 844 | 16.-1-21 | Non-Participating | Residential | 1.50 | 726843.52 | 4775544.44 | 220.70 |
| 845 | 16.-1-29.2 | Non-Participating | Residential | 1.50 | 726166.32 | 4775500.75 | 220.50 |
| 846 | 16.-1-29.2 | Non-Participating | Accessory | 1.50 | 726148.62 | 4775487.71 | 220.50 |
| 847 | 16.-1-29.12 | Non-Participating | Residential | 1.50 | 726103.38 | 4775468.76 | 220.50 |
| 848 | 16.-1-19.21 | Non-Participating | Accessory | 1.50 | 726539.42 | 4775309.75 | 220.50 |
| 849 | 16.-1-19.21 | Non-Participating | Residential | 1.50 | 726529.56 | 4775276.07 | 220.50 |
| 850 | 16.-1-26.2 | Non-Participating | Accessory | 1.50 | 726265.35 | 4775585.76 | 220.50 |
| 851 | 16.-1-28 | Non-Participating | Residential | 1.50 | 726814.49 | 4775602.44 | 214.61 |
| 852 | 16.-1-26.2 | Non-Participating | Residential | 1.50 | 726270.41 | 4775560.52 | 220.50 |
| 853 | 19.-1-14.111 | Non-Participating | Non-Residential | 1.50 | 727753.02 | 4773973.24 | 223.76 |
| 854 | 19.-1-14.2 | Non-Participating | Non-Residential | 1.50 | 727813.15 | 4773892.98 | 225.29 |
| 855 | 19.-1-14.2 | Non-Participating | Non-Residential | 1.50 | 727657.54 | 4773879.47 | 223.97 |
| 856 | 19.-1-14.2 | Non-Participating | Non-Residential | 1.50 | 727718.36 | 4773820.69 | 225.14 |
| 857 | 19.-1-14.2 | Non-Participating | Non-Residential | 1.50 | 727647.42 | 4773832.34 | 224.53 |
| 858 | 19.-1-66 | Non-Participating | Residential | 1.50 | 726986.39 | 4773765.92 | 227.39 |
| 859 | 19.-1-65.12 | Non-Participating | Residential | 1.50 | 727055.40 | 4773757.04 | 227.62 |
| 860 | 19.-1-19 | Non-Participating | Non-Residential | 1.50 | 727834.94 | 4773759.97 | 226.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 861 | 19.-1-18.2 | Non-Participating | Non-Residential | 1.50 | 727785.07 | 4773698.71 | 226.50 |
| 862 | 19.-1-27.111 | Non-Participating | Residential | 1.50 | 727834.62 | 4773223.80 | 232.50 |
| 863 | 19.-1-27.21 | Non-Participating | Accessory | 1.50 | 727868.63 | 4773238.92 | 232.50 |
| 864 | 19.-1-31 | Non-Participating | Residential | 1.50 | 727766.80 | 4773162.33 | 232.50 |
| 865 | 14.-2-40.1 | Non-Participating | Accessory | 1.50 | 731101.54 | 4777624.50 | 208.46 |
| 866 | 14.-2-40.1 | Non-Participating | Accessory | 1.50 | 731097.34 | 4777530.44 | 203.89 |
| 867 | 14.-2-35 | Non-Participating | Non-Residential | 1.50 | 730578.74 | 4777473.16 | 223.50 |
| 868 | 14.-2-40.1 | Non-Participating | Residential | 1.50 | 731078.39 | 4777513.27 | 203.74 |
| 869 | 14.-2-34.2 | Non-Participating | Accessory | 1.50 | 730477.16 | 4777473.11 | 221.04 |
| 870 | 14.-2-39 | Non-Participating | Residential | 1.50 | 731171.34 | 4777483.67 | 202.77 |
| 871 | 14.-2-34.2 | Non-Participating | Residential | 1.50 | 730509.26 | 4777463.86 | 222.11 |
| 872 | 14.-2-29.2 | Non-Participating | Residential | 1.50 | 730481.84 | 4777399.25 | 220.24 |
| 873 | --- | Non-Participating | Accessory | 1.50 | 731047.39 | 4777379.17 | 202.50 |
| 874 | 14.-2-29.12 | Non-Participating | Residential | 1.50 | 731023.49 | 4777311.09 | 207.57 |
| 875 | 14.-2-37 | Non-Participating | Accessory | 1.50 | 730592.71 | 4777699.18 | 213.62 |
| 876 | 14.-2-36 | Non-Participating | Accessory | 1.50 | 730482.60 | 4777612.50 | 215.71 |
| 877 | 14.-2-36 | Non-Participating | Residential | 1.50 | 730447.25 | 4777603.88 | 215.08 |
| 878 | 14.-2-40.1 | Non-Participating | Accessory | 1.50 | 731065.74 | 4777557.16 | 206.61 |
| 879 | 19.-1-30 | Non-Participating | Residential | 1.50 | 727826.21 | 4773150.33 | 232.50 |
| 880 | 19.-1-41 | Non-Participating | Accessory | 1.50 | 727638.48 | 4772415.32 | 234.67 |
| 881 | 19.-1-30 | Non-Participating | Accessory | 1.50 | 727806.39 | 4773125.64 | 232.50 |
| 882 | 19.-1-42.2 | Non-Participating | Non-Residential | 1.50 | 727605.09 | 4772483.26 | 233.72 |
| 883 | 19.-1-41 | Non-Participating | Residential | 1.50 | 727651.78 | 4772425.03 | 234.37 |
| 884 | 18.-1-1.1 | Non-Participating | Residential | 1.50 | 732553.46 | 4777033.18 | 205.54 |
| 885 | 18.-1-1.1 | Non-Participating | Accessory | 1.50 | 732526.28 | 4777023.04 | 204.99 |
| 886 | 15.-1-38.2 | Non-Participating | Residential | 1.50 | 732377.37 | 4777492.44 | 208.50 |
| 887 | 15.-1-38.2 | Non-Participating | Accessory | 1.50 | 732353.63 | 4777511.25 | 208.22 |
| 888 | 15.-1-38.2 | Non-Participating | Accessory | 1.50 | 732419.14 | 4777520.37 | 207.35 |
| 889 | 15.-1-38.2 | Non-Participating | Accessory | 1.50 | 732393.49 | 4777521.10 | 207.73 |
| 890 | 15.-1-38.2 | Non-Participating | Accessory | 1.50 | 732369.20 | 4777535.08 | 207.24 |
| 891 | 15.-1-36 | Non-Participating | Residential | 1.50 | 732651.96 | 4777412.79 | 205.50 |
| 892 | 15.-1-36 | Non-Participating | Accessory | 1.50 | 732653.11 | 4777362.87 | 205.50 |
| 893 | 15.-1-36 | Non-Participating | Accessory | 1.50 | 732633.27 | 4777415.86 | 205.50 |
| 894 | 12.-1-43 | Non-Participating | Residential | 1.50 | 724048.81 | 4776152.22 | 194.09 |
| 895 | 12.-1-4.11 | Non-Participating | Residential | 1.50 | 723752.10 | 4776273.13 | 197.34 |
| 896 | 12.-1-4.2 | Non-Participating | Accessory | 1.50 | 723947.73 | 4776285.78 | 193.50 |
| 897 | 12.-1-4.2 | Non-Participating | Residential | 1.50 | 723980.32 | 4776307.97 | 193.50 |
| 898 | 12.-1-4.11 | Non-Participating | Accessory | 1.50 | 723761.01 | 4776314.38 | 194.93 |
| 899 | 12.-1-43 | Non-Participating | Accessory | 1.50 | 724063.66 | 4776135.44 | 194.29 |
| 900 | 12.-1-52 | Non-Participating | Residential | 1.50 | 723984.23 | 4775852.95 | 195.83 |
| 901 | 12.-1-52 | Non-Participating | Accessory | 1.50 | 723951.46 | 4775829.66 | 195.76 |
| 902 | 12.-1-41 | Non-Participating | Accessory | 1.50 | 723922.65 | 4775764.57 | 195.95 |
| 903 | 12.-1-41 | Non-Participating | Residential | 1.50 | 723921.69 | 4775711.12 | 196.07 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 904 | 8.-1-72.112 | Non-Participating | Residential | 1.50 | 730095.90 | 4773922.65 | 226.50 |
| 905 | 8.-1-70.2 | Non-Participating | Residential | 1.50 | 729888.62 | 4773911.94 | 233.11 |
| 906 | 8.-1-72.12 | Non-Participating | Residential | 1.50 | 729995.07 | 4773916.38 | 228.76 |
| 907 | 8.-1-72.12 | Non-Participating | Accessory | 1.50 | 729977.31 | 4773915.49 | 229.36 |
| 908 | 8.-1-84 | Non-Participating | Residential | 1.50 | 729911.65 | 4773839.21 | 228.96 |
| 909 | 8.-1-64.21 | Non-Participating | Residential | 1.50 | 729712.95 | 4773832.38 | 235.95 |
| 910 | 8.-1-64.21 | Non-Participating | Accessory | 1.50 | 729679.99 | 4773827.97 | 236.34 |
| 911 | 8.-1-64.21 | Non-Participating | Accessory | 1.50 | 729779.99 | 4773792.68 | 231.39 |
| 912 | 8.-1-64.113 | Non-Participating | Accessory | 1.50 | 730276.80 | 4773687.67 | 226.50 |
| 913 | 8.-1-68 | Non-Participating | Non-Residential | 1.50 | 729731.55 | 4773919.91 | 239.60 |
| 914 | 8.-1-69 | Non-Participating | Non-Residential | 1.50 | 729800.15 | 4773969.13 | 239.98 |
| 915 | 8.-1-82 | Non-Participating | Non-Residential | 1.50 | 729735.49 | 4774014.87 | 241.50 |
| 916 | 8.-1-82 | Non-Participating | Non-Residential | 1.50 | 729709.56 | 4773995.61 | 241.50 |
| 917 | 8.-1-70.1 | Non-Participating | Non-Residential | 1.50 | 729872.10 | 4774016.65 | 239.96 |
| 918 | 8.-1-71 | Non-Participating | Non-Residential | 1.50 | 729949.32 | 4774052.64 | 239.28 |
| 919 | 8.-1-71 | Non-Participating | Non-Residential | 1.50 | 729938.17 | 4774067.92 | 239.75 |
| 920 | 12.-1-27.21 | Non-Participating | Residential | 1.50 | 723997.57 | 4774755.07 | 202.50 |
| 921 | 12.-1-12 | Non-Participating | Residential | 1.50 | 724092.78 | 4774797.29 | 203.90 |
| 922 | 12.-1-12 | Non-Participating | Accessory | 1.50 | 724122.36 | 4774815.77 | 204.67 |
| 923 | 12.-1-26.2 | Non-Participating | Residential | 1.50 | 724027.26 | 4774679.50 | 202.50 |
| 924 | 12.-1-26.2 | Non-Participating | Accessory | 1.50 | 724006.65 | 4774652.18 | 202.50 |
| 925 | 12.-1-29.2 | Non-Participating | Residential | 1.50 | 724018.80 | 4774531.09 | 202.50 |
| 926 | 12.-1-29.2 | Non-Participating | Accessory | 1.50 | 723924.96 | 4774503.57 | 202.50 |
| 927 | 12.-1-29.2 | Non-Participating | Accessory | 1.50 | 723982.79 | 4774509.60 | 202.50 |
| 928 | --- | Non-Participating | Residential | 1.50 | 724119.23 | 4774141.79 | 204.91 |
| 929 | 6.-1-8.122 | Non-Participating | Accessory | 1.50 | 724127.37 | 4774123.54 | 205.31 |
| 930 | 6.-1-8.121 | Non-Participating | Residential | 1.50 | 724117.78 | 4774089.47 | 205.50 |
| 931 | 6.-1-8.112 | Non-Participating | Residential | 1.50 | 724115.08 | 4774024.30 | 207.05 |
| 932 | 6.-1-8.121 | Non-Participating | Accessory | 1.50 | 724131.04 | 4774075.20 | 205.86 |
| 933 | 12.-1-27.11 | Non-Participating | Residential | 1.50 | 724026.34 | 4774741.38 | 202.50 |
| 934 | 12.-1-26.11 | Non-Participating | Accessory | 1.50 | 724006.47 | 4774710.35 | 202.50 |
| 935 | 12.-1-26.11 | Non-Participating | Residential | 1.50 | 724019.88 | 4774697.99 | 202.50 |
| 936 | 19.-1-43.1 | Non-Participating | Accessory | 1.50 | 727196.24 | 4772173.59 | 235.50 |
| 937 | 19.-1-43.1 | Non-Participating | Residential | 1.50 | 727182.20 | 4772189.68 | 235.50 |
| 938 | --- | Participating | Non-Residential | 1.50 | 726926.07 | 4776324.67 | 203.26 |
| 939 | 14.-1-36 | Non-Participating | Accessory | 1.50 | 729573.40 | 4777794.61 | 214.72 |
| 940 | 14.-1-37.2 | Non-Participating | Accessory | 1.50 | 729629.19 | 4777756.33 | 212.99 |
| 941 | 14.-1-37.2 | Non-Participating | Accessory | 1.50 | 729652.07 | 4777755.03 | 212.02 |
| 942 | 14.-1-37.1 | Non-Participating | Accessory | 1.50 | 729830.85 | 4777751.08 | 201.56 |
| 943 | 14.-1-37.2 | Non-Participating | Residential | 1.50 | 729667.73 | 4777744.02 | 210.36 |
| 944 | 14.-1-37.1 | Non-Participating | Residential | 1.50 | 729806.46 | 4777731.62 | 200.63 |
| 945 | 14.-1-35.1 | Non-Participating | Accessory | 1.50 | 729799.53 | 4777809.71 | 206.43 |
| 946 | 14.-1-36 | Non-Participating | Residential | 1.50 | 729594.72 | 4777803.68 | 214.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 947 | 14.-1-35.1 | Non-Participating | Residential | 1.50 | 729885.26 | 4777836.49 | 204.39 |
| 948 | 14.-1-35.1 | Non-Participating | Non-Residential | 1.50 | 729898.72 | 4777865.12 | 204.37 |
| 949 | 14.-1-35.1 | Non-Participating | Non-Residential | 1.50 | 729910.29 | 4777866.94 | 203.88 |
| 950 | 14.-1-35.1 | Non-Participating | Non-Residential | 1.50 | 729864.64 | 4777891.64 | 206.14 |
| 951 | 14.-1-35.1 | Non-Participating | Non-Residential | 1.50 | 729901.65 | 4777894.72 | 205.00 |
| 952 | 16.-1-14 | Non-Participating | Residential | 1.50 | 727747.66 | 4775660.04 | 216.55 |
| 953 | 16.-1-8.111 | Non-Participating | Accessory | 1.50 | 727042.47 | 4775615.66 | 222.56 |
| 954 | --- | Participating | Accessory | 1.50 | 727052.64 | 4775561.62 | 223.50 |
| 955 | 16.-1-20 | Non-Participating | Residential | 1.50 | 726969.30 | 4775538.77 | 223.50 |
| 956 | --- | Participating | Accessory | 1.50 | 727015.41 | 4775530.67 | 223.50 |
| 957 | 16.-1-39 | Non-Participating | Residential | 1.50 | 727646.72 | 4775424.59 | 226.50 |
| 958 | 16.-1-39 | Non-Participating | Accessory | 1.50 | 727601.43 | 4775402.35 | 224.11 |
| 959 | 16.-1-14 | Non-Participating | Accessory | 1.50 | 727766.32 | 4775693.57 | 214.74 |
| 960 | 6.-1-60.121 | Non-Participating | Accessory | 1.50 | 725100.34 | 4773424.43 | 216.01 |
| 961 | 6.-1-8.114 | Non-Participating | Residential | 1.50 | 724348.24 | 4773639.01 | 214.95 |
| 962 | 6.-1-8.114 | Non-Participating | Accessory | 1.50 | 724334.52 | 4773640.10 | 215.22 |
| 963 | 6.-1-9.1 | Non-Participating | Accessory | 1.50 | 724699.66 | 4773654.22 | 211.50 |
| 964 | 6.-1-65 | Non-Participating | Accessory | 1.50 | 724560.28 | 4773657.65 | 213.97 |
| 965 | 6.-1-8.2 | Non-Participating | Accessory | 1.50 | 724391.83 | 4773655.27 | 214.50 |
| 966 | 6.-1-65 | Non-Participating | Accessory | 1.50 | 724509.11 | 4773663.62 | 214.21 |
| 967 | 6.-1-11 | Non-Participating | Residential | 1.50 | 724920.33 | 4773638.00 | 212.60 |
| 968 | 6.-1-55 | Non-Participating | Residential | 1.50 | 725009.91 | 4773598.09 | 214.19 |
| 969 | 6.-1-14 | Non-Participating | Accessory | 1.50 | 724473.94 | 4773574.77 | 214.50 |
| 970 | 6.-1-66 | Non-Participating | Residential | 1.50 | 724584.50 | 4773579.17 | 214.50 |
| 971 | 6.-1-18.122 | Non-Participating | Residential | 1.50 | 724528.67 | 4773576.47 | 214.50 |
| 972 | 6.-1-18.121 | Non-Participating | Residential | 1.50 | 724634.12 | 4773578.39 | 214.50 |
| 973 | 6.-1-18.2 | Non-Participating | Residential | 1.50 | 724842.58 | 4773565.86 | 213.94 |
| 974 | 6.-1-18.2 | Non-Participating | Accessory | 1.50 | 724923.98 | 4773574.57 | 211.66 |
| 975 | 6.-1-14 | Non-Participating | Residential | 1.50 | 724481.40 | 4773563.69 | 214.50 |
| 976 | 6.-1-60.2 | Non-Participating | Non-Residential | 1.50 | 725002.02 | 4773523.04 | 214.50 |
| 977 | 6.-1-12.2 | Non-Participating | Residential | 1.50 | 725056.87 | 4773660.84 | 214.50 |
| 978 | 6.-1-65 | Non-Participating | Residential | 1.50 | 724539.98 | 4773639.39 | 214.50 |
| 979 | 6.-1-12.1 | Non-Participating | Residential | 1.50 | 725089.55 | 4773656.21 | 214.80 |
| 980 | 6.-1-8.2 | Non-Participating | Residential | 1.50 | 724380.17 | 4773634.41 | 214.50 |
| 981 | 6.-1-9.1 | Non-Participating | Accessory | 1.50 | 724653.96 | 4773640.70 | 212.26 |
| 982 | 6.-1-9.1 | Non-Participating | Residential | 1.50 | 724649.21 | 4773632.27 | 212.66 |
| 983 | --- | Non-Participating | Accessory | 1.50 | 720240.22 | 4775109.47 | 223.50 |
| 984 | 11.-1-60.1 | Non-Participating | Residential | 1.50 | 720508.02 | 4775126.51 | 208.35 |
| 985 | 11.-1-59.121 | Non-Participating | Accessory | 1.50 | 720346.42 | 4775122.95 | 224.15 |
| 986 | 11.-1-59.121 | Non-Participating | Residential | 1.50 | 720358.20 | 4775145.63 | 223.50 |
| 987 | 11.-1-60.1 | Non-Participating | Accessory | 1.50 | 720513.81 | 4775153.58 | 208.74 |
| 988 | --- | Non-Participating | Accessory | 1.50 | 720317.90 | 4774351.21 | 220.50 |
| 989 | --- | Non-Participating | Residential | 1.50 | 720267.87 | 4774379.06 | 220.50 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 990 | 14.-1-46 | Non-Participating | Accessory | 1.50 | 729053.03 | 4777549.17 | 220.50 |
| 991 | 14.-1-46 | Non-Participating | Accessory | 1.50 | 729037.38 | 4777518.61 | 220.50 |
| 992 | 14.-1-45.2 | Non-Participating | Residential | 1.50 | 728658.15 | 4777494.01 | 209.73 |
| 993 | 14.-1-50.2 | Non-Participating | Accessory | 1.50 | 728775.41 | 4777578.10 | 208.52 |
| 994 | 14.-1-50.2 | Non-Participating | Residential | 1.50 | 728752.89 | 4777569.26 | 208.36 |
| 995 | 14.-1-50.2 | Non-Participating | Accessory | 1.50 | 728692.83 | 4777550.95 | 207.55 |
| 996 | 14.-1-46 | Non-Participating | Residential | 1.50 | 728966.88 | 4777521.23 | 220.50 |
| 997 | 11.-1-60.1 | Non-Participating | Accessory | 1.50 | 720527.89 | 4775140.32 | 207.08 |
| 998 | --- | Non-Participating | Residential | 1.50 | 720318.81 | 4775101.03 | 224.47 |
| 999 | 13.-1-27 | Non-Participating | Residential | 1.50 | 723238.68 | 4777217.14 | 191.75 |
| 1000 | 13.-1-10 | Non-Participating | Accessory | 1.50 | 724114.91 | 4776736.82 | 193.50 |
| 1001 | 13.-1-10 | Non-Participating | Residential | 1.50 | 724138.29 | 4776719.32 | 193.50 |
| 1002 | 13.-1-15 | Non-Participating | Residential | 1.50 | 724112.41 | 4776676.54 | 193.50 |
| 1003 | 17.-1-19 | Non-Participating | Accessory | 1.50 | 731793.93 | 4775077.34 | 235.19 |
| 1004 | 17.-1-23.11 | Non-Participating | Residential | 1.50 | 731949.68 | 4775092.04 | 235.50 |
| 1005 | 17.-1-36.2 | Non-Participating | Residential | 1.50 | 731414.47 | 4775435.67 | 217.50 |
| 1006 | 18.-1-33.2 | Non-Participating | Residential | 1.50 | 732015.89 | 4775134.43 | 235.50 |
| 1007 | 18.-1-33.12 | Non-Participating | Residential | 1.50 | 732077.75 | 4775158.48 | 232.89 |
| 1008 | 17.-1-19 | Non-Participating | Residential | 1.50 | 731768.52 | 4775157.34 | 228.73 |
| 1009 | 18.-1-34 | Non-Participating | Residential | 1.50 | 732214.48 | 4775185.72 | 224.78 |
| 1010 | 18.-1-33.11 | Non-Participating | Residential | 1.50 | 732129.72 | 4775182.37 | 231.27 |
| 1011 | 18.-1-33.11 | Non-Participating | Accessory | 1.50 | 732134.89 | 4775202.77 | 231.01 |
| 1012 | 18.-1-40.1 | Non-Participating | Residential | 1.50 | 732058.28 | 4775253.21 | 225.67 |
| 1013 | 18.-1-39 | Non-Participating | Residential | 1.50 | 732217.52 | 4775318.15 | 219.96 |
| 1014 | 18.-1-39 | Non-Participating | Accessory | 1.50 | 732250.12 | 4775350.62 | 218.29 |
| 1015 | 17.-1-36.12 | Non-Participating | Residential | 1.50 | 731409.03 | 4775371.42 | 217.50 |
| 1016 | 17.-1-37.1 | Non-Participating | Residential | 1.50 | 731409.24 | 4775519.08 | 217.50 |
| 1017 | 17.-1-37.1 | Non-Participating | Residential | 1.50 | 731435.10 | 4775555.01 | 218.77 |
| 1018 | 17.-1-37.1 | Non-Participating | Accessory | 1.50 | 731417.14 | 4775554.28 | 218.11 |
| 1019 | 17.-1-17.112 | Non-Participating | Accessory | 1.50 | 731720.59 | 4775939.04 | 222.98 |
| 1020 | 17.-1-17.112 | Non-Participating | Accessory | 1.50 | 731689.02 | 4775937.23 | 223.50 |
| 1021 | 17.-1-17.112 | Non-Participating | Residential | 1.50 | 731716.15 | 4775919.65 | 222.44 |
| 1022 | 17.-1-17.21 | Non-Participating | Residential | 1.50 | 731786.69 | 4775886.09 | 217.10 |
| 1023 | 17.-1-16.2 | Non-Participating | Accessory | 1.50 | 731999.16 | 4775900.68 | 212.13 |
| 1024 | 17.-1-17.111 | Non-Participating | Residential | 1.50 | 731570.63 | 4775882.44 | 219.10 |
| 1025 | 18.-1-46.2 | Non-Participating | Residential | 1.50 | 732031.68 | 4775893.80 | 211.76 |
| 1026 | 17.-1-16.12 | Non-Participating | Residential | 1.50 | 731850.81 | 4775877.14 | 213.98 |
| 1027 | 17.-1-16.2 | Non-Participating | Residential | 1.50 | 731974.22 | 4775878.91 | 211.94 |
| 1028 | 17.-1-17.111 | Non-Participating | Residential | 1.50 | 731628.78 | 4775862.55 | 220.50 |
| 1029 | 17.-1-38 | Non-Participating | Residential | 1.50 | 731402.56 | 4775687.63 | 215.79 |
| 1030 | 17.-1-18.2 | Non-Participating | Accessory | 1.50 | 731497.04 | 4775697.14 | 217.50 |
| 1031 | 17.-1-18.2 | Non-Participating | Residential | 1.50 | 731478.97 | 4775678.66 | 217.50 |
| 1032 | 17.-1-18.12 | Non-Participating | Residential | 1.50 | 731470.63 | 4775613.43 | 220.13 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 1033 | 17.-1-37.2 | Non-Participating | Residential | 1.50 | 731422.69 | 4775589.11 | 218.90 |
| 1034 | 13.-1-23.2 | Non-Participating | Residential | 1.50 | 724039.87 | 4776802.82 | 193.50 |
| 1035 | 13.-1-17.1 | Non-Participating | Residential | 1.50 | 724101.91 | 4776826.46 | 193.50 |
| 1036 | 13.-1-23.2 | Non-Participating | Residential | 1.50 | 724028.14 | 4776823.66 | 193.50 |
| 1037 | 13.-1-18.1 | Non-Participating | Residential | 1.50 | 724083.81 | 4776851.94 | 193.50 |
| 1038 | 13.-1-19 | Non-Participating | Residential | 1.50 | 724066.58 | 4776893.30 | 193.50 |
| 1039 | 13.-1-54 | Non-Participating | Residential | 1.50 | 723626.37 | 4776890.34 | 192.71 |
| 1040 | 13.-1-20 | Non-Participating | Accessory | 1.50 | 724117.85 | 4776926.31 | 193.50 |
| 1041 | 13.-1-20 | Non-Participating | Residential | 1.50 | 724103.33 | 4776926.16 | 193.50 |
| 1042 | 13.-1-21 | Non-Participating | Residential | 1.50 | 724089.99 | 4776926.37 | 193.50 |
| 1043 | 13.-1-12.1 | Non-Participating | Residential | 1.50 | 724107.74 | 4776965.68 | 193.50 |
| 1044 | 13.-1-12.1 | Non-Participating | Accessory | 1.50 | 724116.79 | 4776985.59 | 193.50 |
| 1045 | 13.-1-13 | Non-Participating | Accessory | 1.50 | 724171.88 | 4777108.76 | 193.50 |
| 1046 | 13.-1-16 | Non-Participating | Residential | 1.50 | 724105.85 | 4776778.13 | 193.50 |
| 1047 | 13.-1-10 | Non-Participating | Residential | 1.50 | 724113.10 | 4776751.93 | 193.50 |
| 1048 | 19.-1-48 | Non-Participating | Accessory | 1.50 | 726810.19 | 4772203.58 | 241.50 |
| 1049 | 19.-1-52 | Non-Participating | Non-Residential | 1.50 | 726592.89 | 4772035.78 | 235.24 |
| 1050 | 19.-1-53.1 | Non-Participating | Residential | 1.50 | 726587.25 | 4772092.90 | 235.32 |
| 1051 | 19.-1-53.221 | Non-Participating | Residential | 1.50 | 726573.79 | 4772129.48 | 234.70 |
| 1052 | 19.-1-48 | Non-Participating | Residential | 1.50 | 726798.67 | 4772157.07 | 240.59 |
| 1053 | 19.-1-48 | Non-Participating | Accessory | 1.50 | 726763.55 | 4772189.54 | 241.00 |
| 1054 | 10.-1-6 | Non-Participating | Accessory | 1.50 | 726445.62 | 4771874.83 | 233.94 |
| 1055 | 19.-1-50 | Non-Participating | Non-Residential | 1.50 | 726590.23 | 4771941.03 | 234.78 |
| 1056 | 13.-1-76 | Non-Participating | Non-Residential | 1.50 | 726001.95 | 4778328.45 | 193.50 |
| 1057 | 12.-1-13 | Non-Participating | Accessory | 1.50 | 724321.15 | 4775389.02 | 201.07 |
| 1058 | 12.-1-51 | Non-Participating | Residential | 1.50 | 724354.68 | 4775435.75 | 202.44 |
| 1059 | 12.-1-51 | Non-Participating | Accessory | 1.50 | 724363.98 | 4775445.42 | 202.84 |
| 1060 | 12.-1-49 | Non-Participating | Residential | 1.50 | 724243.16 | 4775441.34 | 204.66 |
| 1061 | 12.-1-50 | Non-Participating | Residential | 1.50 | 724317.11 | 4775448.45 | 203.63 |
| 1062 | 12.-1-51 | Non-Participating | Accessory | 1.50 | 724405.17 | 4775455.38 | 203.10 |
| 1063 | 12.-1-6.2 | Non-Participating | Residential | 1.50 | 724845.42 | 4775474.56 | 203.28 |
| 1064 | 12.-1-49 | Non-Participating | Accessory | 1.50 | 724263.32 | 4775456.37 | 205.15 |
| 1065 | 12.-1-49 | Non-Participating | Accessory | 1.50 | 724251.53 | 4775463.44 | 205.50 |
| 1066 | 12.-1-6.2 | Non-Participating | Accessory | 1.50 | 724842.30 | 4775496.12 | 204.68 |
| 1067 | 12.-1-5.2 | Non-Participating | Non-Residential | 1.50 | 724580.91 | 4775593.33 | 211.50 |
| 1068 | 12.-1-5.1 | Non-Participating | Accessory | 1.50 | 724567.94 | 4775572.44 | 211.15 |
| 1069 | 12.-1-5.1 | Non-Participating | Accessory | 1.50 | 724667.31 | 4775575.76 | 210.28 |
| 1070 | 12.-1-5.1 | Non-Participating | Accessory | 1.50 | 724588.81 | 4775569.20 | 210.80 |
| 1071 | 12.-1-5.1 | Non-Participating | Residential | 1.50 | 724590.80 | 4775547.88 | 208.44 |
| 1072 | 12.-1-6.12 | Non-Participating | Non-Residential | 1.50 | 724790.66 | 4775530.95 | 206.51 |
| 1073 | 12.-1-53 | Non-Participating | Residential | 1.50 | 724236.00 | 4775389.93 | 202.59 |
| 1074 | 12.-1-13 | Non-Participating | Residential | 1.50 | 724302.42 | 4775395.71 | 201.55 |
| 1075 | 12.-1-9 | Non-Participating | Accessory | 1.50 | 724998.45 | 4775402.22 | 206.22 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 1076 | 12.-1-9 | Non-Participating | Residential | 1.50 | 724964.74 | 4775391.51 | 205.74 |
| 1077 | 12.-1-58 | Non-Participating | Accessory | 1.50 | 724821.23 | 4775168.57 | 211.13 |
| 1078 | 12.-1-58 | Non-Participating | Residential | 1.50 | 724799.23 | 4775151.53 | 210.23 |
| 1079 | 12.-1-50 | Non-Participating | Accessory | 1.50 | 724307.20 | 4775490.69 | 205.50 |
| 1080 | --- | Participating | Non-Residential | 1.50 | 724869.88 | 4775669.06 | 214.21 |
| 1081 | --- | Participating | Non-Residential | 1.50 | 724857.96 | 4775659.06 | 214.17 |
| 1082 | --- | Participating | Non-Residential | 1.50 | 724878.49 | 4775658.72 | 213.15 |
| 1083 | --- | Participating | Non-Residential | 1.50 | 724806.73 | 4775650.53 | 215.84 |
| 1084 | --- | Participating | Non-Residential | 1.50 | 724877.03 | 4775649.14 | 212.64 |
| 1085 | --- | Participating | Non-Residential | 1.50 | 724827.29 | 4775625.45 | 212.90 |
| 1086 | 12.-1-5.2 | Non-Participating | Non-Residential | 1.50 | 724478.18 | 4775593.02 | 208.48 |
| 1087 | 12.-1-5.2 | Non-Participating | Non-Residential | 1.50 | 724563.97 | 4775600.28 | 211.50 |
| 1088 | 13.-1-87 | Non-Participating | Non-Residential | 1.50 | 728024.17 | 4778414.01 | 193.50 |
| 1089 | 14.-1-63 | Non-Participating | Non-Residential | 1.50 | 728360.59 | 4778409.63 | 193.50 |
| 1090 | 13.-1-42.1 | Non-Participating | Residential | 1.50 | 728286.80 | 4777947.38 | 193.50 |
| 1091 | 13.-1-42.1 | Non-Participating | Accessory | 1.50 | 728257.56 | 4777914.28 | 193.50 |
| 1092 | 14.-2-37 | Non-Participating | Accessory | 1.50 | 730585.46 | 4777713.59 | 211.78 |
| 1093 | 14.-1-38 | Non-Participating | Non-Residential | 1.50 | 730481.72 | 4777718.89 | 208.67 |
| 1094 | 14.-2-37 | Non-Participating | Residential | 1.50 | 730546.38 | 4777725.26 | 207.99 |
| 1095 | 14.-1-31 | Non-Participating | Accessory | 1.50 | 730602.41 | 4778307.28 | 196.50 |
| 1096 | 14.-1-31 | Non-Participating | Residential | 1.50 | 730614.49 | 4778344.91 | 196.50 |
| 1097 | 14.-2-44 | Non-Participating | Residential | 1.50 | 730691.19 | 4778401.67 | 197.32 |
| 1098 | 14.-2-44 | Non-Participating | Accessory | 1.50 | 730734.42 | 4778437.57 | 197.66 |
| 1099 | 14.-1-30 | Non-Participating | Accessory | 1.50 | 730620.25 | 4778435.33 | 195.38 |
| 1100 | 14.-1-30 | Non-Participating | Residential | 1.50 | 730614.75 | 4778452.56 | 194.75 |
| 1101 | 14.-2-45 | Non-Participating | Non-Residential | 1.50 | 730689.50 | 4778581.59 | 196.23 |
| 1102 | --- | Non-Participating | Non-Residential | 1.50 | 730701.72 | 4778604.19 | 196.44 |
| 1103 | 17.-1-26 | Non-Participating | Accessory | 1.50 | 731421.86 | 4774773.33 | 228.72 |
| 1104 | 17.-1-25 | Non-Participating | Residential | 1.50 | 731558.04 | 4774875.78 | 231.14 |
| 1105 | 17.-1-34 | Non-Participating | Residential | 1.50 | 731435.68 | 4774877.87 | 232.50 |
| 1106 | 17.-1-22.2 | Non-Participating | Residential | 1.50 | 731485.26 | 4774905.10 | 232.50 |
| 1107 | 17.-1-24.12 | Non-Participating | Residential | 1.50 | 731631.99 | 4774936.63 | 232.50 |
| 1108 | 17.-1-22.12 | Non-Participating | Residential | 1.50 | 731563.43 | 4774956.90 | 232.50 |
| 1109 | 17.-1-22.11 | Non-Participating | Residential | 1.50 | 731614.94 | 4774986.36 | 232.50 |
| 1110 | 17.-1-21 | Non-Participating | Residential | 1.50 | 731672.81 | 4775008.82 | 232.50 |
| 1111 | 17.-1-20 | Non-Participating | Residential | 1.50 | 731735.55 | 4775045.18 | 234.21 |
| 1112 | 17.-1-23.2 | Non-Participating | Residential | 1.50 | 731870.28 | 4775055.71 | 235.29 |
| 1113 | 12.-1-60./P | Non-Participating | Non-Residential | 1.50 | 722739.71 | 4776104.48 | 197.97 |
| 1114 | 12.-1-60./P | Non-Participating | Non-Residential | 1.50 | 722782.20 | 4776059.06 | 200.48 |
| 1115 | 12.-1-40 | Non-Participating | Residential | 1.50 | 723980.93 | 4775590.81 | 197.66 |
| 1116 | 12.-1-40 | Non-Participating | Accessory | 1.50 | 723965.18 | 4775611.29 | 197.28 |
| 1117 | 12.-1-35 | Non-Participating | Residential | 1.50 | 723869.54 | 4775409.57 | 197.01 |
| 1118 | 12.-1-47 | Non-Participating | Residential | 1.50 | 724018.76 | 4775410.66 | 201.71 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 1119 | 12.-1-37 | Non-Participating | Residential | 1.50 | 723925.93 | 4775409.25 | 199.69 |
| 1120 | 12.-1-34.2 | Non-Participating | Residential | 1.50 | 723723.24 | 4775401.57 | 196.65 |
| 1121 | 12.-1-36 | Non-Participating | Residential | 1.50 | 723904.36 | 4775405.38 | 198.98 |
| 1122 | 12.-1-47 | Non-Participating | Accessory | 1.50 | 724025.59 | 4775409.04 | 202.02 |
| 1123 | 12.-1-38 | Non-Participating | Residential | 1.50 | 723978.12 | 4775407.15 | 200.92 |
| 1124 | 12.-1-22 | Non-Participating | Residential | 1.50 | 724091.10 | 4775377.84 | 202.50 |
| 1125 | 12.-1-21 | Non-Participating | Residential | 1.50 | 724062.58 | 4775375.51 | 202.50 |
| 1126 | 12.-1-39 | Non-Participating | Accessory | 1.50 | 723955.79 | 4775531.40 | 197.70 |
| 1127 | 12.-1-55 | Non-Participating | Accessory | 1.50 | 723930.17 | 4775542.86 | 197.19 |
| 1128 | 12.-1-55 | Non-Participating | Residential | 1.50 | 723986.51 | 4775560.82 | 197.96 |
| 1129 | 12.-1-40 | Non-Participating | Accessory | 1.50 | 723954.89 | 4775581.99 | 197.31 |
| 1130 | --- | Participating | Accessory | 1.50 | 723433.34 | 4775173.82 | 200.13 |
| 1131 | 12.-1-25 | Non-Participating | Accessory | 1.50 | 723719.71 | 4775180.70 | 198.52 |
| 1132 | 12.-1-25 | Non-Participating | Accessory | 1.50 | 723721.38 | 4775169.65 | 198.23 |
| 1133 | 12.-1-18.2 | Non-Participating | Residential | 1.50 | 724013.07 | 4774868.60 | 200.78 |
| 1134 | 12.-1-19 | Non-Participating | Residential | 1.50 | 724019.70 | 4774833.10 | 201.77 |
| 1135 | 12.-1-48 | Non-Participating | Accessory | 1.50 | 724204.95 | 4775473.50 | 205.50 |
| 1136 | 12.-1-45.2 | Non-Participating | Accessory | 1.50 | 724106.19 | 4775460.65 | 203.50 |
| 1137 | 12.-1-48 | Non-Participating | Accessory | 1.50 | 724175.98 | 4775460.68 | 205.50 |
| 1138 | 12.-1-34.2 | Non-Participating | Accessory | 1.50 | 723747.12 | 4775430.92 | 196.50 |
| 1139 | 12.-1-35 | Non-Participating | Accessory | 1.50 | 723887.28 | 4775429.84 | 197.75 |
| 1140 | --- | Participating | Non-Residential | 1.50 | 723691.65 | 4775419.85 | 196.66 |
| 1141 | 12.-1-48 | Non-Participating | Residential | 1.50 | 724203.14 | 4775432.29 | 204.94 |
| 1142 | 12.-1-57 | Non-Participating | Residential | 1.50 | 724128.40 | 4775425.80 | 204.31 |
| 1143 | 12.-1-57 | Non-Participating | Accessory | 1.50 | 724139.65 | 4775433.08 | 204.92 |
| 1144 | 12.-1-46 | Non-Participating | Residential | 1.50 | 724057.56 | 4775423.59 | 202.50 |
| 1145 | 12.-1-36 | Non-Participating | Accessory | 1.50 | 723910.10 | 4775419.90 | 198.98 |
| 1146 | 12.-1-54 | Non-Participating | Residential | 1.50 | 723628.31 | 4775362.25 | 197.74 |
| 1147 | 12.-1-15 | Non-Participating | Residential | 1.50 | 723976.67 | 4775374.91 | 202.01 |
| 1148 | 12.-1-16 | Non-Participating | Residential | 1.50 | 723951.89 | 4775370.80 | 201.08 |
| 1149 | 12.-1-17 | Non-Participating | Residential | 1.50 | 723882.86 | 4775366.57 | 198.12 |
| 1150 | 12.-1-39 | Non-Participating | Residential | 1.50 | 723970.79 | 4775503.66 | 198.24 |
| 1151 | 12.-1-14 | Non-Participating | Residential | 1.50 | 723996.62 | 4775356.90 | 202.50 |
| 1152 | 12.-1-22 | Non-Participating | Accessory | 1.50 | 724100.95 | 4775356.75 | 202.50 |
| 1153 | 12.-1-17 | Non-Participating | Accessory | 1.50 | 723897.38 | 4775347.01 | 198.74 |
| 1154 | 12.-1-14 | Non-Participating | Accessory | 1.50 | 723987.76 | 4775343.12 | 202.50 |
| 1155 | 12.-1-22 | Non-Participating | Accessory | 1.50 | 724089.76 | 4775331.56 | 202.50 |
| 1156 | 12.-1-24 | Non-Participating | Residential | 1.50 | 723988.28 | 4775310.70 | 202.50 |
| 1157 | 12.-1-33.21 | Non-Participating | Accessory | 1.50 | 723425.55 | 4775271.22 | 201.70 |
| 1158 | 12.-1-24 | Non-Participating | Accessory | 1.50 | 723965.95 | 4775285.25 | 201.45 |
| 1159 | 12.-1-24 | Non-Participating | Accessory | 1.50 | 723990.47 | 4775287.14 | 202.19 |
| 1160 | 12.-1-33.21 | Non-Participating | Residential | 1.50 | 723404.91 | 4775233.87 | 201.94 |
| 1161 | 12.-1-25 | Non-Participating | Residential | 1.50 | 723727.22 | 4775204.79 | 197.95 |

**Table 7-2.1: Modeled Receptors in the Cadna/A Model**

| Receptor ID | Tax Code | Participation Status | Receptor Category | Relative Receptor Height | Coordinates UTM NAD83 Zone 17N (meters) | | Elevation + Receptor Height |
|---|---|---|---|---|---|---|---|
| | | | | | X | Y | Z |
| | | | | (m) | (m) | (m) | (m) |
| 1162 | --- | Participating | Residential | 1.50 | 723409.48 | 4775188.17 | 200.77 |
| 1163 | --- | Participating | Accessory | 1.50 | 723347.01 | 4775180.57 | 200.97 |
| 1164 | 6.-1-3 | Non-Participating | Residential | 1.50 | 722733.09 | 4773217.91 | 206.12 |
| 1165 | 6.-1-36.111 | Non-Participating | Accessory | 1.50 | 723372.96 | 4773236.77 | 211.08 |
| 1166 | 6.-1-36.111 | Non-Participating | Residential | 1.50 | 723345.91 | 4773213.76 | 210.74 |
| 1167 | --- | Non-Participating | Residential | 1.50 | 722686.66 | 4773151.26 | 207.64 |
| 1168 | --- | Non-Participating | Accessory | 1.50 | 722600.14 | 4773139.59 | 208.50 |
| 1169 | --- | Non-Participating | Residential | 1.50 | 722619.71 | 4773148.87 | 208.30 |
| 1170 | 6.-1-4.2 | Non-Participating | Residential | 1.50 | 722930.96 | 4773236.57 | 205.50 |
| 1171 | 6.-1-4.2 | Non-Participating | Accessory | 1.50 | 722945.38 | 4773230.07 | 205.50 |
| 1172 | 6.-1-5 | Non-Participating | Non-Residential | 1.50 | 723302.27 | 4773252.98 | 208.99 |
| 1173 | 13.-1-58.11 | Non-Participating | Accessory | 1.50 | 726930.00 | 4777108.39 | 210.15 |
| 1174 | 13.-1-58.11 | Non-Participating | Accessory | 1.50 | 726914.14 | 4777104.19 | 209.05 |
| 1175 | 13.-1-58.11 | Non-Participating | Accessory | 1.50 | 726910.46 | 4777086.32 | 208.38 |
| 1176 | 13.-1-54 | Non-Participating | Residential | 1.50 | 727473.19 | 4777362.36 | 229.83 |
| 1177 | 13.-1-55 | Non-Participating | Accessory | 1.50 | 727355.34 | 4777313.86 | 226.71 |
| 1178 | 13.-1-55 | Non-Participating | Residential | 1.50 | 727341.32 | 4777309.54 | 226.29 |
| 1179 | 13.-1-96.11 | Non-Participating | Accessory | 1.50 | 727155.94 | 4777298.13 | 219.63 |
| 1180 | 13.-1-96.11 | Non-Participating | Accessory | 1.50 | 727150.41 | 4777289.92 | 219.71 |
| 1181 | 13.-1-56.2 | Non-Participating | Residential | 1.50 | 727424.83 | 4777261.94 | 227.96 |
| 1182 | 13.-1-57.2 | Non-Participating | Residential | 1.50 | 727143.38 | 4777202.69 | 219.97 |
| 1183 | 13.-1-60.11 | Non-Participating | Accessory | 1.50 | 727101.13 | 4777166.61 | 218.20 |
| 1184 | 13.-1-58.11 | Non-Participating | Residential | 1.50 | 726878.49 | 4777103.97 | 207.45 |
| 1185 | 13.-1-96.11 | Non-Participating | Residential | 1.50 | 727168.71 | 4777318.85 | 219.26 |

# APPENDIX 7-A.3: AMBIENT PRE-CONSTRUCTION SOUND LEVEL MEASUREMENT PROGRAM

# CIDER SOLAR PROJECT

# PRE-CONSTRUCTION SOUND LEVEL MEASUREMENT PROGRAM



*Prepared for:*

***Cider Solar Farm***
*c/o Hecate Energy LLC*
*621 W. Randolph St*
*Chicago, IL 60661*

*Prepared by:*

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April 16, 2021

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# 1.0 BASELINE SOUND LEVEL MONITORING PROGRAM

To characterize the existing soundscape of the Project area, an ambient (baseline) monitoring program was conducted in accordance with the NYS Office of Renewable Energy (ORES) Section 94-c Section 900-2.8(i) Exhibit 7: Noise and Vibration requirements. This section outlines the methodology and results of the ambient program.

## 1.1 Sound Level Measurement Locations

In accordance with ANSI S12.9-1992/Part 2 (R2013), the deterministic spatial sampling technique was used to select measurement locations. In other words, sound monitoring locations were selected to be representative of nearby residences in various directions from the solar project. Thus, the selected locations are representative of potentially impacted receptors. The program was intended to measure total ambient sound in the area which includes all noise sources.

One sound level measurement program was conducted at nine (9) locations for approximately nine (9) days which is well beyond the minimum requirement of four (4) days for a solar facility in the Section 94-c regulations. Figure 1-1 shows the measurement locations for the measurement program. The ambient measurement locations are representative of the general vicinity of the Project. Each sound level monitoring location is described in the following subsections.

The coordinates for the sound level measurement locations are listed in Table 1-1, which were slightly adjusted as needed from the field-measured Global Positioning System (GPS) points for refined accuracy.

**Table 1-1 GPS Coordinates – Sound Level Measurement Locations**

| Location | Latitude | Longitude |
|---|---|---|
| Location 1 | 43.1088° | -78.1769° |
| Location 2 | 43.0994° | -78.1696° |
| Location 3 | 43.0896° | -78.1618° |
| Location 4 | 43.0909° | -78.1826° |
| Location 5 | 43.1039° | -78.2130° |
| Location 6 | 43.0983° | -78.2245° |
| Location 7 | 43.0802° | -78.2167° |
| Location 8 | 43.0893° | -78.2475° |
| Location 9 | 43.0961° | -78.2774° |

G:\Projects2\NY\5816\MXD\1-1_Baseline_Sound_Level_Measurement_Locations.mxd

Data Source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services

**LEGEND**

- Sound Monitoring Location
- Inverter
- Accessory Receptor
- Non-Residential Receptor
- Residential Receptor
- Substation
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Solar Array
- Laydown Area
- Project Boundary
- NYS DEC Lands
- Town Boundary
- County Boundary
- State Route
- County Road

Scale 1:42,000
1 inch = 3,500 feet
0 1,750 3,500 Feet

*Basemap: World Imagery, Esri*

**Cider Solar** **Genesee County, New York**

**Figure 1-1**
*Baseline Sound Monitoring Locations*

### *1.1.1 Location 1— Oak Orchard Road*

One continuous programmable, unattended sound level meter was placed near Oak Orchard Road in the Town of Elba. The meter was placed approximately 100 feet east of the road near a crop field. This location is representative of existing sound levels in the northeastern area of the project site and along Oak Orchard Road. Refer to Figure 1-2 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 4:30 p.m. Wednesday, August 26, 2020 until 2:50 p.m. on Thursday, September 3, 2020. In total, 1,142 10-minute measurement periods were recorded during the measurement program.

Figure 1-2 Location 1 -- Sound Level Meter



### *1.1.2 Location 2—N. Byron Road*

One continuous programmable, unattended sound level meter was placed near N. Byron Road in the Town of Elba. The meter was placed approximately 100 feet south of the road and is representative of existing sound levels in the eastern area of the Project Site and along N. Byron Road. Refer to Figure 1-3 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 3:30 p.m. Wednesday, August 26, 2020 until 2:00 p.m. on Thursday, September 3, 2020. In total, 1,144 10-minute measurement periods were recorded during the measurement program.

In addition to sound data collection, continuous ground-level wind speed data were collected at this location during the monitoring program. The meteorological equipment setup is shown in Figure 1-4.

Figure 1-3 Location 2 - Sound Level Meter



Figure 1-4 Location 2 - Meteorological Tower



### *1.1.3 Location 3 – Barrville Road*

One continuous programmable, unattended sound level meter was placed near Barrville Road in the Town of Elba. The meter was placed approximately 140 feet north of the road and is representative of existing sound levels in the southeastern area of the Project Site and along Barrville Road. Refer to Figure 1-5 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 2:50 p.m. Wednesday, August 26, 2020 until 1:30 p.m. on Thursday, September 3, 2020. In total, 1,145 10-minute measurement periods were recorded during the measurement program.

Figure 1-5 Location 3 - Sound Level Meter



### *1.1.4 Location 4 – Oak Orchard Road*

One continuous programmable, unattended sound level meter was placed near Oak Orchard Road in the Town of Elba. The meter was placed approximately 95 feet east of the road and is representative of existing sound levels in the southeastern area of the Project Site and along Oak Orchard Road. Refer to Figure 1-6 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 2:10 p.m. Wednesday, August 26, 2020 until 1:00 p.m. on Thursday, September 3, 2020. In total, 1,146 10-minute measurement periods were recorded during the measurement program.

Figure 1-6 Location 4 - Sound Level Meter



### *1.1.5 Location 5 – Graham Road*

One continuous programmable, unattended sound level meter was placed along Graham Road in the Town of Elba. The meter was placed approximately 95 feet west of the road and is representative of existing sound levels in the north-central area of the Project Site and along Graham Road. Refer to Figure 1-7 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 1:00 p.m. Wednesday, August 26, 2020 until 12:40 p.m. on Thursday, September 3, 2020. In total, 1,151 10-minute measurement periods were recorded during the measurement program.

Figure 1-7 Location 5 - Sound Level Meter

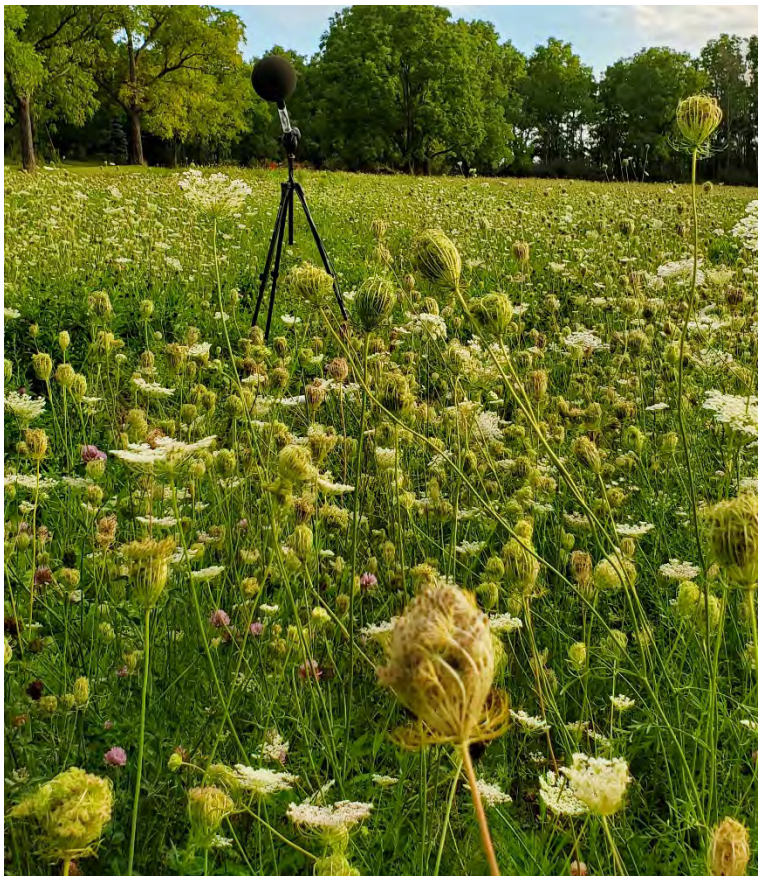


### *1.1.6 Location 6 — Lockport Road*

One continuous programmable, unattended sound level meter was placed near Lockport Road in the Town of Elba. The meter was placed approximately 105 feet south of the road and is representative of existing sound levels in the central area of the Project Site and along Lockport Road. Refer to Figure 1-8 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 12:10 p.m. Wednesday, August 26, 2020 until 12:10 p.m. on Thursday, September 3, 2020. In total, 1,153 10-minute measurement periods were recorded during the measurement program.

Figure 1-8 Location 6 - Sound Level Meter



### *1.1.7 Location 7 — Weatherwax Road*

One continuous programmable, unattended sound level meter was placed near Weatherwax Road in the Town of Elba. The meter was placed approximately 70 feet west of the road and is representative of existing sound levels in the south-central area of the Project Site and along Weatherwax Road. Refer to Figure 1-9 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 9:50 a.m. Wednesday, August 26, 2020 until 11:50 a.m. on Thursday, September 3, 2020. In total, 1,165 10-minute measurement periods were recorded during the measurement program.

Figure 1-9 Location 7 - Sound Level Meter



### *1.1.8 Location 8 — Fisher Road*

One continuous programmable, unattended sound level meter was placed near Fisher Road in the Town of Oakfield. The meter was placed approximately 120 feet west of the road and is representative of existing sound levels in the southwestern area of the Project Site and along Fisher Road. Refer to Figure 1-10 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 11:20 a.m. Wednesday, August 26, 2020 until 10:50 a.m. on Thursday, September 3, 2020. In total, 1,150 10-minute measurement periods were recorded during the measurement program.

In addition to sound data collection, continuous ground-level wind speed data were collected at this location. The meteorological equipment setup is shown in Figure 1-11.

Figure 1-10 Location 8 - Sound Level Meter



Figure 1-11 Location 8 - Meteorological Tower



### *1.1.9 Location 9 — Lockport Road*

One continuous programmable, unattended sound level meter was placed near Lockport Road in the Town of Oakfield. The meter was placed approximately 140 feet south of the road and is representative of existing sound levels in the western area of the Project Site and along Lockport Road. Refer to Figure 1-12 for a photo of the monitoring setup.

The meter continuously measured and stored broadband (A-weighted) and one-third octave band sound level statistics from 10:30 a.m. Wednesday, August 26, 2020 until 6:30 p.m. on Wednesday, September 2, 2020. In total, 985 10-minute measurement periods were recorded during the measurement program. The sound level meter at this location shut down one day early when compared to the other locations due to an external power failure.

Figure 1-12 Location 9 - Sound Level Meter



## 1.2 Sound Level Measurement Instrumentation

Each of the monitoring locations used either a Larson Davis (LD) model 831[1] sound level meter (SLM), a Norsonic model Nor140[2] SLM, or a Brüel & Kjær (B&K) model Type 2250[3] to measure both A-weighted (dBA) and one third octave bands from 6.3Hz to 20,000Hz. A one-second time history data collection using the "fast" response setting was also implemented. The meters logged data every 10-minutes with statistical data for the $L_{eq}$ and $L_{90}$ among other parameters.

Each instrument was equipped with a LD PRM 831 preamplifier and a PCB 377B20 or a PCB 377C20 half inch microphone, a Norsonic Nor1209 preamplifier and a G.R.A.S 40AN half inch microphone, or a B&K Type 4952 preamplifier and microphone along with an environmental protection kit. The kit included a 7-inch open cell foam wind screen to reduce wind-induced noise over the microphone. A peer-reviewed study presenting the windscreen insertion loss data by one-third octave band for each wind screen used in the background monitoring is provided in Appendix A. Since all measured sound level results are presented in terms of ANS weighting (see discussion in section 2.1), frequencies above 1250 Hz are not included, and thus the minor microphone insertion losses at higher frequencies are not relevant.

Microphones were tripod-mounted at a height of approximately five feet (1.5 meters) above ground level in accordance with ANSI S12.9-1992/Part 2 (R2013). Horizontal microphone placements near roadways were in accordance with ANSI S12.9-1992/Part 2 (R2013) for open land.

The LD831, Nor140, and B&K2250 meters meet Type 1 ANSI/ASA S1.4, ANSI S1.43-1997 (R2007), and IEC 61672 Class 1 standards for sound level meters and were calibrated and certified as accurate to standards set by the National Institute of Standards and Technology. The octave band filters for all instrumentation meet ANSI S1.11-2004 (R2009). These calibrations were conducted by an independent laboratory within 12 months of field placement and certificates of calibration are provided in Appendix B. All measurement equipment was calibrated in the field before and after the surveys with the manufacturer's acoustical calibrator which meets the standards of IEC 60942-2003 Class 1L and ANSI/ASA S1.40-2006 (R2016).

## 1.3 Meteorological Instrumentation

### *1.3.1 Ground Level Winds*

Wind speed can have a strong influence on ambient sound levels. In order to understand how the existing sound levels are influenced by wind speed, a HOBO H21-002 micro-weather station (manufactured by Onset Computer Corporation) with tripod and data logger was used to record continuous wind speed data at Location 5 and Location 8.

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[1] Noise floor specified in manufacturer's manual with use of PRM831 preamplifier and 377B02 microphone for A-weighted sound pressure levels is 18dBA at a 0dB gain and 17dBA at a 20dB gain. Noise floor specified for Z-weighted sound pressure levels is 23dBA at a 0dB gain and 21dBA at a 20dB gain.

[2] Noise floor specified in manufacturer's manual A-weighted sound pressure levels is 25dBA with self-noise of the SLM at 15dBA.

[3] Noise floor specified in manufacturer's manual A-weighted sound pressure levels is 17 dBA.

The HOBO wind instruments have a measurement range of 0 to 44 m/s (99 mph) or 0 to 45 m/s (100 mph) and an accuracy of +/- 0.5 m/s (1.1 mph) or +/- 1.1 m/s (2.4 mph). The starting threshold is 0.5 m/s (1.1 mph) or ≤1.0 m/s (2.2 mph).

### *1.3.2 Precipitation, Temperature, and Relative Humidity*

Precipitation, temperature, and relative humidity data from the New York State Mesonet system were collected during the measurements. The New York State Mesonet consists of 125 state-of-the-art environmental monitoring stations and serves as the foundation of an Early Warning Severe Weather Detection network for the entire State of New York. The New York State Mesonet was developed by research scientists at the State University of New York (SUNY) at Albany's Atmospheric Sciences Research Center, and Department of Atmospheric and Environmental Sciences. Mesonet sites are distributed statewide with every county across New York having at least one or more sites. The Mesonet collects measurements of several surface and atmospheric variables, such as temperature, relative humidity, wind speed and direction, surface pressure, soil moisture, soil temperature, solar radiation, and precipitation amounts for rainfall and snow accumulation. These data are archived and available to the public.

The Batavia Mesonet station is located approximately 5.6 miles south-southeast from the closest Cider Solar sound level measurement location. This Mesonet station is the closest to the Project site. The SUNY Mesonet data from the Batavia station is provided in Appendix C of this report.

## 1.4 Low Frequency and Infrasound Monitoring

Although not relevant to solar energy projects, all monitoring locations were equipped to measure existing levels of low frequency and infrasound down to 6.3 Hz for informational purposes.

# 2.0 BASELINE SOUND LEVEL MONITORING RESULTS

This chapter discusses the results from the detailed ambient (baseline) monitoring program outlined in the previous chapter. Specifically, the logic for data validity, and sound level result descriptions for the monitoring locations are explained.

## 2.1 Data Formatting Overview

Sound level data were collected in 10-minute intervals[4] at nine strategically selected locations around the proposed solar energy project. Monitoring periods that experienced elevated ground-level wind speeds or precipitation were excluded from the data analysis per Method #1 in ANSI S12.18-1994. According to this standard, "No sound level measurement shall be made when the average wind velocity exceeds 5 m/s when measured at a height of 2±0.2 m above the ground". In addition, "Measurement during precipitation […] is highly discouraged". Precipitation events identified at the SUNY MesoNet station in Batavia, NY defined periods for which sound level data were excluded from the analysis for the measurement program. By convention, daytime is defined as the hours from 7:00 AM through 9:59 PM and nighttime is defined as the hours from 10:00 PM through 6:59 AM.

The sound level equipment used in ambient monitoring have specifications regarding operative ranges under certain air conditions, e.g., temperature and relative humidity.[5,6] Data from the Batavia MesoNet station was additionally referenced for the range exceedances during all measurement timeframes. Sound levels during these exceedances were excluded from further processing.

Intermittent noise was automatically filtered by using the $L_{90}$ statistic. Seasonal noise was removed from the ambient sound level measurements regardless of season. A high-frequency natural sound (HFNS) filter was applied to the measured one-third octave-band data from which a broadband sound level was calculated for the monitoring period. This technique removes all sound energy above the 1,250 Hertz frequency band. The methodology for the filtration process is as specified in ANSI/ASA S12.100-2014 as required by Section 900-2.8(i) of the Section 94-c regulations. The calculated sound pressure levels presented in Chapter 3 of this report using this methodology are indicated as ANS-weighted levels (presented in dBA). The "as-measured"

[4] It should be noted that all sound level instrumentation and ground level meteorological instrumentation were time-synchronized to align the monitoring periods.

[5] Periods measured outside the temperature range of 14°F to 122°F were considered invalid due to the Larson Davis Model 831 SLM and specifications.

[6] Periods measured outside the relative humidity range of 1 to 99% were considered invalid based on microphone specifications. The accuracy of sound levels measured with a Larson Davis Model 831 SLM outside the relative humidity range of 25% to 90% is unknown; however, the data are not considered invalid and are included in the data summaries. The same is true for sound levels measured with a Norsonic Nor140 SLM outside the range of 5% to 90% relative humidity and for the sound levels measured with a B&K 2250 outside the range of 0% to 90% relative humidity.

broadband A-weighted (dBA) $L_{eq}$ and $L_{90}$ and one-third octave band ambient sound levels are presented graphically for each location in the following subsections. The one-third octave-band data span the frequencies from 12.5 Hz to 10,000 Hz.

## 2.2 Location 1 – Oak Orchard Road

Sound levels at Location 1 were influenced by vehicular traffic, farming equipment and operations, ATVs, birds (including roosters), insects, wind, vegetation rustle, lawn mower, and a small nearby stream. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-1. This figure includes ground-level wind speeds measured at Location 2. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 176 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 966 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 1 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-2, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spikes" in the 2500 Hz and 5000 Hz octave bands for the nighttime measurement period were likely due to insect activity and the "spike" in the 8000 Hz octave band for the daytime measurement period was likely due to bird and insect activity.

## 2.3 Location 2 – N. Byron Road

Sound levels at Location 2 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, dogs, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-3. This figure includes ground-level wind speeds measured at Location 2. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 167 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 977 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 2 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-4, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 3150 Hz octave band for the nighttime measurement period was likely due to insect activity.

## 2.4 Location 3 – Barrville Road

Sound levels at Location 3 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, dogs, lawn mower, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-5. This figure includes ground-level wind speeds measured at Location 2. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or

precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 182 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 963 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 3 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-6, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spikes" in the 2500 Hz and 5000 Hz octave bands for the nighttime measurement period were likely due to insect activity.

## 2.5 Location 4 – Oak Orchard Road

Sound levels at Location 4 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, lawn mower, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-7. This figure includes ground-level wind speeds measured at Location 2. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 184 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 962 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 4 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-8, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 5000 Hz octave band for the daytime and nighttime measurement period were likely due to bird and insect activity.

## 2.6 Location 5 – Graham Road

Sound levels at Location 5 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, dogs, cattle, overhead transmission lines, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-9. This figure includes ground-level wind speeds measured at Location 8. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 77 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,074 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 5 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-10, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spikes" in the 3150

Hz and 5000 Hz octave bands for the nighttime measurement period were likely due to insect activity, and the "spikes" in the 5000 Hz and 8000 Hz octave bands during the daytime measurement are likely due to bird and insect activity.

## 2.7 Location 6 – Lockport Road

Sound levels at Location 6 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, dogs, homeowner activities, electrical power line repairs, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-11. This figure includes ground-level wind speeds measured at Location 8. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 77 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,076 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 6 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-12, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 5000 Hz octave band for the nighttime measurement period is likely due to insect activity, and the "spikes" in the 5000 Hz and 8000 Hz octave bands for the daytime measurements are likely due to bird and insect activity.

## 2.8 Location 7 – Weatherwax Road

Sound levels at Location 7 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, wildlife, distant music from a stereo system, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-13. This figure includes ground-level wind speeds measured at Location 8. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 77 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,088 10-minute periods of valid data.

In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 7 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-14, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spikes" in the 3150 Hz and 5000 Hz octave bands for the nighttime measurement period were likely due to insect activity.

## 2.9 Location 8 – Fisher Road

Sound levels at Location 8 were influenced by vehicular traffic, birds, insects, wind, vegetation rustle, ATVs and/or dirt bikes, homeowner activities, lawn mower, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are

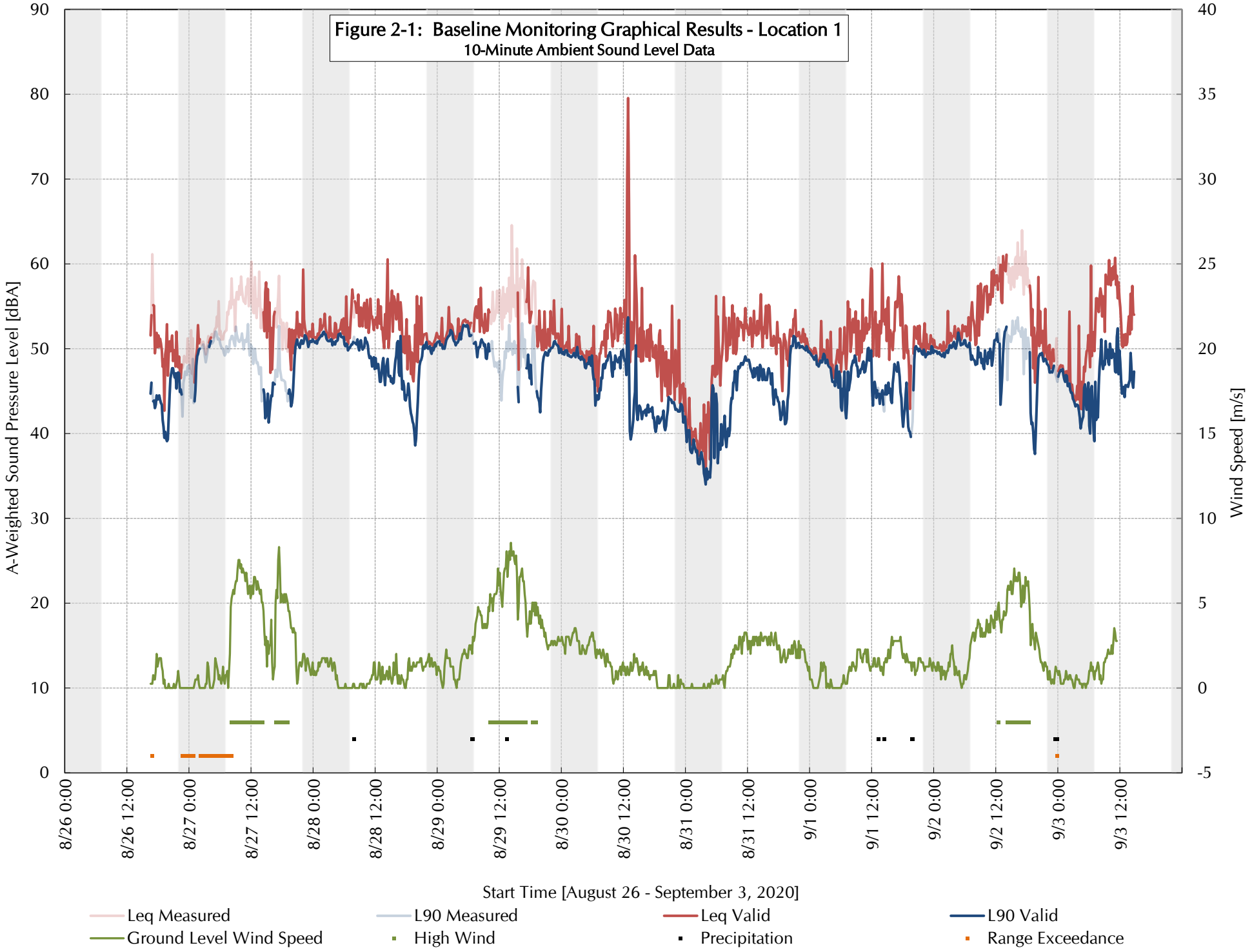
presented graphically in Figure 2-15. This figure includes ground-level wind speeds measured at Location 8. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 77 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 1,073 10-minute periods of valid data.

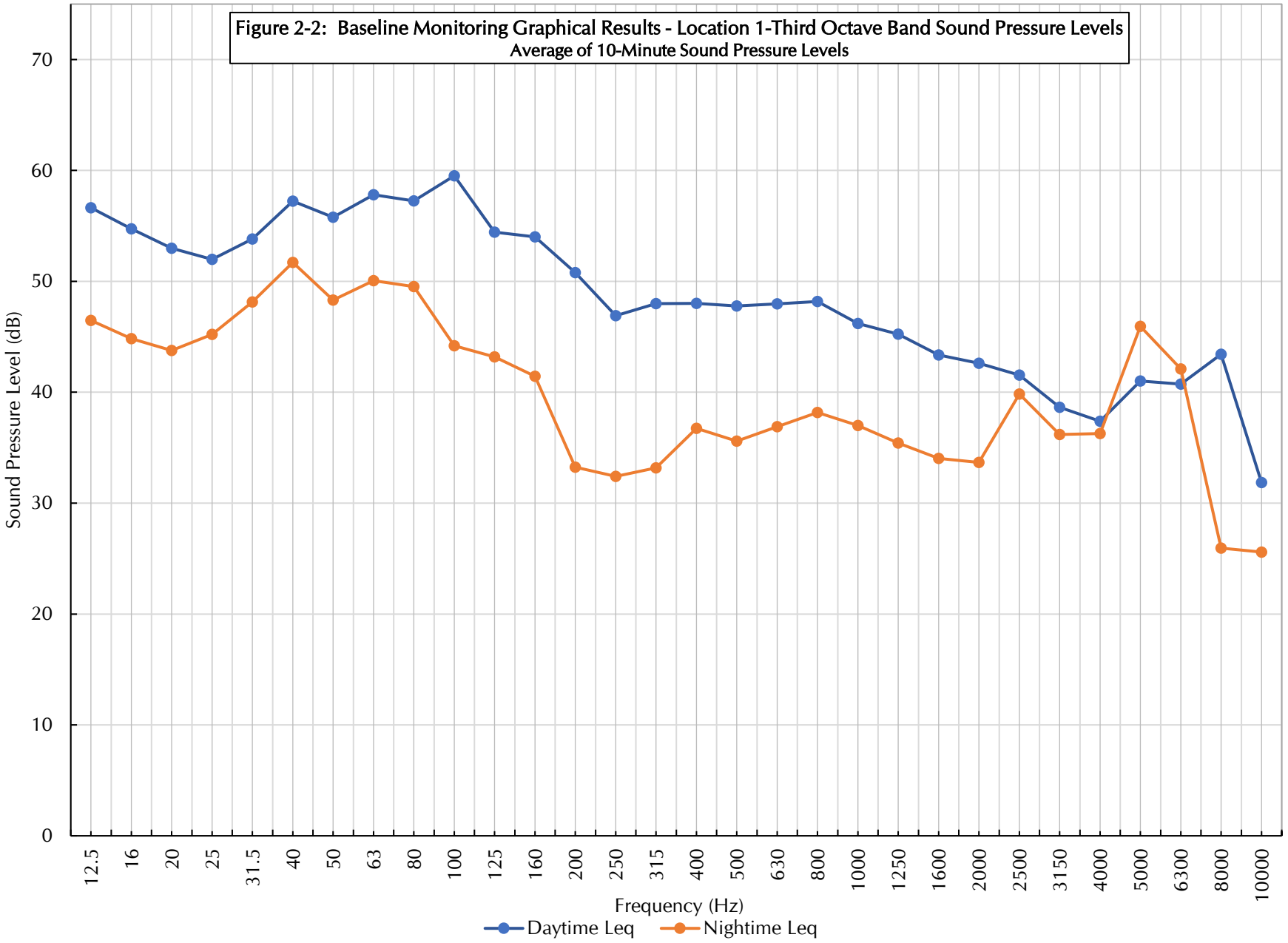
In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 8 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-16, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 5000 Hz octave band for the nighttime measurement period was likely due to insect activity, and the "spikes" in the 5000 Hz and 8000 Hz octave bands for the daytime measurement were likely due to bird and insect activity.

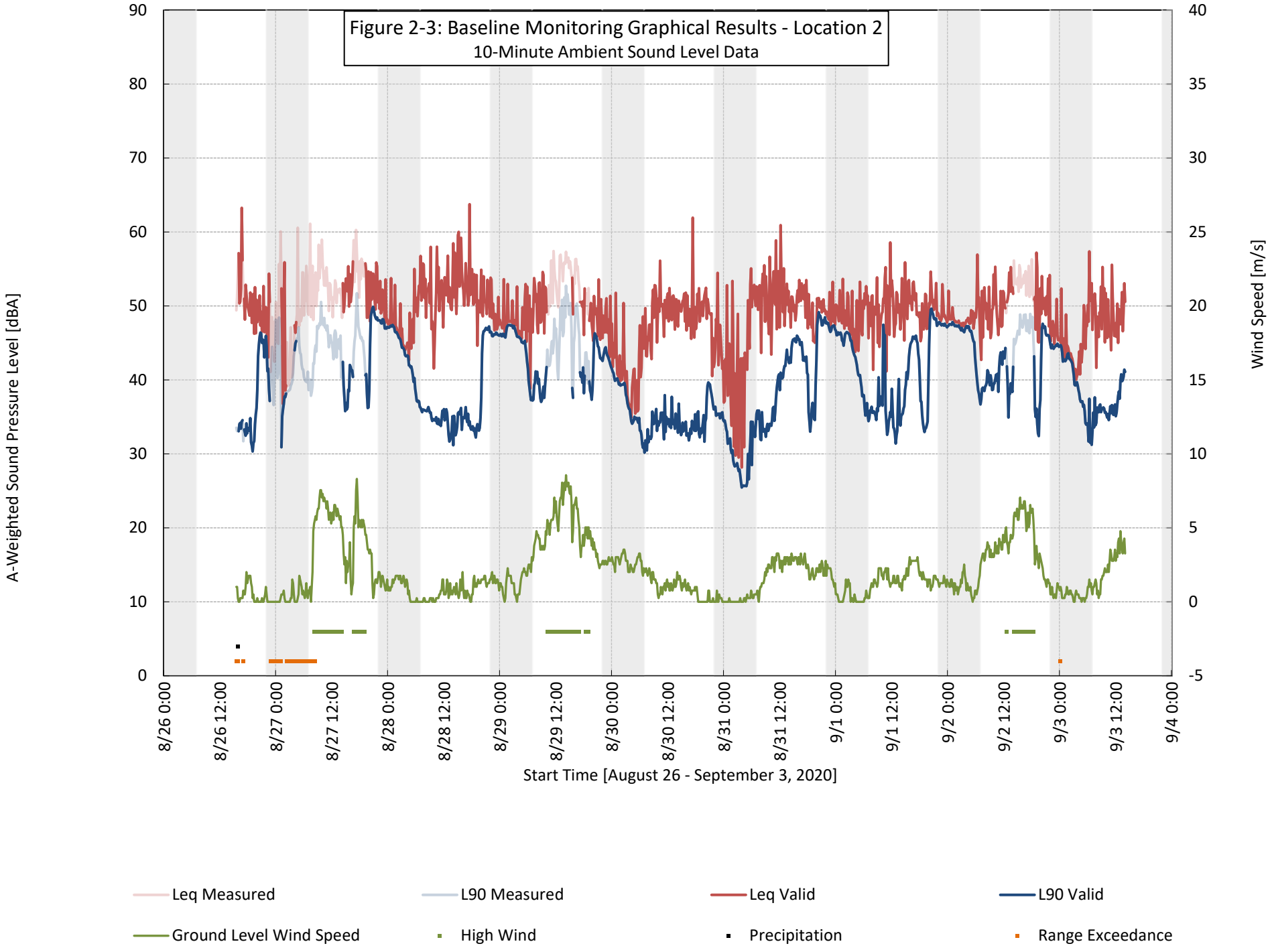
## 2.10 Location 9 – Graham Road

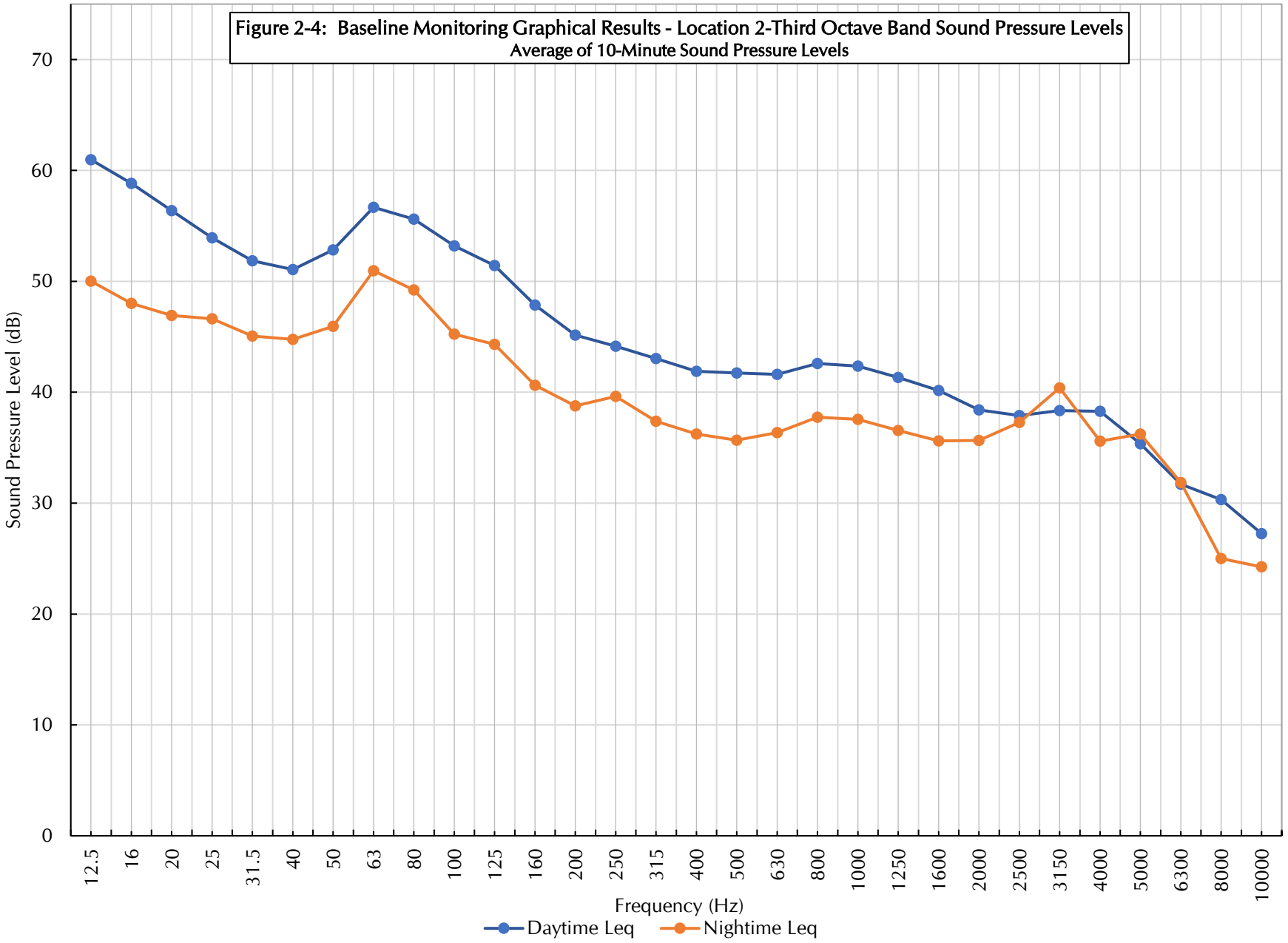
Sound levels at Location 9 were influenced by vehicular traffic, birds (including roosters and cranes), insects, wind, vegetation rustle, a low frequency hum, and occasional aircraft. The measured A-weighted $L_{eq}$ and $L_{90}$ sound pressure levels during the measurement program are presented graphically in Figure 2-17. This figure includes ground-level wind speeds measured at Location 8. Data that were excluded from further analysis due to ground-level winds exceeding 5 m/s measured within the project area, or precipitation or instrumentation operative exceedances as recorded at the Batavia MesoNet station, are identified in the figure. A total of 65 10-minute periods were excluded from the measurement analysis. The resulting dataset includes a total of 920 10-minute periods of valid data.

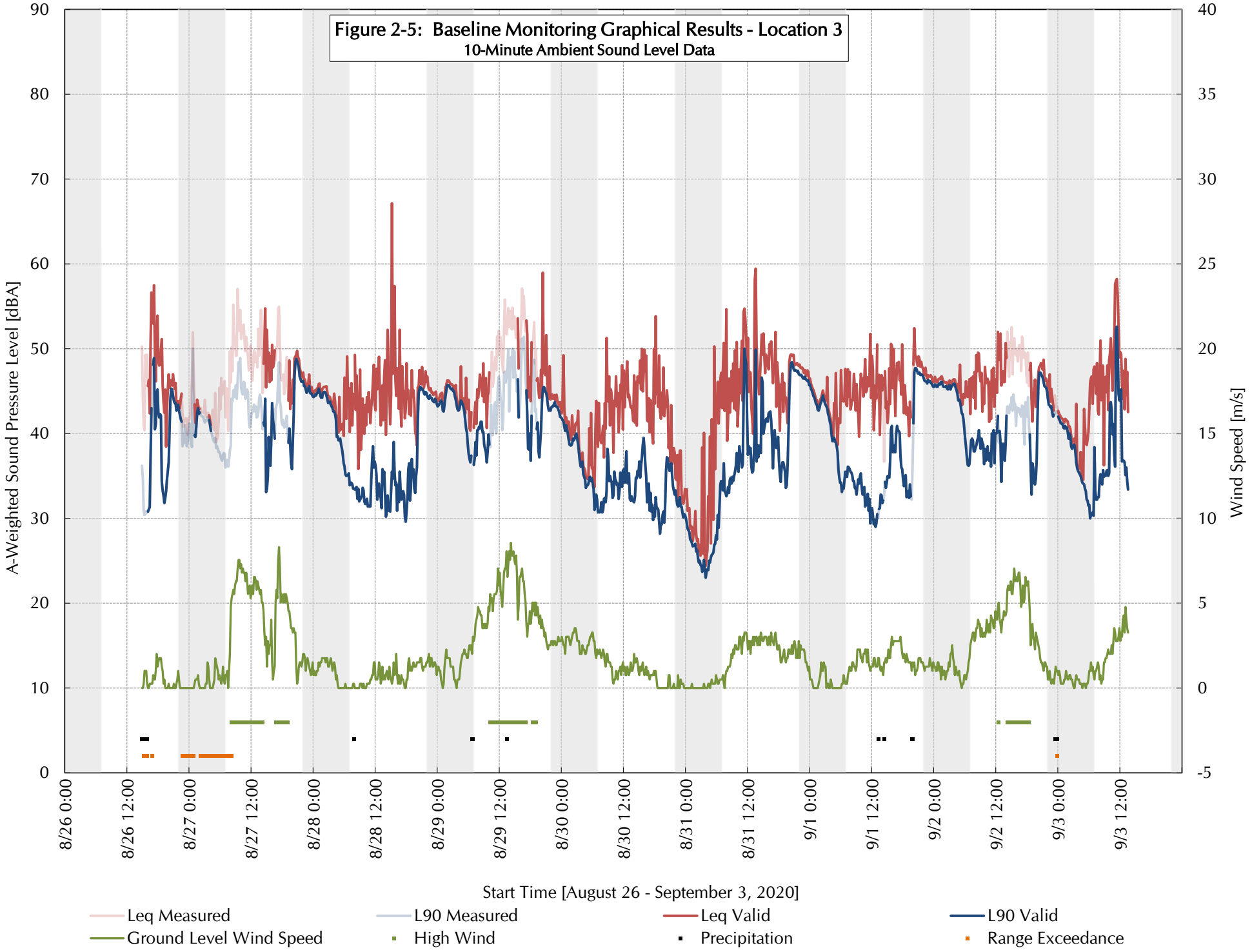
In addition to broadband sound levels, spectral sound level data were measured during each 10-minute period at Location 9 during the measurement program. Using only valid measurement periods, one-third octave-band data are summarized in Figure 2-18, as logarithmic averages of the equivalent ($L_{eq}$) sound levels; separated by daytime and nighttime. The "spike" in the 5000 Hz octave band for the nighttime measurement period was likely due to insect activity.

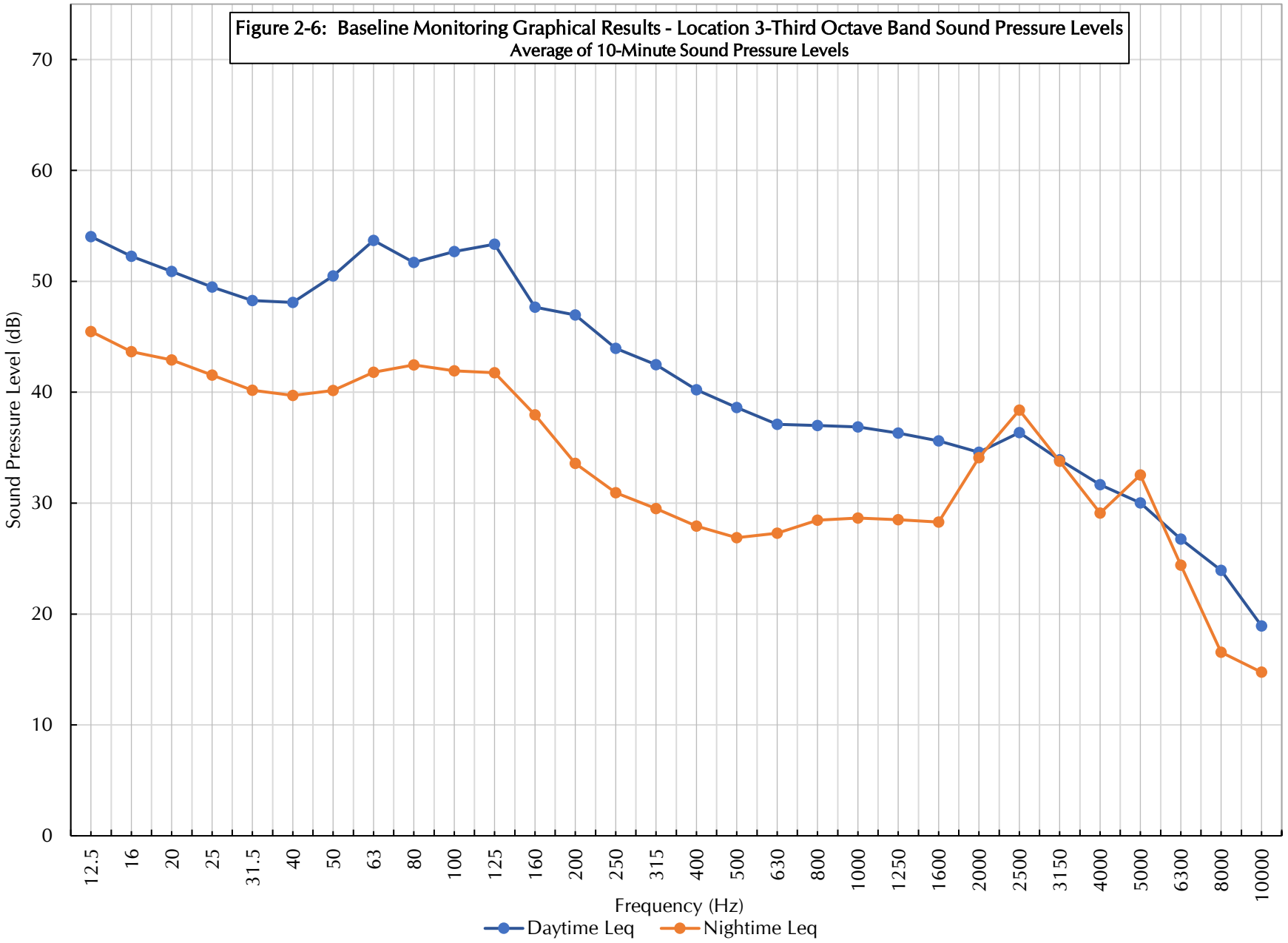

Figure 2-1: Baseline Monitoring Graphical Results - Location 1
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

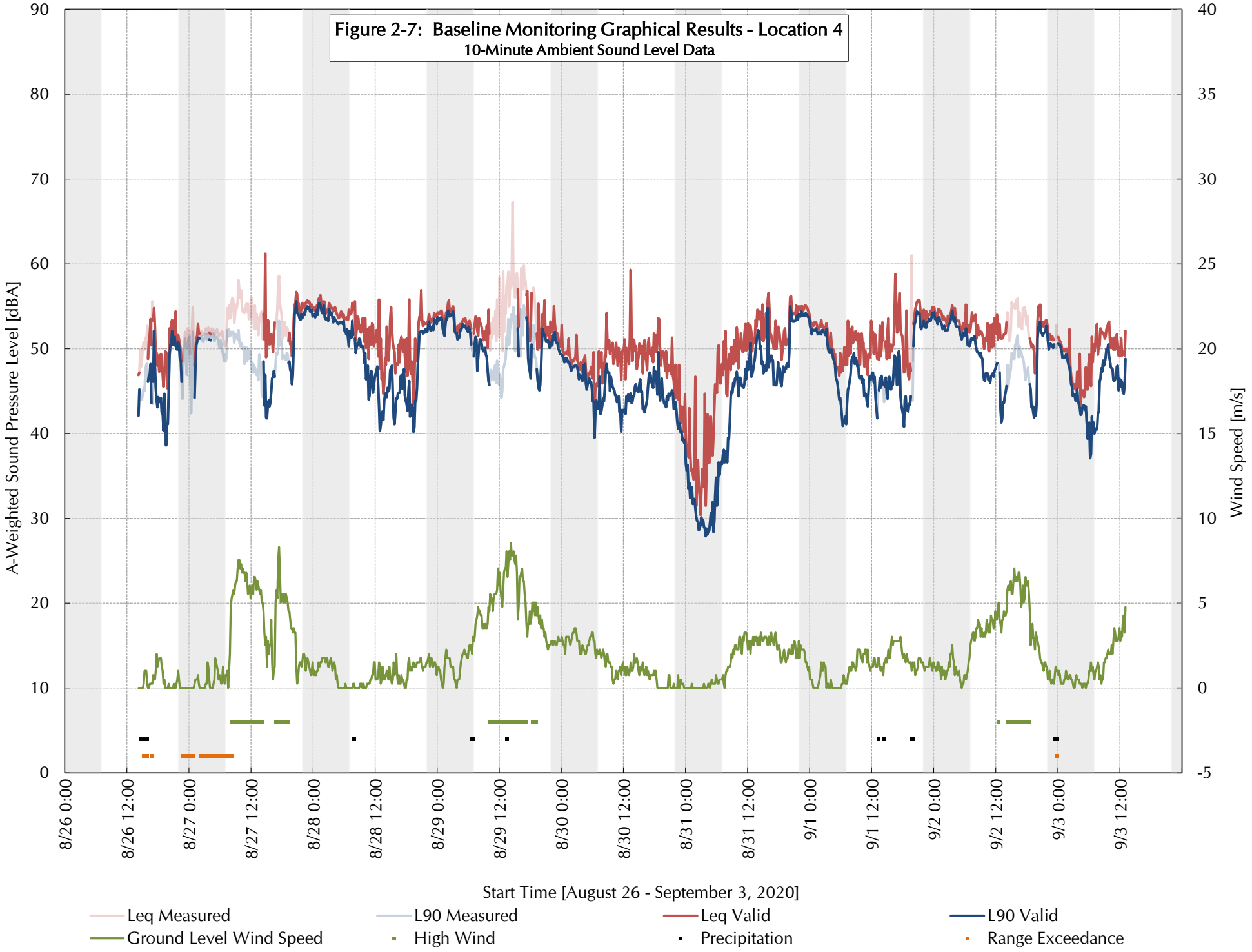

Figure 2-2: Baseline Monitoring Graphical Results - Location 1-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels
Sound Pressure Level (dB)
0
10
20
30
40
50
60
70
12.5
16
20
25
31.5
40
50
63
80
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
Frequency (Hz)
Daytime Leq
Nightime Leq

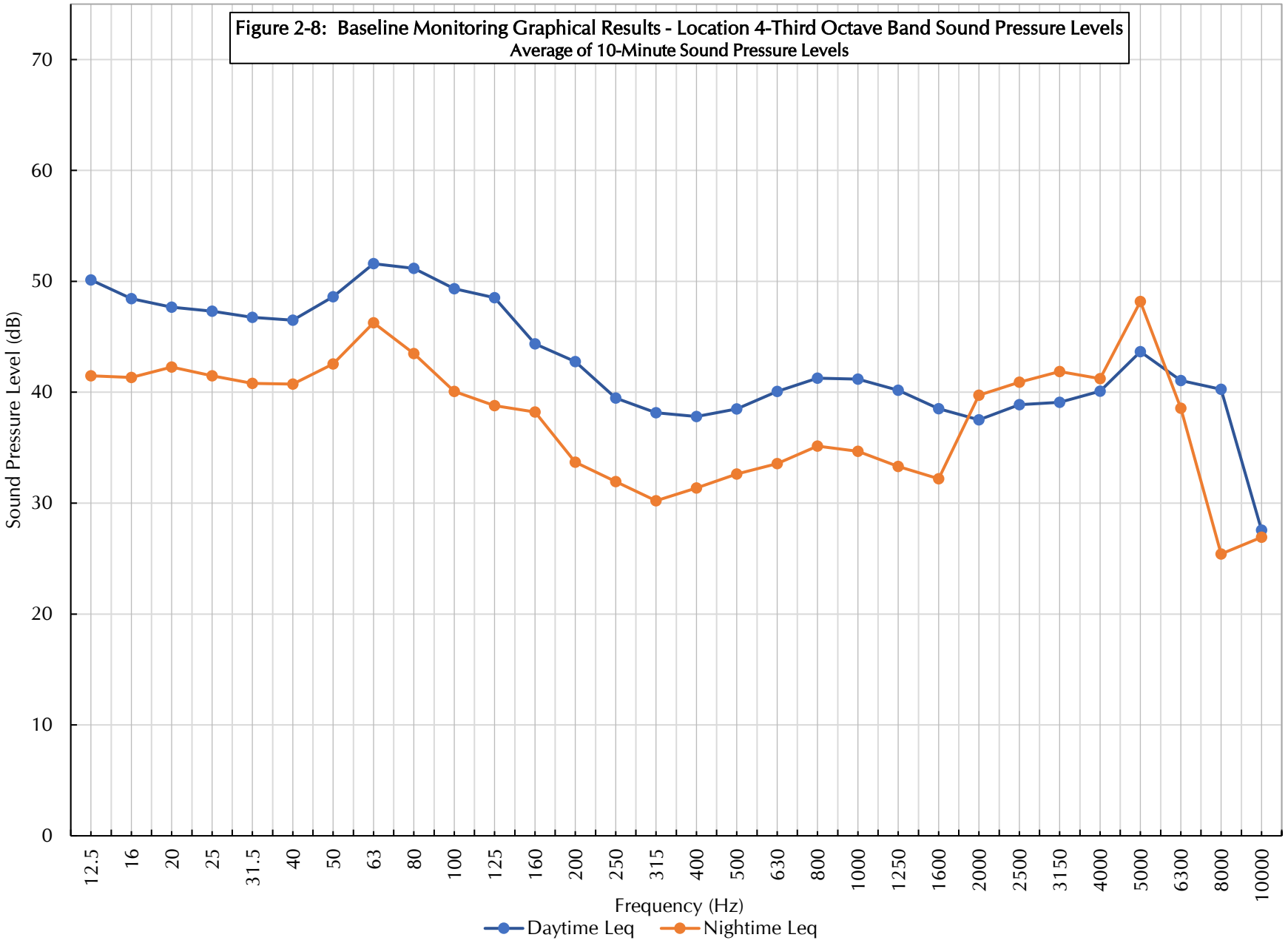

Figure 2-3: Baseline Monitoring Graphical Results - Location 2
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
Start Time [August 26 - September 3, 2020]
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
9/4 0:00
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

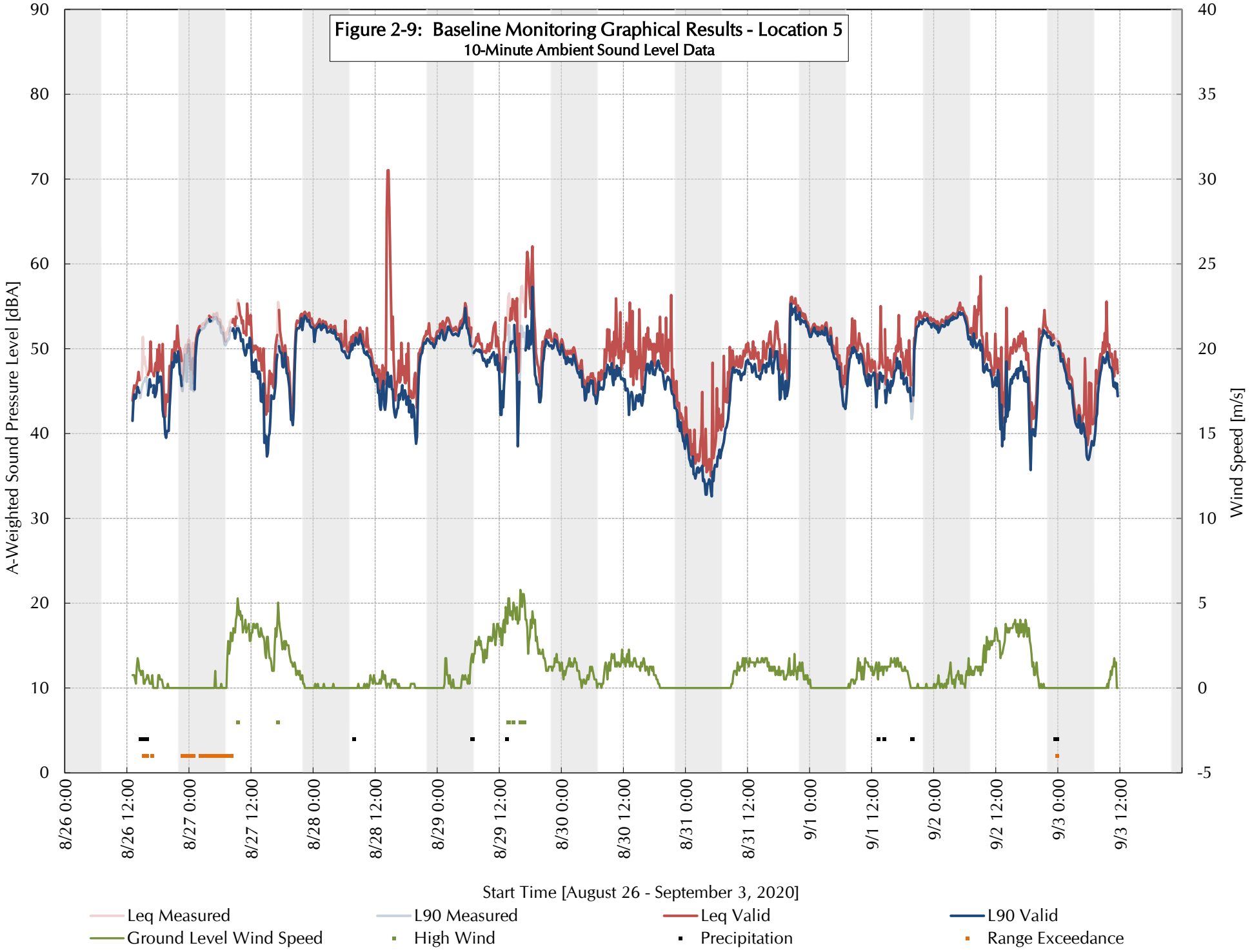

Figure 2-4: Baseline Monitoring Graphical Results - Location 2-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels
Sound Pressure Level (dB)
70
60
50
40
30
20
10
0
12.5
16
20
25
31.5
40
50
63
80
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
Frequency (Hz)
Daytime Leq
Nightime Leq

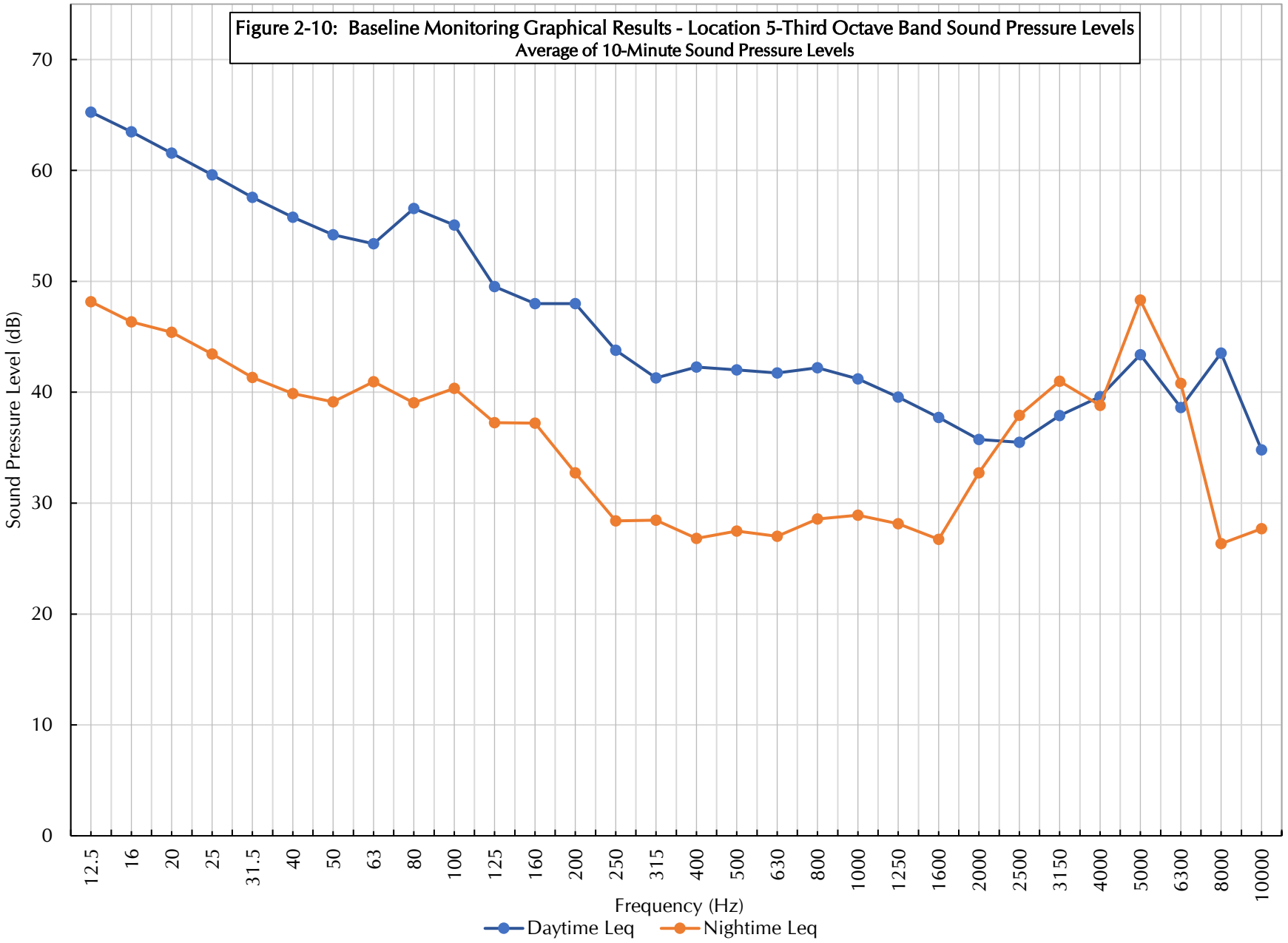

Figure 2-5: Baseline Monitoring Graphical Results - Location 3
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

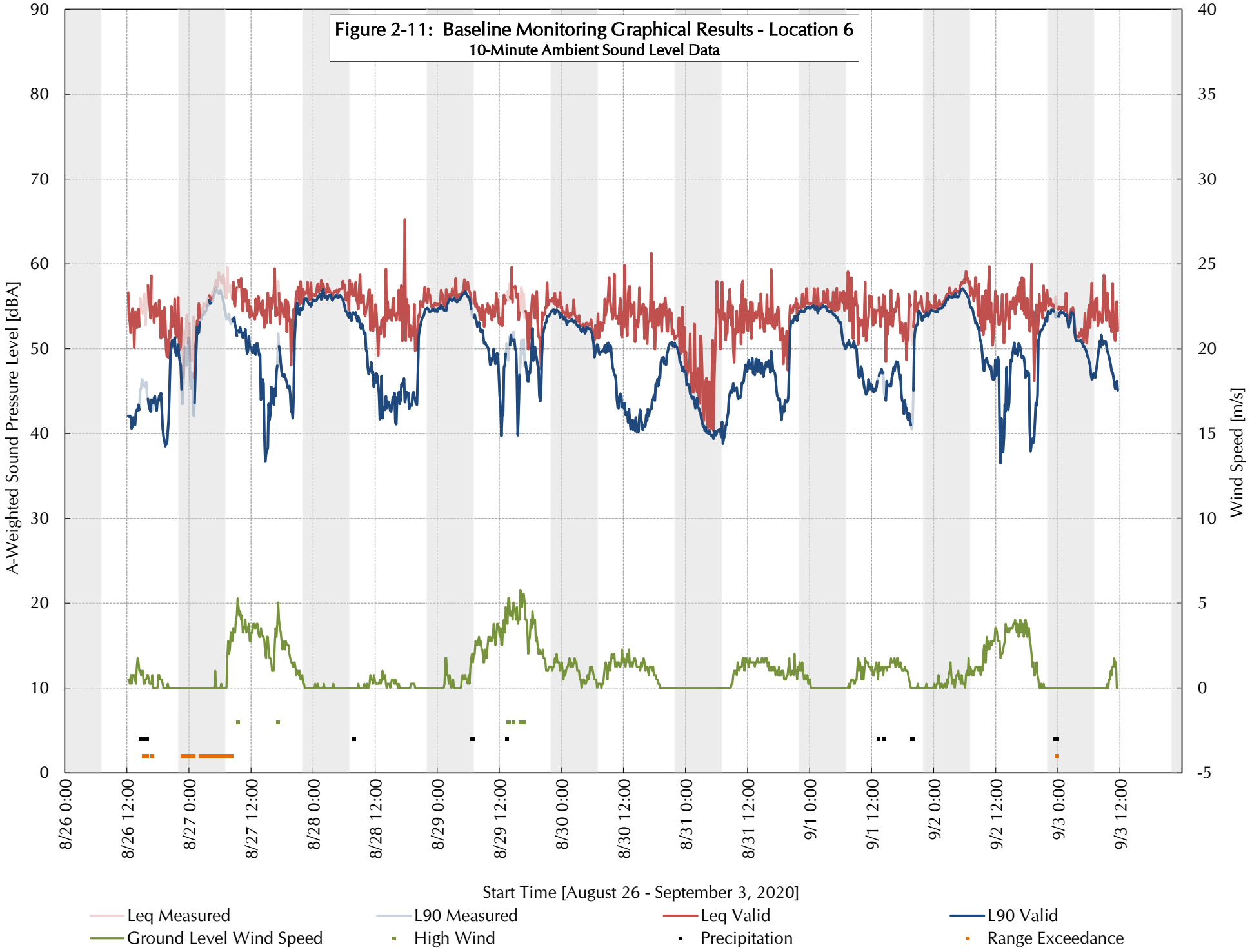

Figure 2-6: Baseline Monitoring Graphical Results - Location 3-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels
Sound Pressure Level (dB)
70
60
50
40
30
20
10
0
12.5
16
20
25
31.5
40
50
63
80
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
Frequency (Hz)
Daytime Leq
Nightime Leq

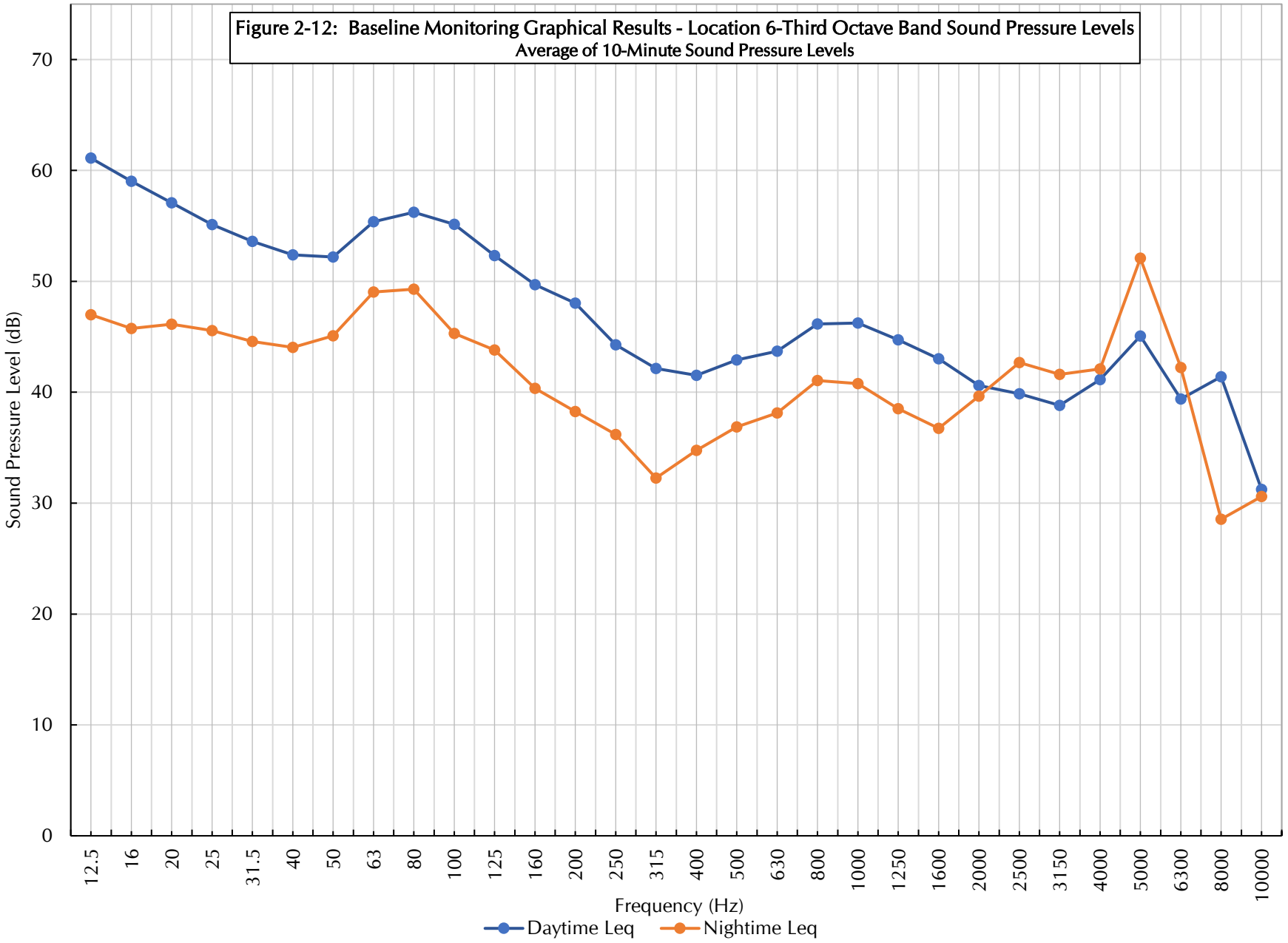

Figure 2-7: Baseline Monitoring Graphical Results - Location 4
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance


Figure 2-8: Baseline Monitoring Graphical Results - Location 4-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels
Sound Pressure Level (dB)
70
60
50
40
30
20
10
0
12.5
16
20
25
31.5
40
50
63
80
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
Frequency (Hz)
Daytime Leq
Nightime Leq


Figure 2-9: Baseline Monitoring Graphical Results - Location 5
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance


Figure 2-10: Baseline Monitoring Graphical Results - Location 5-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels
Sound Pressure Level (dB)
0
10
20
30
40
50
60
70
12.5
16
20
25
31.5
40
50
63
80
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
Frequency (Hz)
Daytime Leq
Nightime Leq


Figure 2-11: Baseline Monitoring Graphical Results - Location 6
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance


Figure 2-12: Baseline Monitoring Graphical Results - Location 6-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels
Sound Pressure Level (dB)
70
60
50
40
30
20
10
0
12.5
16
20
25
31.5
40
50
63
80
100
125
160
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
Frequency (Hz)
Daytime Leq
Nightime Leq

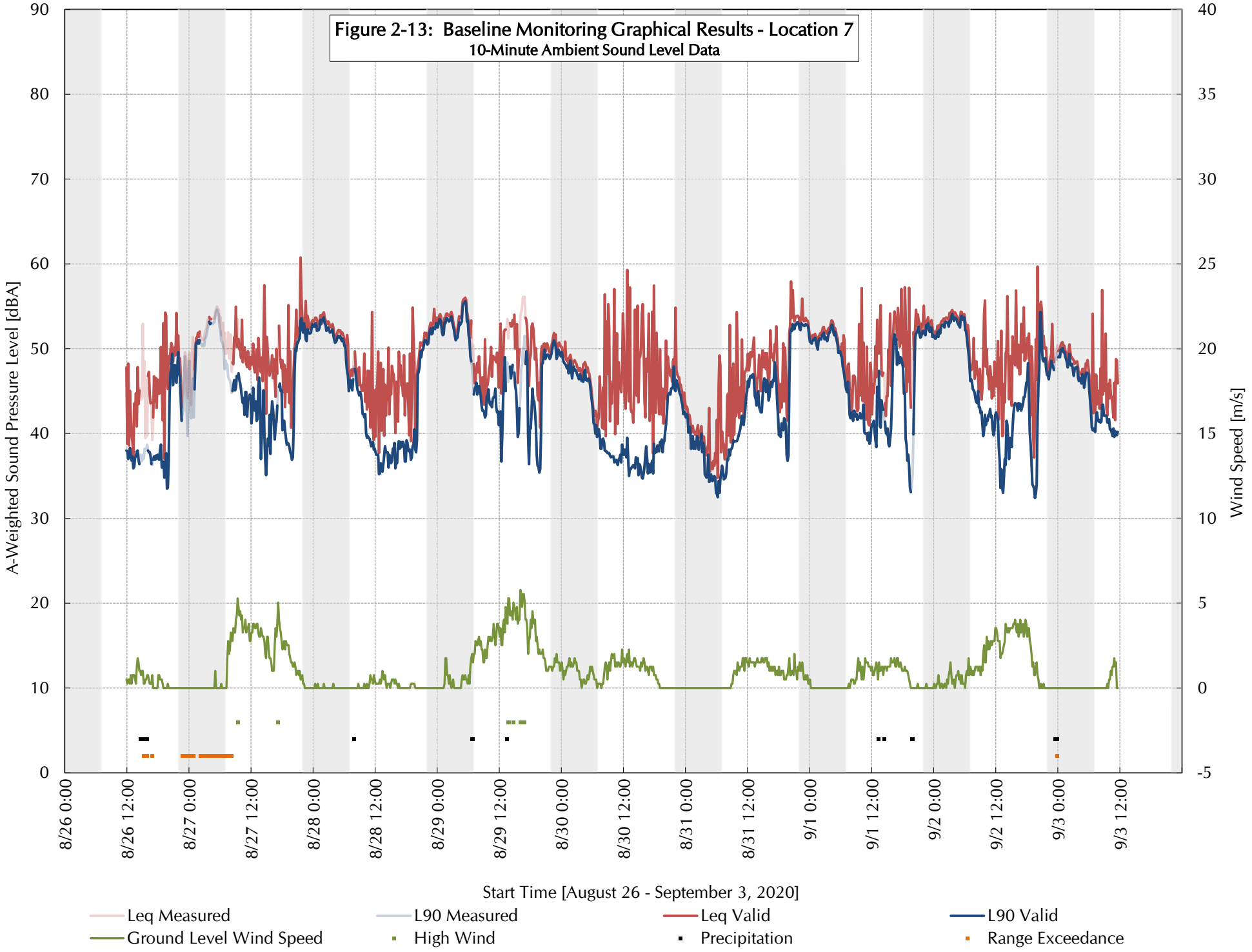
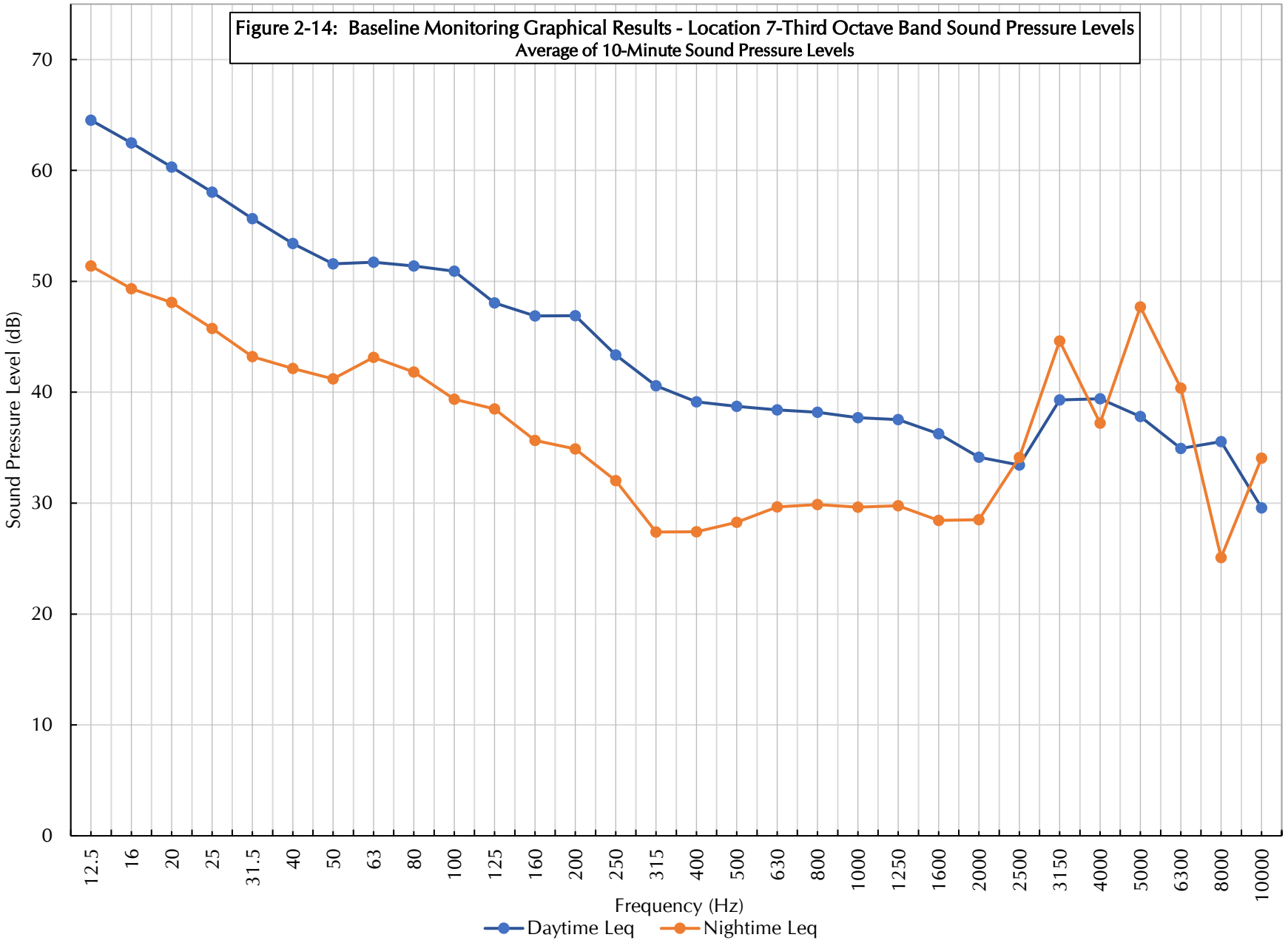

Figure 2-13: Baseline Monitoring Graphical Results - Location 7
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-14: Baseline Monitoring Graphical Results - Location 7-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



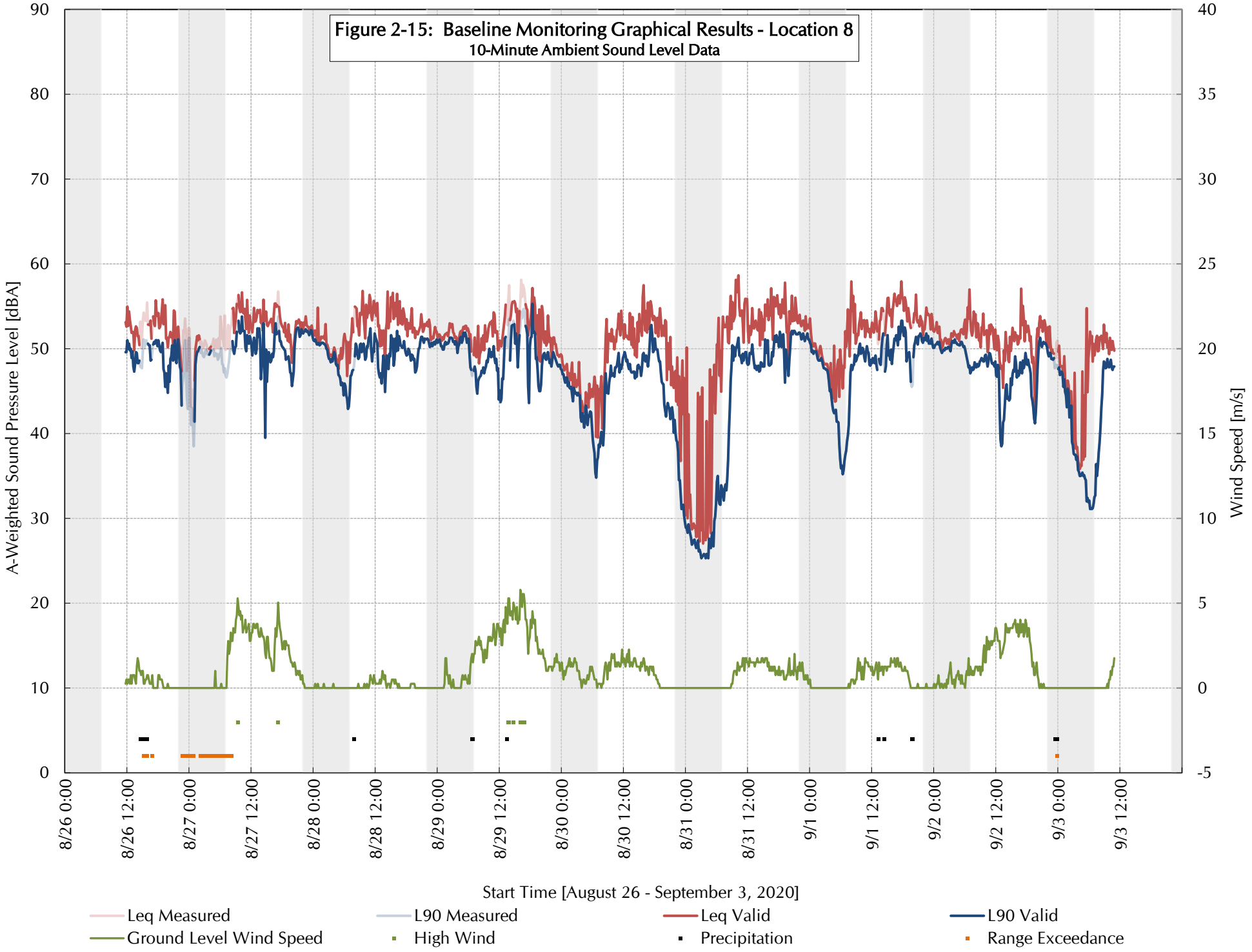
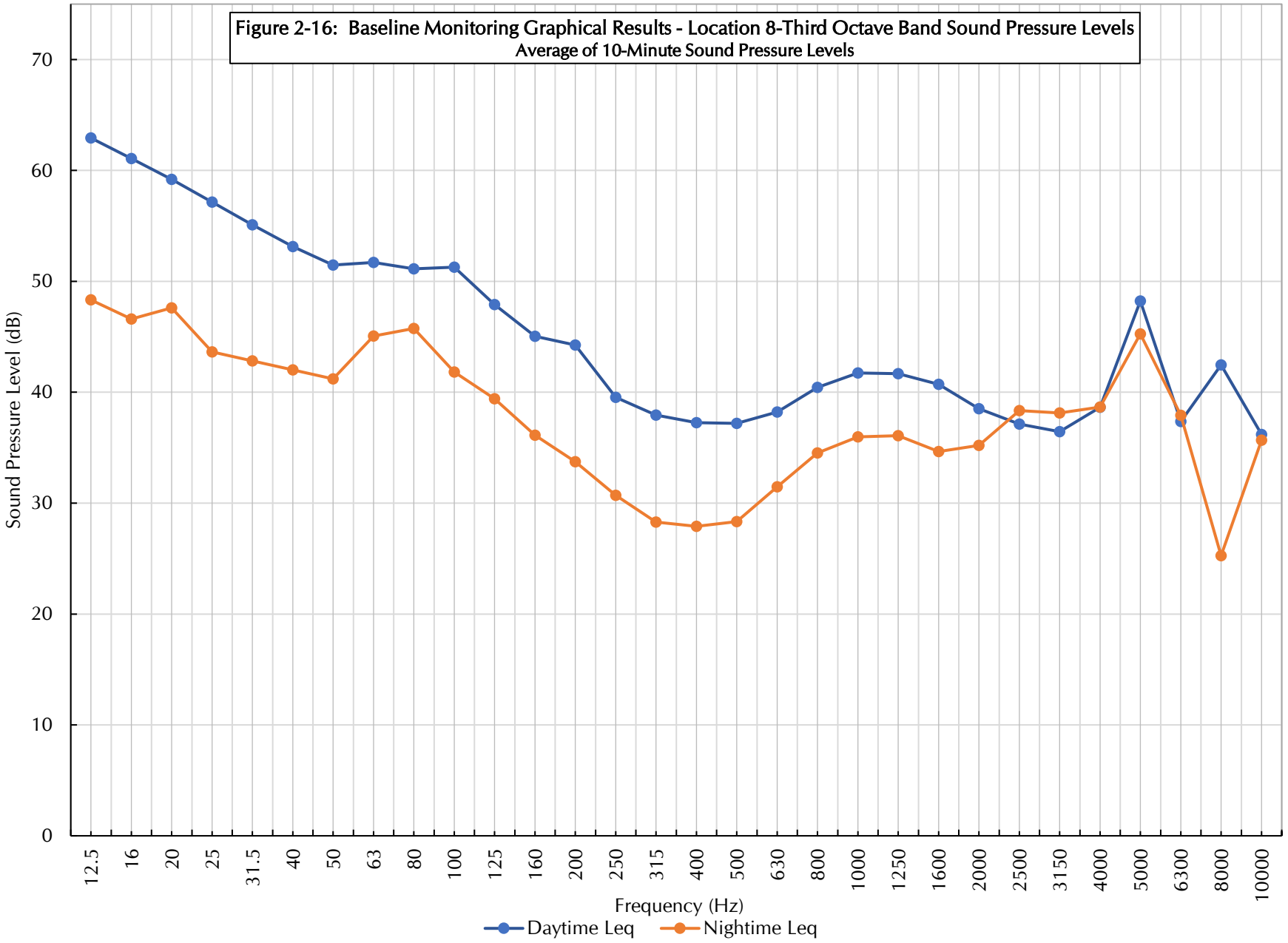

Figure 2-15: Baseline Monitoring Graphical Results - Location 8
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-16: Baseline Monitoring Graphical Results - Location 8-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



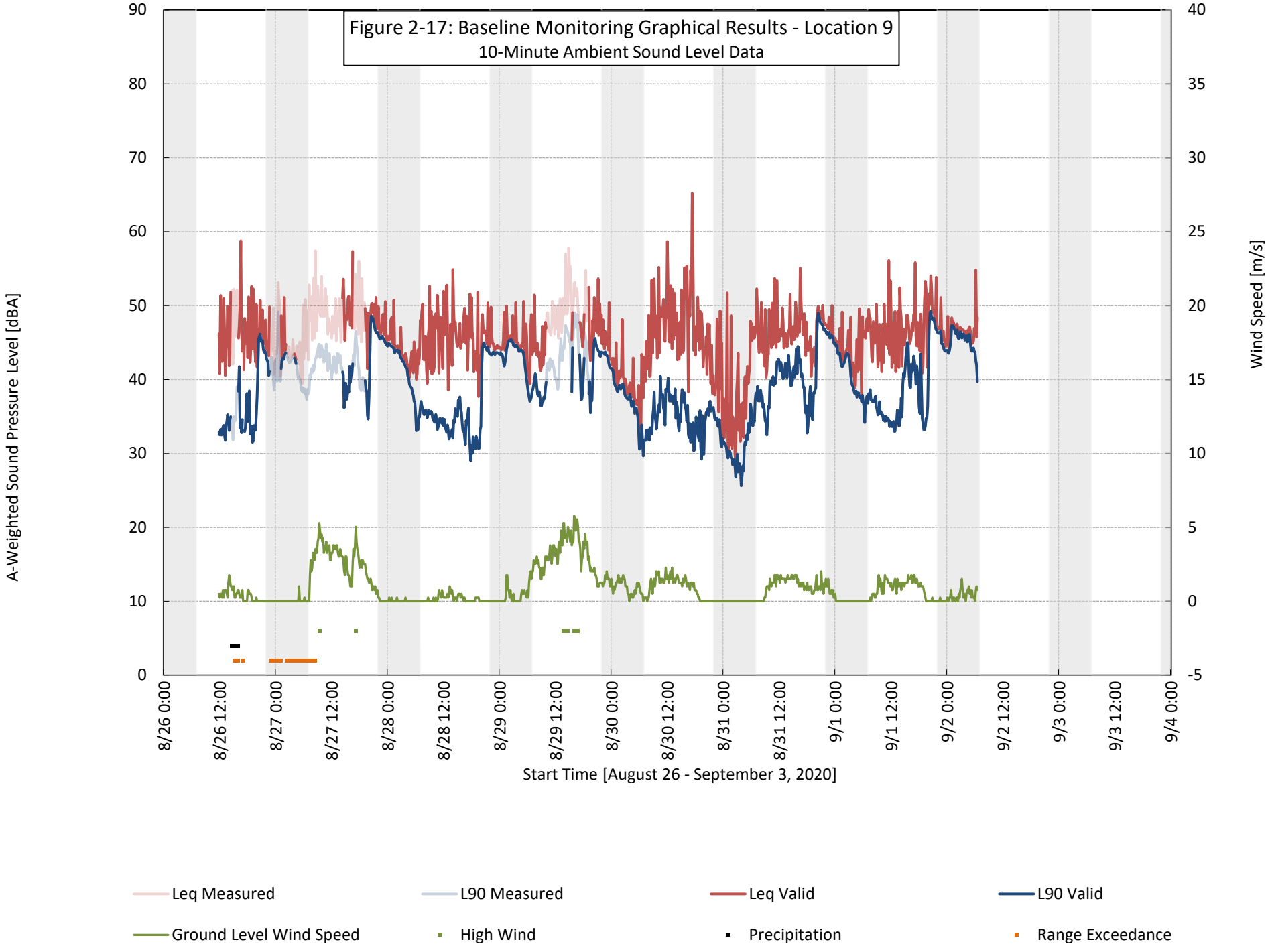
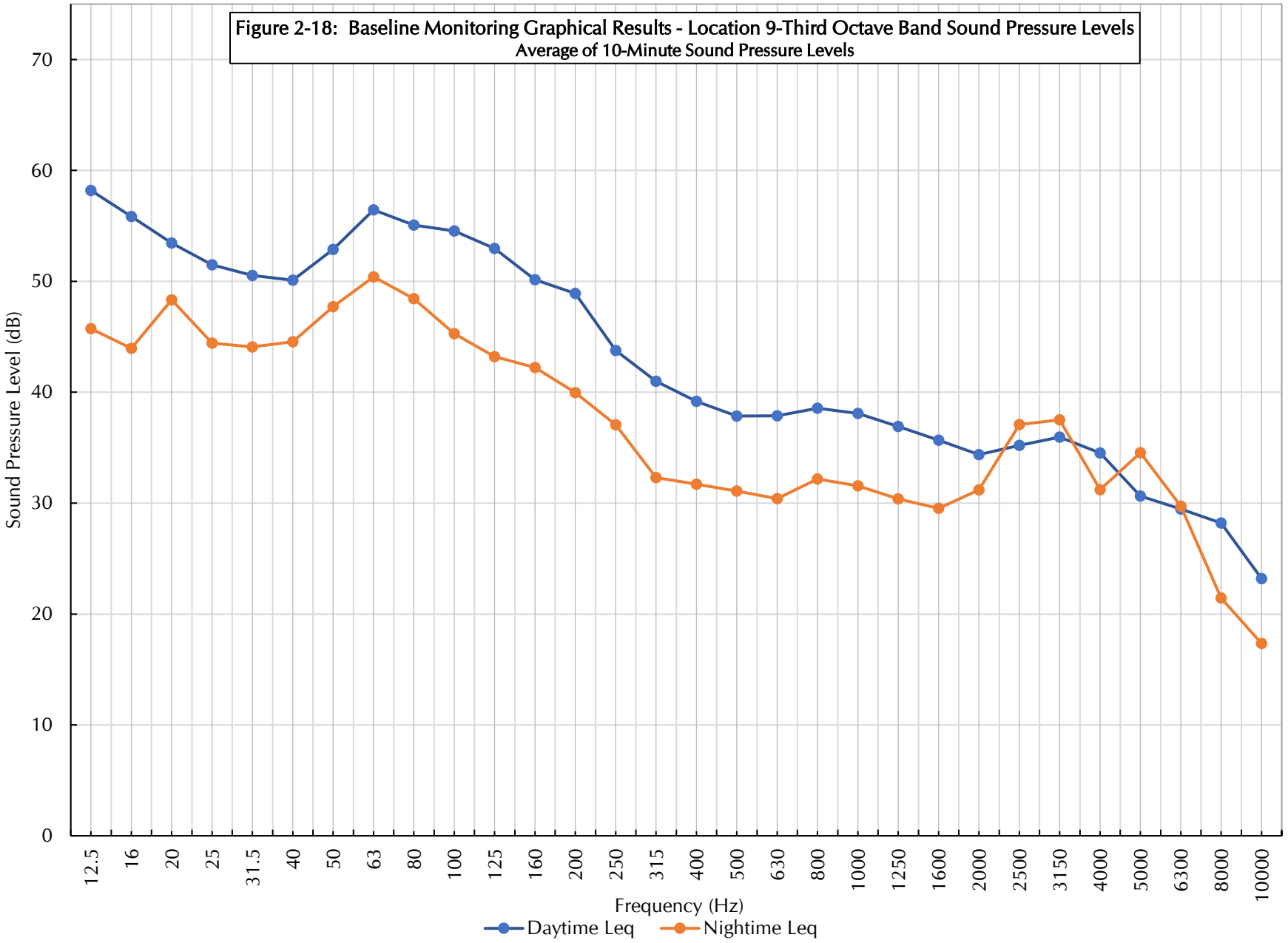

Figure 2-17: Baseline Monitoring Graphical Results - Location 9
10-Minute Ambient Sound Level Data
A-Weighted Sound Pressure Level [dBA]
Wind Speed [m/s]
90
80
70
60
50
40
30
20
10
0
40
35
30
25
20
15
10
5
0
-5
8/26 0:00
8/26 12:00
8/27 0:00
8/27 12:00
8/28 0:00
8/28 12:00
8/29 0:00
8/29 12:00
8/30 0:00
8/30 12:00
8/31 0:00
8/31 12:00
9/1 0:00
9/1 12:00
9/2 0:00
9/2 12:00
9/3 0:00
9/3 12:00
9/4 0:00
Start Time [August 26 - September 3, 2020]
Leq Measured
L90 Measured
Leq Valid
L90 Valid
Ground Level Wind Speed
High Wind
Precipitation
Range Exceedance

Figure 2-18: Baseline Monitoring Graphical Results - Location 9-Third Octave Band Sound Pressure Levels
Average of 10-Minute Sound Pressure Levels



# 3.0 SOUND LEVEL MONITORING SUMMARY

A baseline monitoring program was performed for the proposed Cider Solar Project to characterize the existing sound level environment in the Project area. The measured sound levels are summarized below as tabular data by location. Respective ANS-weighted broadband sound levels calculated for the summary period of interest are provided along with the "as-measured" broadband levels within each table. Only valid[7] 10-minute measurement periods are included in the summary tables.

## 3.1 Existing Ambient – L90

Measured ambient $L_{90}$ sound levels are shown below in Table 3-1. Values are separated by daytime and nighttime periods as well as for the entire program combined. These values represent the $L_{90}$ of the measured $L_{90}$ values.

**Table 3-1 Existing Ambient $L_{90}$ (dBA) Sound Pressure Level Summary**

| Location | Overall (dBA) | | Daytime (dBA) | | Nighttime (dBA) | |
|---|---|---|---|---|---|---|
| | Measured | ANS | Measured | ANS | Measured | ANS |
| Location 1 | 48 | 33 | 47 | 36 | 48 | 30 |
| Location 2 | 40 | 28 | 38 | 31 | 41 | 24 |
| Location 3 | 38 | 28 | 37 | 32 | 39 | 24 |
| Location 4 | 48 | 30 | 47 | 34 | 48 | 26 |
| Location 5 | 48 | 26 | 47 | 31 | 48 | 21 |
| Location 6 | 50 | 27 | 47 | 31 | 53 | 22 |
| Location 7 | 46 | 26 | 42 | 29 | 49 | 23 |
| Location 8 | 47 | 29 | 48 | 32 | 45 | 25 |
| Location 9 | 39 | 30 | 38 | 33 | 40 | 27 |

## 3.2 Existing Ambient - Leq

Measured average ambient $L_{eq}$ levels are presented in Table 3-2. Values are separated by daytime and nighttime periods as well as for the entire program combined.

[7] Refer to Chapter 2 for details concerning valid periods.

**Table 3-2 Existing Ambient $L_{eq}$ (dBA) Sound Pressure Level Summary**

| Location | Overall (dBA) | | Daytime (dBA) | | Nighttime (dBA) | |
|---|---|---|---|---|---|---|
| | Measured | ANS | Measured | ANS | Measured | ANS |
| Location 1 | 51 | 46 | 53 | 49 | 49 | 38 |
| Location 2 | 48 | 45 | 50 | 48 | 46 | 37 |
| Location 3 | 44 | 40 | 46 | 43 | 42 | 31 |
| Location 4 | 51 | 44 | 51 | 46 | 50 | 37 |
| Location 5 | 50 | 39 | 50 | 42 | 49 | 30 |
| Location 6 | 54 | 48 | 54 | 51 | 54 | 38 |
| Location 7 | 49 | 39 | 48 | 42 | 50 | 30 |
| Location 8 | 51 | 43 | 53 | 46 | 48 | 34 |
| Location 9 | 46 | 42 | 47 | 45 | 44 | 35 |

# Appendix A

## Windscreen Insertion Loss

# Experimental study to determine wind-induced noise and windscreen attenuation effects on microphone response for environmental wind turbine and other applications

George F. Hessler[a], David M. Hessler[b], Peter Brandstätt[c] and Karlheinz Bay[d]

(Received: 23 February 2008; Revised: 30 May 2008; Accepted: 31 May 2008)

**Despite the use of windscreens, the measurement of ambient sound levels or noise emissions in quiet environments can be adversely affected by wind blowing over the microphone. This is especially true when environmental impact assessments are being carried out for proposed wind turbine power projects - where the objective is to determine the level of background masking noise available as a function of wind speed, since any potential noise impact from the project will only occur under moderately windy conditions. Under calm conditions the project will produce no noise at all. A number of windscreen products are commercially available for short and long-term sound level monitoring in adverse weather conditions. Generally, these windscreens vary by physical size and the method of preventing water from reaching the microphone. High frequency attenuation effects are usually available from the product suppliers but, in general, low frequency turbulence effects are not available. Consequently, a controlled laboratory test program was carried out in a state-of-the-art wind tunnel at the Fraunhofer Institut für Bauphysik in Stuttgart, Germany to quantify the level of low frequency interference (down to 6.3 Hz) associated with a number of different foam windscreens and an aerodynamic microphone nose cone. A total of nine configurations were tested with "quiet" airflow only, artificial noise only and noise plus airflow to evaluate both low frequency wind induced noise and high frequency attenuation effects. The test program demonstrated that the largest size foam-based windscreens provided the most protection from flow induced noise due to wind. Flow induced noise by air flow alone was estimated from the study results and compared to community noise measurements at a typical wind turbine site. It was determined that flow induced wind noise does not have a significant or detrimental effect on the measurement of A-weighted sound levels under wind conditions of concern as long as the suggested measurement techniques described herein are followed.**
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Primary subject classification: 71.1.1; Secondary subject classification: 21.6

## 1 INTRODUCTION

It is a challenge to measure ambient or background levels in quiet, rural environments. Such areas are usually devoid of any major noise sources, such as highways, industrial facilities or airports. Except for occasional, usually man-made, noise events the sound level in rural environments is normally dominated by the rustling of tree leaves or branches in the wind or by the high frequency sounds of insects during the warmer months of the year. For wind turbine power project assessments, ambient sound levels when the wind is blowing in the 3 to 10 m/s range (measured at 10 m above the surface) is very relevant because that is when typical wind turbines first begin to generate significant noise. At higher wind speeds turbine sound levels remain largely constant while the background sound continues to increase. Consequently, background sound

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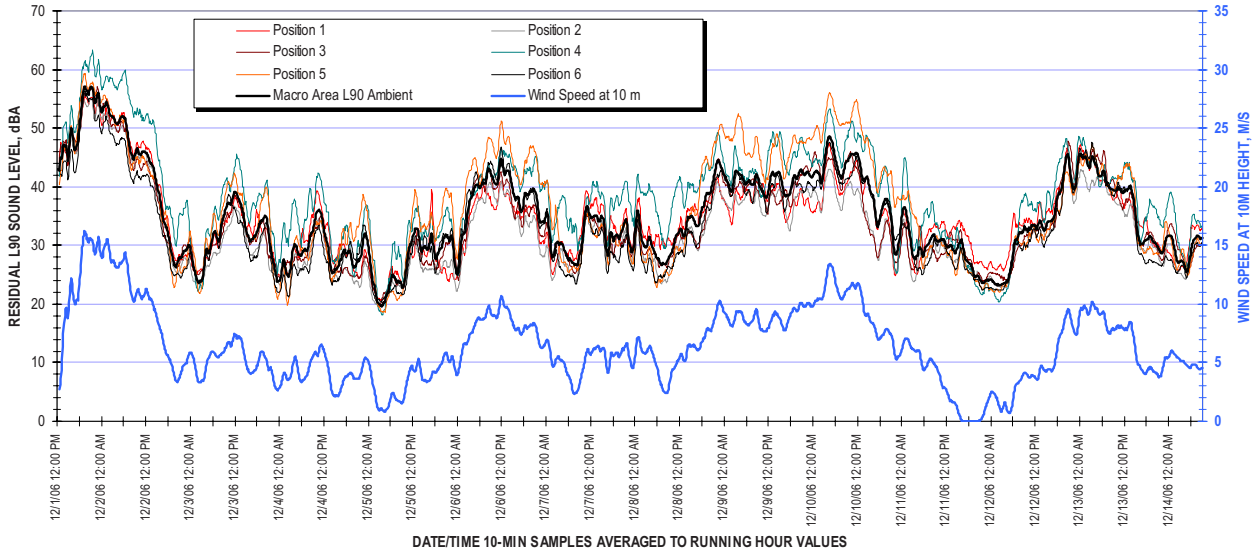



*Fig. 1—Measured residual LA90 ambient sound levels at six widely spaced locations in a quiet rural area compared to wind speed over a 13 day period.*

levels that occur during moderate winds are of the most interest. Reference 1 offers techniques for measuring wind turbine sources using a ground plane microphone setup to eliminate wind induced noise, but background baseline measurements are made above grade with wind.

In general, experience with (insect-free) wintertime surveys at rural sites indicates that there is normally an




*Fig. 2—Photographs of nine microphone test configurations.*

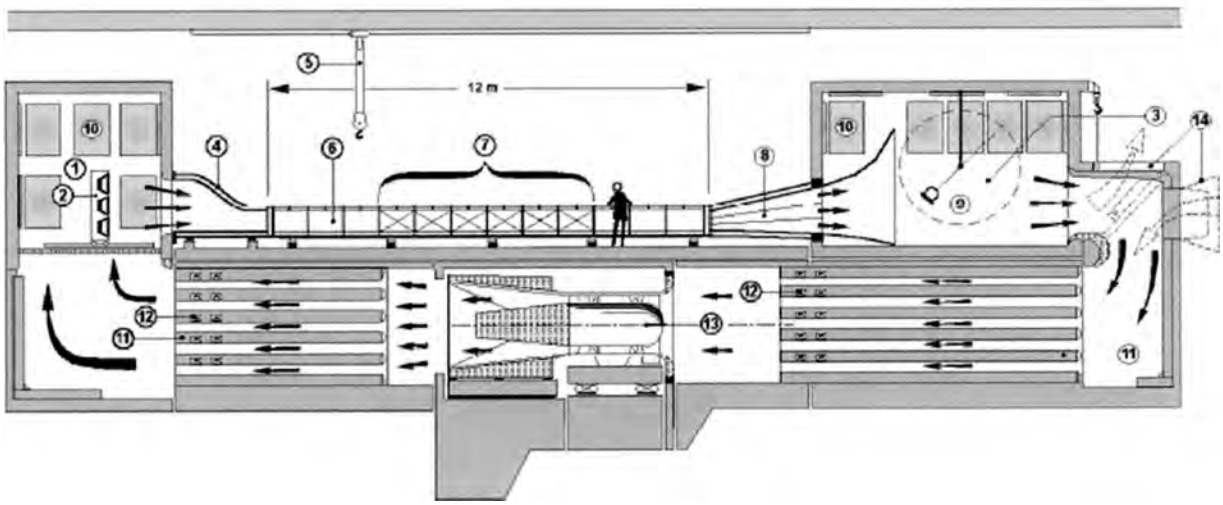



*Fig. 3—Cross sectional elevation view of silencer test facility.*

excellent correlation between wind speeds and the ambient residual (L90) sound levels as shown on Fig. 1. Of course, such a high degree of correlation could result if the microphone response was dominated by wind-induced turbulence effects around the microphone as opposed to the true ambient sound level signal. Hence, the purpose of this study is to quantitatively address this uncertainty and determine, for a number of common windscreens types, if/when any substantial contamination occurs over a range of wind speeds.

Nine microphone configurations, as illustrated in Fig. 2, were tested under controlled conditions in a wind tunnel duct using quiet airflow only, artificial noise only (at three volumes) and airflow plus artificial noise. Ninety degree incidence is used to duplicate ambient sound measurement survey techniques, but the nose cone (B&K model UA 0386) was aimed into the flow stream. Windscreens for tests 3, 4, 8 and 9 are products available for long-term outdoor monitoring. The foam ball ACO Pacific models (tests 8 and 9) are specifically treated to shed rain water while the other foam balls are not intended for outdoor rain exposure. Measurements were carried out at duct velocities of 2.5, 5, 10, 20 and 30 m/s (8, 16, 33, 66 and 98 ft/s, or 6, 11, 22, 45 and 67 mph). The test results are also useful for determining flow turbulence effects when measuring industrial noise sources in the presence of airflow, as well as for outdoor environmental measurements.

The test program was carried out at the Fraunhofer Institute of Building Physics located in Stuttgart, Germany at their aero-acoustic wind tunnel illustrated on Fig. 3. Note the large silencers on the inlet and exhaust path of the airflow fan and the structural isolation of the test duct. The airflow delivered to the duct test section is essentially free of fan noise or is "quiet" air. The airflow in the duct cross section has an even distribution without swirl or turbulences as it is supplied through a stilling chamber and an air inlet profile. The duct cross section of 1 m by 0.5 m was held constant over the complete length for all measurements. In this way re-generated noise was kept at a minimum. Measurements were made with a Norsonic 840 Analyzer, Norsonic Model 1201 preamp and 1/2 inch (13 mm) diameter Model 1225 microphone.

## 2 LOW FREQUENCY TURBULENCE EFFECTS - FLOW MEASUREMENTS

The raw measured data for all configurations at the five airflow speeds are plotted on Fig. 4. It is certainly not news, but the data clearly demonstrate that even the most modest foam windscreen should always be used when outdoors, since it dramatically improves the low and mid frequency microphone response. Because the extreme low frequencies are significantly affected by flow induced noise even at fairly low wind speeds, these plots also show that whenever low level very low frequency or C-weighted sound levels must be measured outdoors such measurements should only be carried out under completely calm conditions.

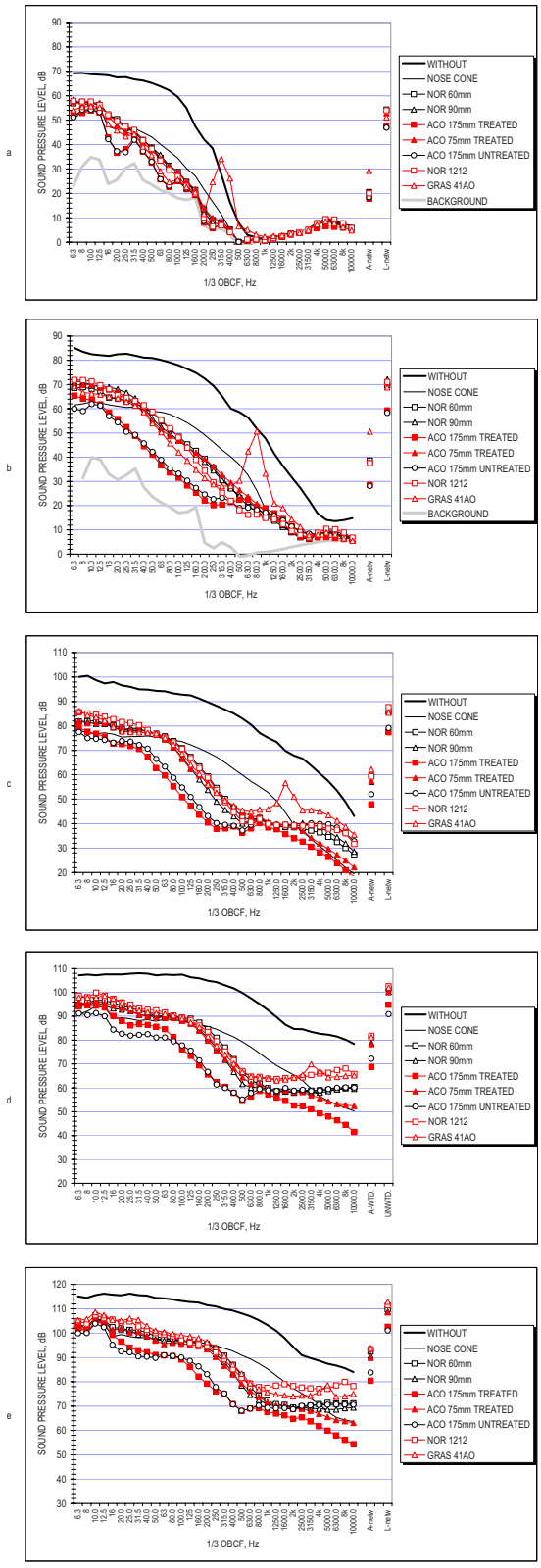



*Fig. 4—Measured microphone response at five velocities (2.5, 5. 10, 20 and* 30 m/s, *graph a through e).*

The second trend immediately noticeable is that the two larger (175 mm diameter) windscreens are significantly better at reducing flow induced noise at low and

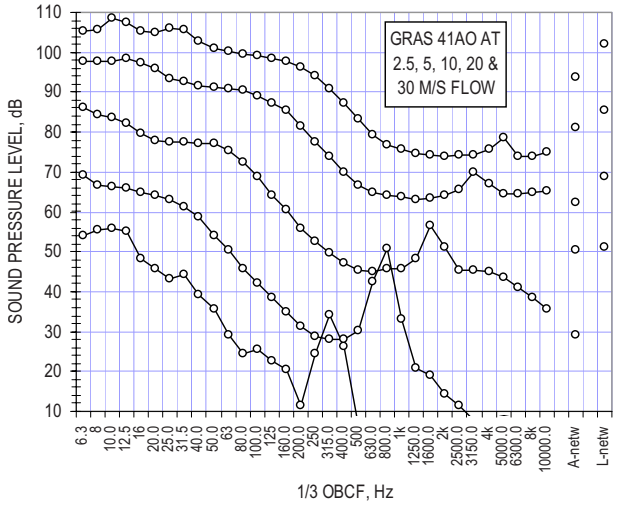



*Fig. 5—Graph showing flow generated tonal noise associated with the gap between foam and wire.*

mid frequencies. Flow-induced noise levels are on the order of 10 dB lower for this type of windscreen than they are for all others. Prior studies have shown this relationship and an excellent analytical study and summary of microphone response to turbulence is presented by van den Berg in Ref. 2. This testing quantifies the improvement and low frequency performance for readily available current wind protection products.

All of the plots, but particularly the lower wind speed cases, show a tonal aberration for the GRAS model 41AO windscreen. A frequency shift with wind velocity can clearly be seen in Fig. 5, which shows only the results for this model windscreen at all five wind speeds. This behavior was initially attributed to vortex shedding from the bird spike wires (each 1.5 mm in diameter) where the frequency may be calculated by the well known equation:

$$f = Sv/d \qquad (1)$$

where,
S=the Strouhal number of 0.2
v=velocity, m/s
d=diameter, m
This calculation indicated that the 315, 630, 1250, 2500 and 5000 Hz 1/3 octave bands would be excited by vortex shedding, but the actual measurements showed that the affected bands were 315, 800, 1600, 3150 and 5000 Hz. Further diagnostic testing demonstrated that the peaks are caused by the gap between the

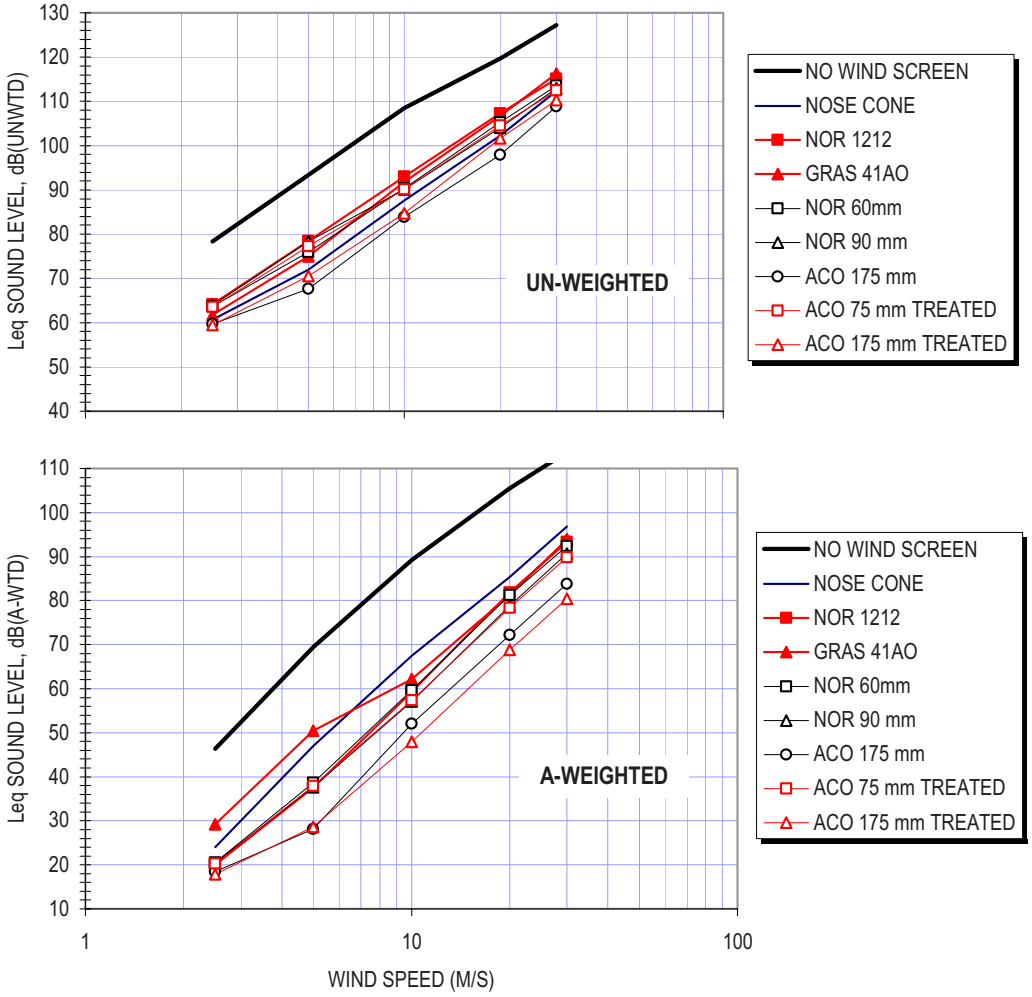



*Fig. 6—Plot of overall flow noise response for windscreen models. Upper: Un-weighted level, Lower: A-weighted level.*

wire bird spike base and the top of the windscreen. Apparently small mini-jets are created by this gap and it was found that this noise could be reduced by a closer fit between the foam screen and the wire. The gap should be eliminated when employing this model for monitoring.

Figure 6 plots the overall measured values of flow-generated noise as a function of air flow velocity. When plotted on a logarithmic scale, the data show a linear increase with velocity for all models. The overall, un-weighted sound level slope is a $v^5$ relationship, or approximately a 15 dB increase for each doubling of velocity, whereas the A-weighted results are a $v^6$ relationship, or approximately 18 dBA increase per doubling. Table 1 tabulates the overall measured values at each velocity for each model windscreen. These data can be used to derive a logarithmic expression for the self-generated noise level as a function of wind speed for any of the tested windscreens. For example, data for the treated ACO 175 mm windscreen leads to the following approximate equation for estimating the A-weighted flow induced noise level for the wind speed at the microphone location. Wind speed at 10 m elevation is the standardized elevation for rating wind turbines as given in Ref. 1 but this equation applies at the microphone location.

$$L_{fin} = 27.4 \ln(v) - 10.7, \text{ dBA} \qquad (2)$$

where,

$L_{fin}$=the A-weighted flow-induced-noise level due only to wind

v=the wind speed at the microphone, m/s

*Table 1—Measured overall levels for microphone response with and without windscreens at five velocity settings. Lowest response results are for the* 175 mm *size windscreens.*

| | | FLOW SPEED M/S (MPH) | | | | |
|---|---|---|---|---|---|---|
| A-WTD | | 2.5 | 5 | 10 | 20 | 30 |
| T1 | NO WIND SCREEN | 46 | 69 | 89 | 106 | 114 |
| T2 | NOSE CONE | 24 | 47 | 68 | 85 | 97 |
| T3 | NOR 1212 | 20 | 38 | 59 | 82 | 93 |
| T4 | GRAS 41AO | 29 | 51 | 62 | 81 | 94 |
| T5 | NOR 60 mm | 21 | 39 | 60 | 81 | 92 |
| T6 | NOR 90 mm | 20 | 38 | 57 | 79 | 91 |
| T7 | ACO 175 mm | 18 | 28 | 52 | 72 | 84 |
| T8 | ACO 75 mm TREATED | 20 | 38 | 57 | 78 | 90 |
| T9 | ACO 175 mm TREATED | 18 | 29 | 48 | 69 | 80 |
| UNWTD | | FLOW SPEED M/S (MPH) | | | | |
| | | 2.5 | 5 | 10 | 20 | 30 |
| T1 | NO WIND SCREEN | 78 | 93 | 109 | 120 | 127 |
| T2 | NOSE CONE | 61 | 72 | 88 | 102 | 112 |
| T3 | NOR 1212 | 64 | 79 | 93 | 107 | 115 |
| T4 | GRAS 41AO | 62 | 75 | 92 | 107 | 116 |
| T5 | NOR 60 mm | 64 | 76 | 90 | 105 | 114 |
| T6 | NOR 90 mm | 64 | 78 | 90 | 104 | 113 |
| T7 | ACO 175 mm | 60 | 68 | 84 | 98 | 109 |
| T8 | ACO 75 mm TREATED | 64 | 77 | 90 | 105 | 113 |
| T9 | ACO 175 mm TREATED | 60 | 71 | 85 | 102 | 110 |

## 3 ATTENUATION EFFECTS – ARTIFICIAL NOISE MEASUREMENTS

The measured sound levels in the duct at three volumes of artificial loud speaker noise (without any airflow) are plotted in Fig. 7. The fairly significant response variances at frequencies below 50 Hz are attributable to longitudinal in-duct resonances. Variable levels of external low frequency background noise outside the test duct at the facility may have also contributed to the scatter and loudspeaker output is poor at frequencies below 20 Hz. An improved signal to background noise ratio is suspected as the reason for better data grouping at the highest volume. There is no reason to believe that windscreens have any attenuation or amplification effects at these low frequencies. To verify this, testing was repeated in the facilities anechoic free-field environment. Figure 8 plots the raw data for this test and it is readily apparent that the low frequency variations are absent for a free progressive wave in an anechoic room as opposed to the wave front in a duct containing lateral reflections.

At the high end of the frequency spectrum the plots consistently show the same, model-dependent trends such as the significant attenuation of the ACO 175 mm treated windscreen at all frequencies above about 1250 Hz. Figure 9 shows the averaged attenuation for the three volumes in 1/3 octave bands for all windscreen models tested. Negative attenuation, or amplification of the signal, is significant for the nose cone and Nor 1212 outdoor windscreen. Table 2 tabulates the measured attenuations.

In general, the relatively large high frequency attenuation associated with the ACO 175 mm treated windscreen means that any un-corrected measurements made with it would be somewhat lower on an overall A-weighted basis than the actual value and therefore conservative in background survey applications. The overall noise reduction of this windscreen would depend on the frequency spectrum shape of the sound being measured but appears to be in 2 to 5 dBA range (neglecting any possible counteracting increases due to wind-induced effects). This low-pass filter quality could actually be beneficial in cases where unwanted summertime insect noise (generally above 2 kHz) is present. This contamination would be automatically

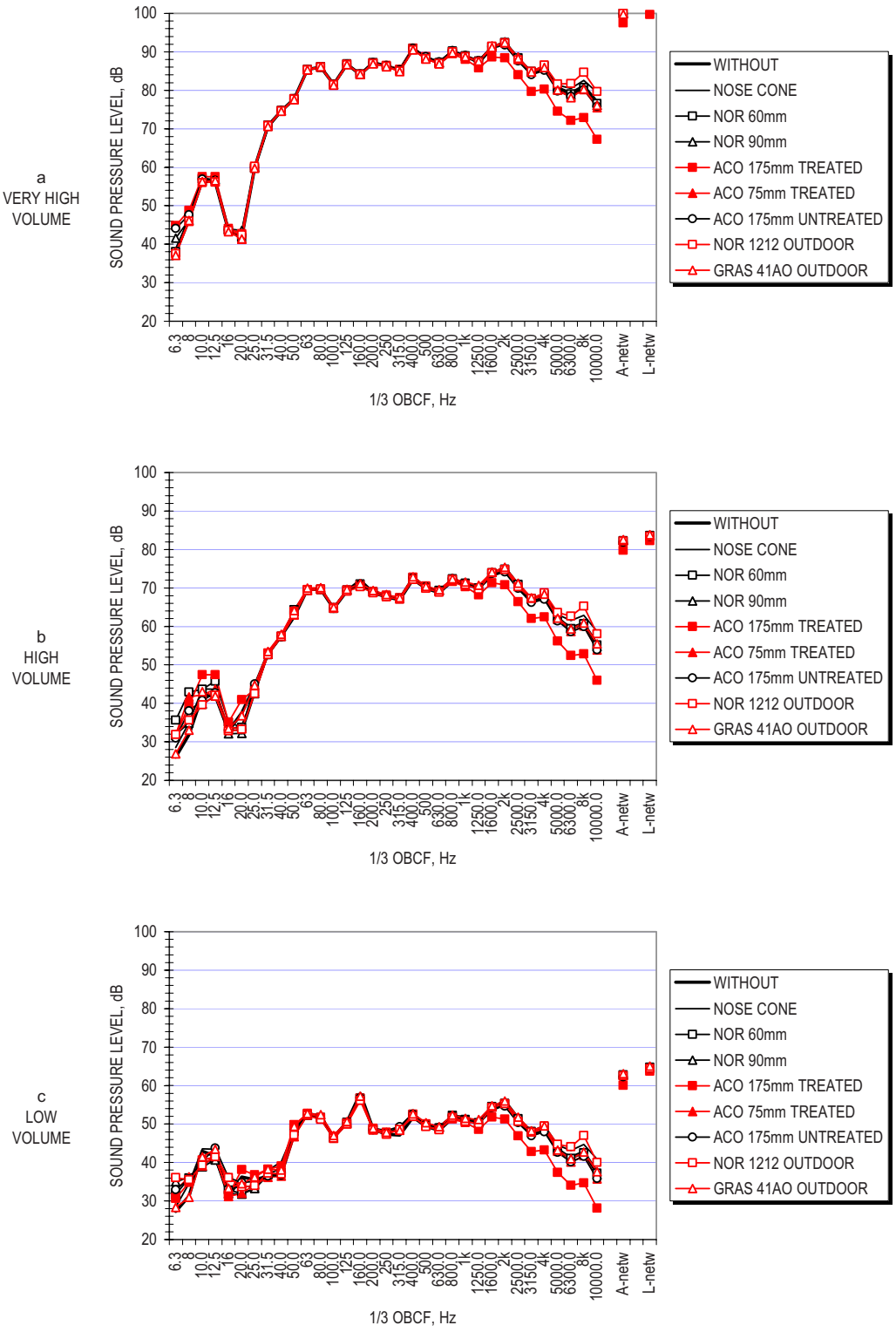



*Fig. 7—Measured response with three volumes of artificial noise in the duct.*

minimized, though not necessarily eliminated, through the use of this windscreen

## 4 FLOW AND NOISE MEASUREMENTS

The combined flow and noise measurements serve to illustrate the accuracy of the measurements and the benefits of using windscreens. Figure 10 plots the flow only, noise only and the combined flow and noise measurements for three cases: no windscreen, minimum diameter and maximum diameter foam windscreens. The point where the flow only and noise only traces cross essentially defines the minimum

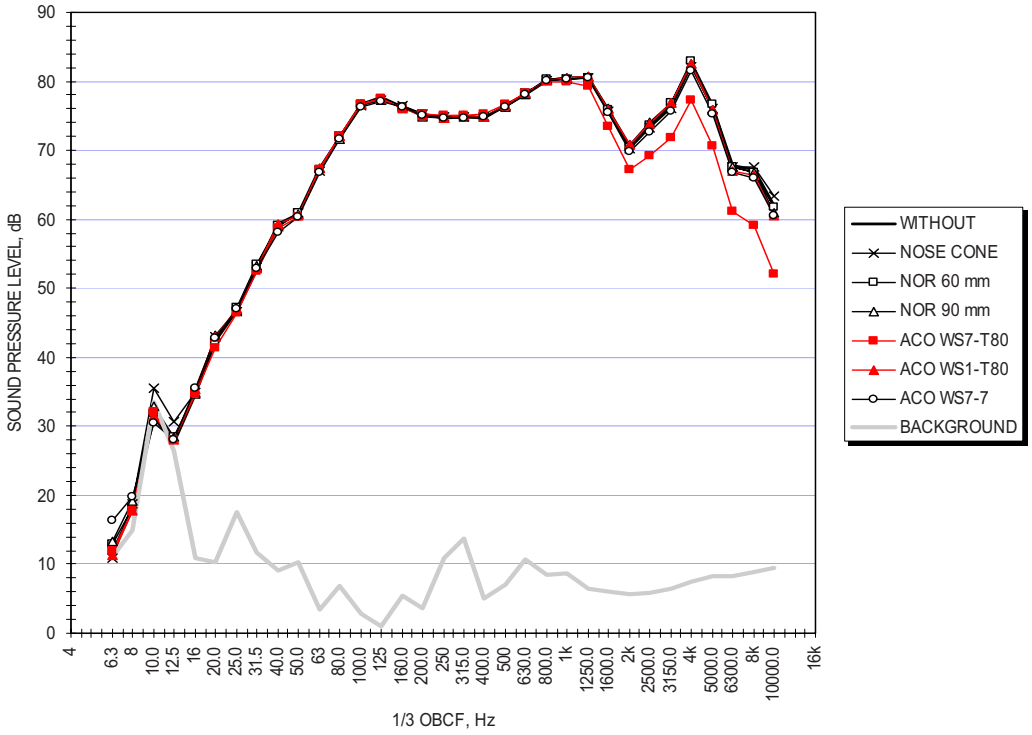



*Fig. 8—Measured sound pressure spectra for five windscreen models in an anechoic chamber.*

frequency at which valid data can be measured during, in this case, a 10 m/s wind. Without a windscreen, almost the entire spectrum (0 to 6300 Hz) is dominated by the 10 m/s flow noise. At the same 10 m/s flow speed; however, accurate measurements can be made in all bands above 125 Hz using only a 60 mm windscreen. The frequency response is improved to above 50 Hz using the largest (175 mm) windscreen.

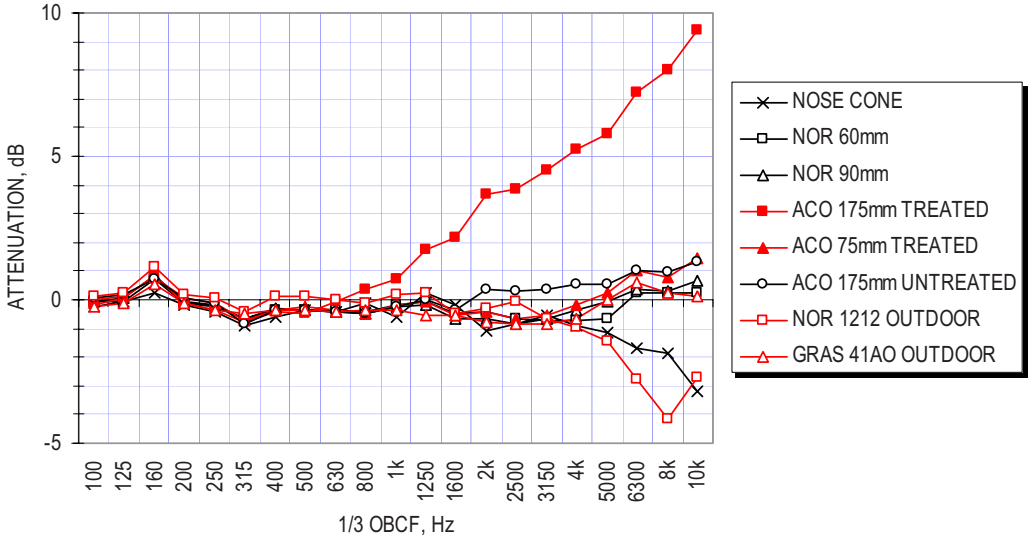



*Fig. 9—Measured microphone response attenuation for windscreen models for 90 degree sound incidence.*

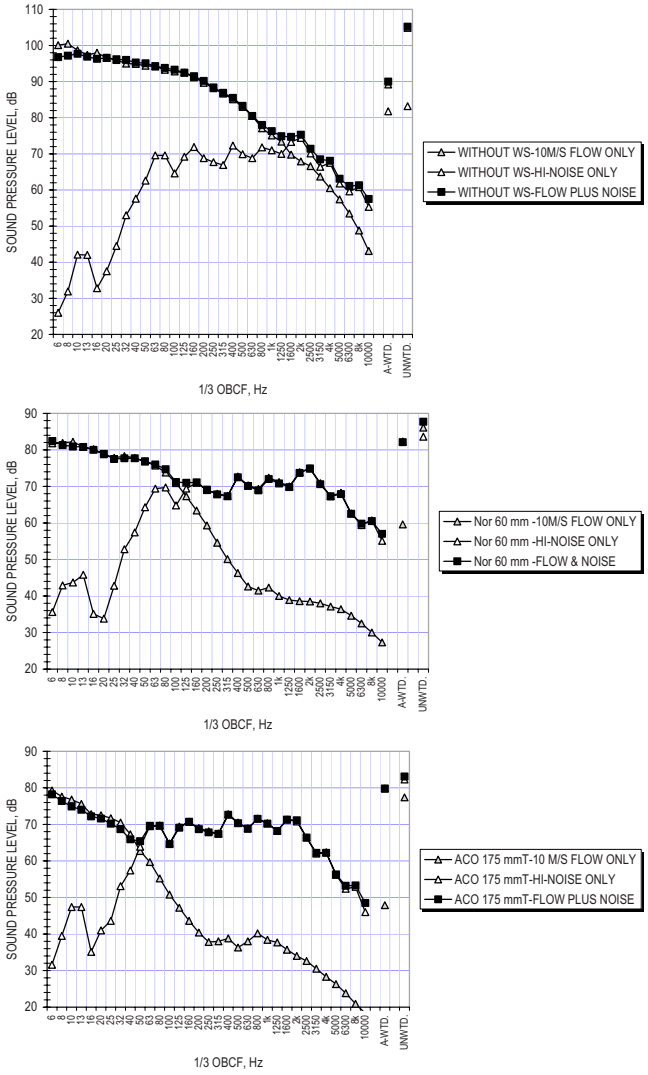



*Fig. 10—Flow only, noise only and flow and noise measurements.*

## 5 CONCLUSIONS AND RECOMMENDATIONS

The data show that reasonably good results when measuring in low to moderate wind conditions are possible even with conventional 60 mm windscreens, but that a larger (175 mm) diameter windscreen offers significantly better performance in the lower frequencies.

In the special case of background sound level surveys for wind turbine projects, where the objective is to determine the environmental sound level/masking level as a function of wind speed, the suggested practice based on this lab study is to use a large 175 mm windscreen and mount the microphone at a maximum elevation of about 1 m above grade. This latter step helps ensure that the microphone is exposed to relatively low wind speeds, since the nominal wind velocity profile, Eqn. (7) in Ref. 1 has a parabolic shape where the velocity decreases rapidly near the ground – theoretically going to zero at the surface. For example, a wind speed of 10 m/s (22.4 mph) measured at a standardized elevation of 10 m would translate to a nominal speed of 5.6 m/s (12.5 mph) at only 1 m above the surface. The wind speed range of most relevance to wind turbine analyses is usually in the 5 to 8 m/s range as measured at 10 m; consequently, a microphone at 1 m would be exposed to nominal flow velocities of 2.8 m/s (6.3 mph) to 4.5 m/s (10.1 mph) where the A-weighted flow induced noise levels would

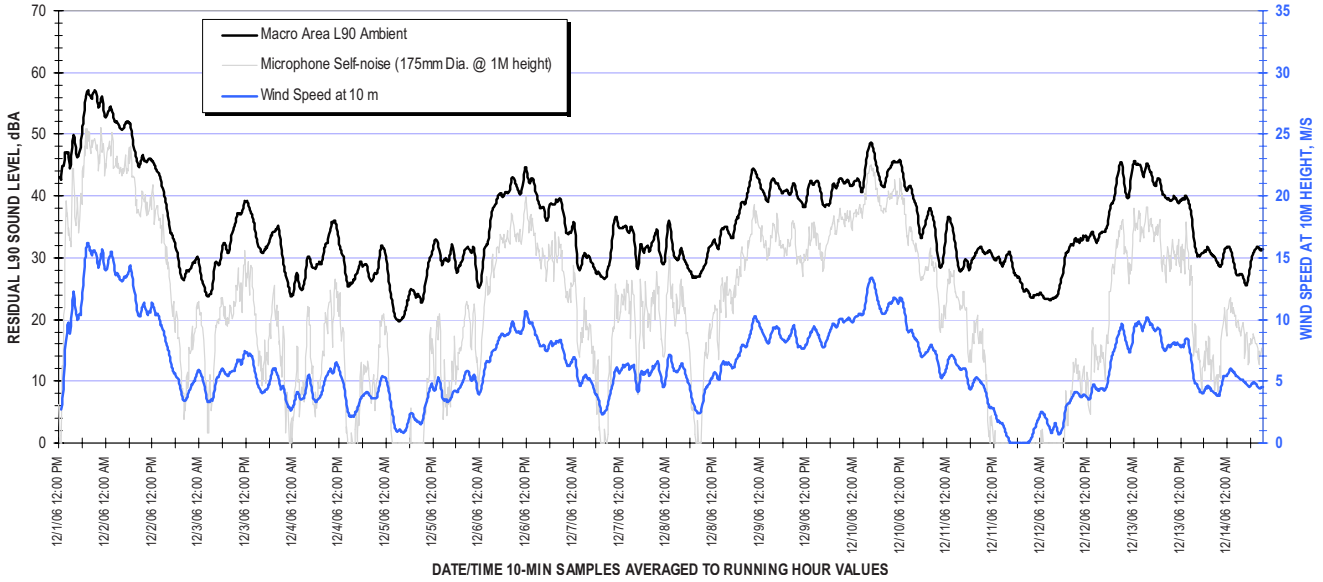



*Fig. 11—Measured community ambient level compared to estimated microphone response to wind.*

*Table 2—Measured attenuation for windscreen models, 90 degree sound incidence.*

| 1/3 OBCF, Hz | NOR 60 mm | NOR 90 mm | ACO 175 mm TREATED | ACO 75 mm TREATED | ACO 175 mm UNTREATED | NOR1212 OUTDOOR | GRAS41AO OUTDOOR | NOSE CONE |
|---|---|---|---|---|---|---|---|---|
| **100** | 0.0 | −0.1 | −0.2 | 0.0 | 0.1 | 0.1 | −0.2 | −0.2 |
| **125** | −0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | −0.1 | −0.1 |
| **160** | 0.7 | 0.9 | 0.8 | 0.8 | 0.7 | 1.2 | 0.5 | 0.2 |
| **200** | −0.1 | 0.0 | −0.1 | 0.0 | 0.1 | 0.2 | −0.1 | −0.2 |
| **250** | −0.2 | −0.2 | −0.4 | −0.1 | −0.1 | 0.0 | −0.3 | −0.4 |
| **315** | −0.7 | −0.6 | −0.8 | −0.7 | −0.8 | −0.4 | −0.5 | −0.9 |
| **400** | −0.4 | −0.3 | −0.4 | −0.3 | −0.4 | 0.1 | −0.4 | −0.6 |
| **500** | −0.3 | −0.3 | −0.5 | −0.2 | −0.3 | 0.1 | −0.3 | −0.3 |
| **630** | −0.4 | −0.4 | 0.0 | −0.4 | −0.4 | 0.0 | −0.4 | −0.4 |
| **800** | −0.4 | −0.5 | 0.4 | −0.5 | −0.5 | −0.1 | −0.3 | −0.1 |
| **1K** | −0.2 | −0.2 | 0.7 | −0.2 | −0.2 | 0.2 | −0.3 | −0.6 |
| **1250** | 0.0 | −0.2 | 1.8 | −0.1 | 0.0 | 0.3 | −0.5 | 0.3 |
| **1600** | −0.5 | −0.6 | 2.2 | −0.6 | −0.3 | −0.5 | −0.6 | −0.2 |
| **2K** | −0.4 | −0.7 | 3.7 | −0.4 | 0.3 | −0.3 | −0.8 | −1.1 |
| **2500** | −0.6 | −0.8 | 3.8 | −0.7 | 0.3 | 0.0 | −0.8 | −0.8 |
| **3150** | −0.7 | −0.6 | 4.5 | −0.5 | 0.3 | −0.7 | −0.8 | −0.6 |
| **4K** | −0.7 | −0.3 | 5.3 | −0.2 | 0.5 | −1.0 | −0.7 | −0.9 |
| **5K** | −0.6 | −0.1 | 5.8 | 0.2 | 0.6 | −1.5 | 0.0 | −1.1 |
| **6300** | 0.2 | 0.3 | 7.2 | 1.0 | 1.0 | −2.8 | 0.6 | −1.7 |
| **8K** | 0.2 | 0.3 | 8.0 | 0.8 | 1.0 | −4.1 | 0.2 | −1.9 |
| **10K** | 0.3 | 0.7 | 9.4 | 1.5 | 1.3 | −2.7 | 0.1 | −3.2 |

range from 18 to 31 dBA. Such levels are low to insignificant even compared to the quiet environmental sound levels that commonly exist in rural areas.

As an example, the self-noise sound levels associated with the field data illustrated in Figure 1 have been calculated from Eqn. (2) above (based on the 10 m wind data converted to 1 m) and used to correct the sound levels actually measured. The measured and corrected sound levels are plotted in Fig. 11. Since the microphone flow induced noise response alone is frequently 8 to 10 dBA below the measured levels, the adjustment is minimal in most instances ($=<0.5$ dBA) and therefore considered insignificant.

## 6 ACKNOWLEDGEMENTS

The author wishes to acknowledge both the technical and financial assistance provided by the Norsonic in Germany, Scantek, Inc., GRAS and ACO Pacific in the U.S.

## 7 REFERENCES

1. International Standard IEC 61400-11, *Wind turbine generator systems – Part 11: "Acoustic noise measurement techniques"*, 2nd edition 2002–12, (2002).
2. G. P. van den Berg, "The sound of high winds: the effect of atmospheric stability on wind turbine sound and microphone noise." Ph.D. Thesis, National University of Groningen, The Netherlands, (2006).

# Appendix B

## Certificates of Sound Level Instrument Calibration

**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.43790

*Instrument:* **Sound Level Meter**
*Model:* **2250**
*Manufacturer:* **Brüel and Kjær**
*Serial number:* **3025302**
*Tested with:* **Microphone 4952 s/n 3179704**
**Preamplifier 4952**
*Type (class):* **1**
*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235 / 978-897-0099**

*Date Calibrated:* **10/16/2019** *Cal Due:*

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __ **Yes** _X_ **No**
*Calibration service:* __ **Basic** _X_ **Standard**
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47022043 | Sep 16, 2019 | ACR Env./ A2LA | Sep 16, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 4226-Brüel&Kjær | Multifunction calibrator | 2305103 | Sep 25, 2019 | Brüel&Kjær/ DANAK | Sep 25, 2020 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.1 | 99.80 | 41.9 |

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 10/16/19 | Date | 10/16/2019 |

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT [2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | Passed | 0.3 |
| ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12 | Passed | 0.3 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.2 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.3 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.1 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.1 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: Brüel & Kjær 4952 s/n 3179704 for acoustical test |
| Preamplifier: Brüel & Kjær 4952 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: none |
| Windscreen: none |

**Measured Data:** in Test Report # 43790 of 9+1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.46791

*Instrument:* **Microphone Unit**
*Model:* **4952**
*Manufacturer:* **Brüel & Kjær**
*Serial number:* **3179704**
*Composed of:*

*Date Calibrated:* **10/15/2019** *Cal Due:*

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | **X** | **X** |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __**Yes** _**X**_ **No**

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/978-897-0099**
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47022043 | Sep 16, 2019 | ACR Env./ A2LA | Sep 16, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 1203-Norsonic | Preamplifier | 21270 | Aug 5, 2019 | Scantek, Inc./ NVLAP | Aug 5, 2020 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 1, 2019 | DPLA / DANAK | Oct 24, 2021 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 10/15/19 | Date | 10/16/2019 |

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Document stored as: Z:\Calibration Lab\Mic 2019\B&K4952_3179704_M1.doc

**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Sensitivity (250 Hz) | | X | | | See below |
| Frequency response | Actuator response | | | X | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 d8 |
| | FF/Diffuse field responses | | | X | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.4 ± 1.0 | 100.87 ± 0.020 | 38.6 ± 2.0 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Acceptable Sensitivity (dB re 1 V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -30.28 ± 0.12/ -30.0 ±3.0 | 30.63 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.S. RA0014 |

**Measured Data:** Found on Microphone Test Report # 46791 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.43792

*Instrument:* **Sound Level Meter**
*Model:* **2250**
*Manufacturer:* **Brüel and Kjær**
*Serial number:* **3025395**
*Tested with:* **Microphone 4952 s/n 3179684**
**Preamplifier 4952**
*Type (class):* **1**
*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235 / 978-897-0099**

*Date Calibrated:* **10/15/2019** *Cal Due:*

| *Status:* | Received | Sent |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes X No
*Calibration service:* __ Basic X Standard
*Address:* **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47022043 | Sep 16, 2019 | ACR Env./ A2LA | Sep 16, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 4226-Brüel&Kjær | Multifunction calibrator | 2305103 | Sep 25, 2019 | Brüel&Kjær/ DANAK | Sep 25, 2020 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 23.4 | 100.84 | 39.7 |

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 10/15/19 | Date | 10/16/2019 |

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**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT [2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | Passed | 0.3 |
| ACOUSTICAL TEST OF A FREQUENCY WEIGHTING - IEC 61672-3 ED.2.0 CLAUSE 12 | Passed | 0.3 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.2 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.3 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.1 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.1 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: Brüel & Kjær 4952 s/n 3179684 for acoustical test |
| Preamplifier: Brüel & Kjær 4952 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: none |
| Windscreen: none |

**Measured Data:** in Test Report # 43792 of 9+1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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NVLAP Lab Code: 200625-0

# Calibration Certificate No.43793

*Instrument:* **Microphone Unit**
*Model:* **4952**
*Manufacturer:* **Brüel & Kjær**
*Serial number:* **3179684**
*Composed of:*

*Date Calibrated:* **10/15/2019** *Cal Due:*

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | **X** | **X** |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __**Yes** _**X**_ **No**

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/978-897-0099**
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47022043 | Sep 16, 2019 | ACR Env./ A2LA | Sep 16, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 1203-Norsonic | Preamplifier | 21270 | Aug 5, 2019 | Scantek, Inc./ NVLAP | Aug 5, 2020 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 1, 2019 | DPLA / DANAK | Oct 24, 2021 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 10/15/19 | Date | 10/16/2019 |

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**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Sensitivity (250 Hz) | | X | | | See below |
| Frequency response | Actuator response | | | X | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 dB |
| | FF/Diffuse field responses | | | X | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.7 ± 1.0 | 100.86 ± 0.020 | 39.3 ± 2.0 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Acceptable Sensitivity (dB re 1 V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -30.28 ± 0.12/ -30.0 ±3.0 | 30.61 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.5. RA0014 |

**Measured Data:** Found on Microphone Test Report # 43793 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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NVLAP Lab Code: 200625-0

# Calibration Certificate No.45008

| | |
|---|---|
| *Instrument:* | **Acoustical Calibrator** |
| *Model:* | **CAL200** |
| *Manufacturer:* | **Larson Davis** |
| *Serial number:* | **2853** |
| *Class (IEC 60942):* | **1** |
| *Barometer type:* | |
| *Barometer s/n:* | |
| *Customer:* | **Epsilon Associates, Inc.** |
| *Tel/Fax:* | **978-461-6235 / choyt@epsilonassociates.com** |

*Date Calibrated:* **7/15/2020** *Cal Due:* **7/15/2021**

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | **X** | **X** |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* **__Yes _X_ No**

*Address:* **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31052 | Oct 31, 2019 | Scantek, Inc./ NVLAP | Oct 31, 2020 |
| DS-360-SRS | Function Generator | 33584 | Oct 23, 2019 | ACR Env./ A2LA | Oct 23, 2021 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 22, 2019 | ACR Env. / A2LA | Oct 22, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Oct 24, 2019 | ACR Env./ A2LA | Oct 24, 2020 |
| 140-Norsonic | Real Time Analyzer | 1406423 | Oct 31, 2019 | Scantek / NVLAP | Oct 31, 2020 |
| PC Program 1018 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 4134-Brüel&Kjær | Microphone | 173368 | Oct 23, 2019 | Scantek, Inc. / NVLAP | Oct 23, 2020 |
| 1203-Norsonic | Preamplifier | 14059 | March 3, 2020 | Scantek, Inc./ NVLAP | March 3, 2021 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)**

| **Calibrated by:** | Lydon Dawkins | **Authorized signatory:** | William D. Gallagher |
|---|---|---|---|
| Signature | Lydon Dawkins | Signature | William D. Gallagher |
| Date | 7/15/2020 | Date | 7/17/2020 |

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**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES[1] FROM STANDARDS REFERENCED IN PROCEDURES: | MET[2] | NOT MET | COMMENTS |
|---|---|---|---|
| ***Manufacturer specifications*** | | | |
| Manufacturer specifications: Sound pressure level | X | | |
| Manufacturer specifications: Frequency | X | | |
| Manufacturer specifications: Total harmonic distortion | X | | |
| ***Current standards*** | | | |
| ANSI S1.40:2006 B.3 / IEC 60942: 2003 B.2 - Preliminary inspection | X | | |
| ANSI S1.40:2006 B.4.4 / IEC 60942: 2003 B.3.4 - Sound pressure level | X | | |
| ANSI S1.40:2006 A.5.4 / IEC 60942: 2003 A.4.4 - Sound pressure level stability | - | - | |
| ANSI S1.40:2006 B.4.5 / IEC 60942: 2003 B.3.5 - Frequency | X | | |
| ANSI S1.40:2006 B.4.6 / IEC 60942: 2003 B.3.6 - Total harmonic distortion | X | | |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Main measured parameters [3]:**

| Measured[4]/Acceptable[5] Tone frequency (Hz): | Measured[4]/Acceptable[5] Total Harmonic Distortion (%): | Measured [4]/Acceptable Level[5] (dB): |
|---|---|---|
| 1000.30 ± 1.0/1000.0 ± 10.0 | 0.37 ± 0.10/ < 3 | 93.96 ± 0.13/94.0 ± 0.4 |
| 1000.29 ± 1.0/1000.0 ± 10.0 | 0.37 ± 0.10/ < 3 | 113.89 ± 0.12/114.0 ± 0.4 |

3 The stated level is valid at measurement conditions.

4 The above expanded uncertainties for frequency and distortion are calculated with a coverage factor k=2; for level k=2.00

5 Acceptable parameters values are from the current standards

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 23.2 ± 1.0 | 100.48 ± 0.000 | 40.7 ± 2.0 |

**Tests made with following attachments to instrument:**

| |
|---|
| Calibrator ½" Adaptor Type: |
| Other: |

**Adjustments:** Unit was not adjusted.
**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

*Note:* The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Measured Data:** in Acoustical Calibrator Test Report # 45008 of two pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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NVLAP Lab Code: 200625-0

# Calibration Certificate No.45006

| | |
|---|---|
| *Instrument:* | **Sound Level Meter** |
| *Model:* | **831** |
| *Manufacturer:* | **Larson Davis** |
| *Serial number:* | **0001992** |
| *Tested with:* | **Microphone 377B20 s/n 112340**<br>**Preamplifier PRM831 s/n 015258** |
| *Type (class):* | **1** |
| *Customer:* | **Epsilon Associates, Inc.** |
| *Tel/Fax:* | **978-461-6235 /**<br>**choyt@epsilonassociates.com** |

*Date Calibrated:* **7/16/2020** *Cal Due:* **7/16/2021**

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes _X_ No
*Calibration service:* __ Basic _X_ Standard
*Address:* **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31052 | Oct 31, 2019 | Scantek, Inc./ NVLAP | Oct 31, 2020 |
| DS-360-SRS | Function Generator | 33584 | Oct 23, 2019 | ACR Env./ A2LA | Oct 23, 2021 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 22, 2019 | ACR Env. / A2LA | Oct 22, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Oct 24, 2019 | ACR Env./ A2LA | Oct 24, 2020 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Oct 23, 2019 | Scantek, Inc./ NVLAP | Oct 23, 2020 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.8 | 100.62 | 43.9 |

| **Calibrated by:** | Lydon Dawkins | **Authorized signatory:** | William D. Gallagher |
|---|---|---|---|
| Signature | Lydon Dawkins | Signature | William D Gallagher |
| Date | 7/16/2020 | Date | 7/17/2020 |

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**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT[2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | Passed | 0.30 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.20 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.20 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.20 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.20 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.30 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.10 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.10 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #S.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | See test report |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: PCB Piezotronics 377B20 s/n 112340 for acoustical test |
| Preamplifier: Larson Davis PRM831 s/n 015258 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: Larson Davis CAL200 s/n 7146 |
| Windscreen: none |

**Measured Data:** in Test Report # 45006 of 9 + 1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.45007

*Instrument:* **Microphone**
*Model:* **377B20**
*Manufacturer:* **PCB Piezotronics**
*Serial number:* **112340**
*Composed of:*

*Date Calibrated:* **7/15/2020** *Cal Due:* **7/15/2021**

| *Status:* | Received | Sent |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes _X_ No

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/**
**choyt@epsilonassociates.com**

*Address:*
**3 Mill & Main Place, Suite 250,**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31052 | Oct 31, 2019 | Scantek, Inc./ NVLAP | Oct 31, 2020 |
| DS-360-SRS | Function Generator | 33584 | Oct 23, 2019 | ACR Env./ A2LA | Oct 23, 2021 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 22, 2019 | ACR Env. / A2LA | Oct 22, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Oct 24, 2019 | ACR Env./ A2LA | Oct 24, 2020 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Oct 23, 2019 | Scantek, Inc./ NVLAP | Oct 23, 2020 |
| 1203-Norsonic | Preamplifier | 14059 | March 3, 2020 | Scantek, Inc./ NVLAP | March 3, 2021 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 1, 2019 | DPLA / DANAK | Oct 1, 2021 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| **Calibrated by:** | Lydon Dawkins | **Authorized signatory:** | William D. Gallagher |
|---|---|---|---|
| Signature | Lydon Dawkins | Signature | William D. Gallagher |
| Date | 7/15/2020 | Date | 7/17/2020 |

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This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.
Document stored as: Y:\Calibration Lab\Mic 2020\PCB377B20_112340_M1.doc

**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Open circuit sensitivity (insert voltage method, 250 Hz) | | X | | | See below |
| Frequency response | Actuator response | X | | | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 dB |
| | FF/Diffuse field responses | X | | | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 23.0 ± 1.0 | 100.46 ± 0.020 | 40.6 ± 2.0 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Acceptable Open circuit sensitivity (dB re 1V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -26.70 ± 0.12/ -26.0 ±1.5 | 46.23 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.S. RA0014 |

**Measured Data:** Found on Microphone Test Report # 45007 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

# Calibration Certificate

***Certificate Number 2020006682***

***Customer:***
**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | | |
|---|---|---|---|---|---|
| ***Model Number*** | 377C20 | ***Procedure Number*** | D0001.8387 | | |
| ***Serial Number*** | 317482 | ***Technician*** | Scott Montgomery | | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 16 Jun 2020 | | |
| ***Initial Condition*** | As Manufactured | ***Calibration Due*** | 16 Jun 2021 | | |
| | | ***Temperature*** | 23.6 | °C | ± 0.01 °C |
| ***Description*** | 1/2 inch Microphone - RI - 0V | ***Humidity*** | 35.7 | %RH | ± 0.5 %RH |
| | | ***Static Pressure*** | 101.51 | kPa | ± 0.03 kPa |

***Evaluation Method*** Tested electrically using an electrostatic actuator.

***Compliance Standards*** Compliant to Manufacturer Specifications.

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
**Test points marked with a ‡ do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Larson Davis Model 2900 Real Time Analyzer | 07/01/2019 | 07/01/2020 | 001230 |
| Microphone Calibration System | 08/27/2019 | 08/27/2020 | 001233 |
| 1/2" Preamplifier | 12/17/2019 | 12/17/2020 | 001274 |
| Agilent 34401A DMM | 12/06/2019 | 12/06/2020 | 001329 |
| Larson Davis CAL250 Acoustic Calibrator | 12/23/2019 | 12/23/2020 | 003030 |
| 1/2" Preamplifier | 04/13/2020 | 04/13/2021 | 006506 |
| Larson Davis 1/2" Preamplifier 7-pin LEMO | 07/08/2019 | 07/08/2020 | 006507 |
| 1/2 inch Microphone - RI - 200V | 12/06/2019 | 12/06/2020 | 006511 |
| 1/2 inch Microphone - RI - 200V | 08/06/2019 | 08/06/2020 | 006519 |
| Larson Davis 1/2" Preamplifier 7-pin LEMO | 07/08/2019 | 07/08/2020 | 006530 |
| Larson Davis 1/2" Preamplifier 7-pin LEMO | 08/14/2019 | 08/14/2020 | 006531 |

## Sensitivity

| Measurement | Test Result [mV/Pa] | Lower limit [mV/Pa] | Upper limit [mV/Pa] | Expanded Uncertainty [mV/Pa] | Result |
|---|---|---|---|---|---|
| Open Circuit Sensitivity | 49.26 | 42.17 | 59.57 | 1.11 | Pass |

-- End of measurement results--

## Capacitance

| Measurement | Test Result [pF] | | | | |
|---|---|---|---|---|---|
| Capacitance | 14.00 | | | ‡ | |

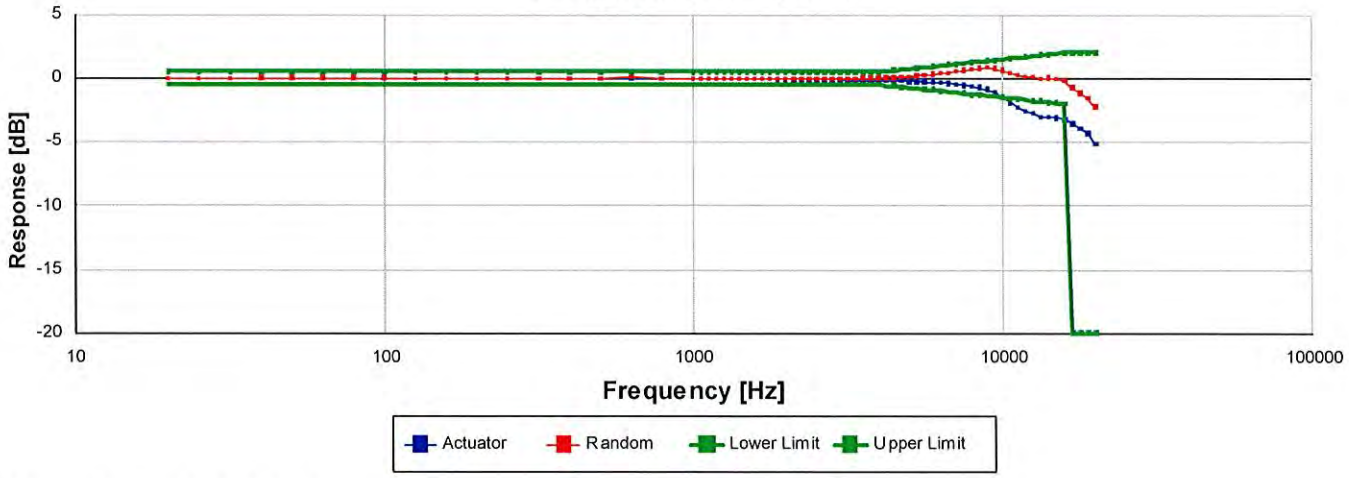
-- End of measurement results--

## Lower Limiting Frequency

| Measurement | Test Result [Hz] | Lower limit [Hz] | Upper limit [Hz] | | Result |
|---|---|---|---|---|---|
| -3 dB Frequency | 1.57 | 1.00 | 2.40 | | Pass ‡ |

-- End of measurement results--

## Frequency Response




Data is normalized for 0 dB @ 251.19 Hz.

| Frequency [Hz] | Actuator [dB] | Random [dB] | Lower limit [dB] | Upper limit [dB] | Result |
|---|---|---|---|---|---|
| 19.95 | -0.06 | -0.06 | -0.50 | 0.50 | Pass ‡ |
| 25.12 | -0.02 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 31.62 | 0.00 | 0.00 | -0.50 | 0.50 | Pass ‡ |
| 39.81 | 0.02 | 0.02 | -0.50 | 0.50 | Pass ‡ |
| 50.12 | 0.01 | 0.01 | -0.50 | 0.50 | Pass ‡ |
| 63.10 | 0.01 | 0.01 | -0.50 | 0.50 | Pass ‡ |
| 79.43 | 0.01 | 0.01 | -0.50 | 0.50 | Pass ‡ |
| 100.00 | 0.01 | 0.01 | -0.50 | 0.50 | Pass ‡ |
| 125.89 | 0.00 | 0.00 | -0.50 | 0.50 | Pass ‡ |
| 158.49 | 0.00 | 0.00 | -0.50 | 0.50 | Pass ‡ |
| 199.53 | 0.00 | 0.00 | -0.50 | 0.50 | Pass ‡ |

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Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

LARSON DAVIS
A PCB PIEZOTRONICS DIV.

| Frequency [Hz] | Actuator [dB] | Random [dB] | Lower limit [dB] | Upper limit [dB] | Result |
|---|---|---|---|---|---|
| 251.19 | 0.00 | 0.00 | -0.50 | 0.50 | Pass ‡ |
| 316.23 | -0.01 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 398.11 | -0.02 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 501.19 | -0.02 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 630.96 | -0.03 | 0.15 | -0.50 | 0.50 | Pass ‡ |
| 794.33 | -0.03 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,000.00 | -0.04 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,059.25 | -0.04 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,122.02 | -0.04 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,188.50 | -0.04 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,258.93 | -0.04 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,333.52 | -0.05 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,412.54 | -0.05 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,496.24 | -0.05 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 1,584.89 | -0.06 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 1,678.80 | -0.06 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 1,778.28 | -0.06 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 1,883.65 | -0.07 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 1,995.26 | -0.07 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 2,113.49 | -0.07 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 2,238.72 | -0.08 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 2,371.37 | -0.08 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 2,511.89 | -0.08 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 2,660.73 | -0.09 | -0.02 | -0.50 | 0.50 | Pass ‡ |
| 2,818.38 | -0.09 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 2,985.38 | -0.10 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 3,162.28 | -0.12 | -0.01 | -0.50 | 0.50 | Pass ‡ |
| 3,349.65 | -0.12 | 0.00 | -0.50 | 0.50 | Pass ‡ |
| 3,548.13 | -0.13 | 0.01 | -0.50 | 0.50 | Pass ‡ |
| 3,758.37 | -0.14 | 0.02 | -0.50 | 0.50 | Pass ‡ |
| 3,981.07 | -0.15 | 0.04 | -0.50 | 0.50 | Pass ‡ |
| 4,216.97 | -0.17 | 0.06 | -0.63 | 0.56 | Pass ‡ |
| 4,466.84 | -0.20 | 0.08 | -0.60 | 0.63 | Pass ‡ |
| 4,731.51 | -0.22 | 0.11 | -0.70 | 0.69 | Pass ‡ |
| 5,011.87 | -0.24 | 0.15 | -0.80 | 0.75 | Pass ‡ |
| 5,308.84 | -0.25 | 0.21 | -0.80 | 0.81 | Pass ‡ |
| 5,623.41 | -0.28 | 0.26 | -0.90 | 0.88 | Pass ‡ |
| 5,956.62 | -0.30 | 0.33 | -0.90 | 0.94 | Pass ‡ |
| 6,309.57 | -0.35 | 0.39 | -1.00 | 1.00 | Pass ‡ |
| 6,683.44 | -0.41 | 0.45 | -1.10 | 1.06 | Pass ‡ |
| 7,079.46 | -0.46 | 0.54 | -1.10 | 1.13 | Pass ‡ |
| 7,498.94 | -0.53 | 0.63 | -1.20 | 1.19 | Pass ‡ |
| 7,943.28 | -0.62 | 0.71 | -1.30 | 1.25 | Pass ‡ |
| 8,413.95 | -0.74 | 0.78 | -1.30 | 1.31 | Pass ‡ |
| 8,912.51 | -0.88 | 0.84 | -1.40 | 1.38 | Pass ‡ |
| 9,440.61 | -1.13 | 0.79 | -1.40 | 1.43 | Pass ‡ |
| 10,000.00 | -1.50 | 0.64 | -1.50 | 1.50 | Pass ‡ |
| 10,592.54 | -1.90 | 0.45 | -1.60 | 1.56 | Pass ‡ |
| 11,220.19 | -2.31 | 0.25 | -1.60 | 1.63 | Pass ‡ |
| 11,885.02 | -2.61 | 0.13 | -1.70 | 1.68 | Pass ‡ |
| 12,589.25 | -2.76 | 0.14 | -1.80 | 1.75 | Pass ‡ |
| 13,335.21 | -3.02 | 0.00 | -1.80 | 1.81 | Pass ‡ |
| 14,125.38 | -3.03 | 0.04 | -1.90 | 1.87 | Pass ‡ |

| Frequency [Hz] | Actuator [dB] | Random [dB] | Lower limit [dB] | Upper limit [dB] | Result |
|---|---|---|---|---|---|
| 14,962.36 | -3.10 | -0.03 | -1.93 | 1.93 | Pass ‡ |
| 15,848.93 | -3.23 | -0.22 | -2.00 | 2.00 | Pass ‡ |
| 16,788.04 | -3.53 | -0.75 | | 2.00 | Pass ‡ |
| 17,782.80 | -3.91 | -1.13 | | 2.00 | Pass ‡ |
| 18,836.49 | -4.30 | -1.57 | | 2.00 | Pass ‡ |
| 19,952.62 | -5.15 | -2.25 | | 2.00 | Pass ‡ |

**-- End of measurement results--**

Signatory: *Scott Montgomery*

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1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

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# Calibration Certificate

***Certificate Number 2020005077***
***Customer:***
**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | | |
|---|---|---|---|---|---|
| ***Model Number*** | PRM831 | ***Procedure Number*** | D0001.8383 | | |
| ***Serial Number*** | 015260 | ***Technician*** | Jason Grace | | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 22 Apr 2020 | | |
| ***Initial Condition*** | AS RECEIVED same as shipped | ***Calibration Due*** | 22 Apr 2021 | | |
| | | ***Temperature*** | 23.83 | °C | ± 0.01 °C |
| ***Description*** | Larson Davis 1/2" Preamplifier for Model 831 Type 1 | ***Humidity*** | 51 | %RH | ± 0.5 %RH |
| | | ***Static Pressure*** | 86.47 | kPa | ± 0.03 kPa |

***Evaluation Method*** Tested electrically using a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

***Compliance Standards*** Compliant to Manufacturer Specifications

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
**Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

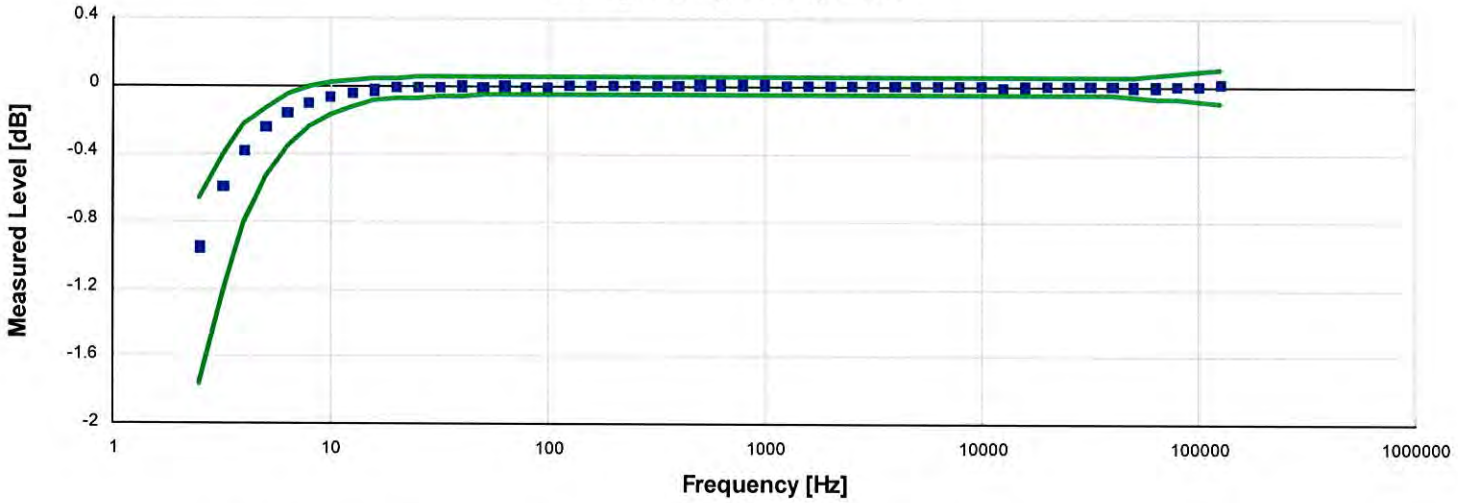
The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Larson Davis Model 2900 Real Time Analyzer | 03/06/2020 | 03/06/2021 | 003003 |
| Hart Scientific 2626-S Humidity/Temperature Sensor | 07/18/2019 | 07/18/2020 | 006946 |
| Agilent 34401A DMM | 07/01/2019 | 07/01/2020 | 007165 |
| SRS DS360 Ultra Low Distortion Generator | 10/03/2019 | 10/03/2020 | 007167 |

## Frequency Response




Frequency response electrically tested at 120.0 dB re 1 µV

| Frequency [Hz] | Test Result [dB re 1 kHz] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 2.50 | -0.96 | -1.76 | -0.66 | 0.12 | Pass |
| 3.20 | -0.59 | -1.20 | -0.40 | 0.12 | Pass |
| 4.00 | -0.38 | -0.81 | -0.23 | 0.12 | Pass |
| 5.00 | -0.25 | -0.53 | -0.13 | 0.12 | Pass |
| 6.30 | -0.16 | -0.36 | -0.05 | 0.12 | Pass |
| 7.90 | -0.11 | -0.24 | -0.01 | 0.12 | Pass |
| 10.00 | -0.07 | -0.17 | 0.03 | 0.12 | Pass |
| 12.60 | -0.05 | -0.13 | 0.04 | 0.12 | Pass |
| 15.80 | -0.03 | -0.09 | 0.04 | 0.12 | Pass |
| 20.00 | -0.01 | -0.08 | 0.05 | 0.12 | Pass |
| 25.10 | -0.01 | -0.07 | 0.05 | 0.12 | Pass |
| 31.60 | -0.01 | -0.07 | 0.05 | 0.12 | Pass |
| 39.80 | 0.00 | -0.06 | 0.05 | 0.12 | Pass |
| 50.10 | -0.01 | -0.06 | 0.05 | 0.12 | Pass |
| 63.10 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 79.40 | -0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 100.00 | -0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 125.90 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 158.50 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 199.50 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 251.20 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 316.20 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 398.10 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 501.20 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 631.00 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 794.30 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 1,000.00 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 1,258.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 1,584.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 1,995.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 2,511.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 3,162.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |

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716-684-0001

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| Frequency [Hz] | Test Result [dB re 1 kHz] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 3,981.10 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 5,011.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 6,309.60 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 7,943.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 10,000.00 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 12,589.30 | -0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 15,848.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 19,952.60 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 25,118.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 31,622.80 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 39,810.70 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 50,118.70 | 0.00 | -0.06 | 0.06 | 0.12 | Pass |
| 63,095.70 | 0.00 | -0.07 | 0.07 | 0.12 | Pass |
| 79,432.80 | 0.00 | -0.08 | 0.08 | 0.12 | Pass |
| 100,000.00 | 0.00 | -0.09 | 0.09 | 0.12 | Pass |
| 125,892.50 | 0.02 | -0.10 | 0.10 | 0.26 | Pass |

## Gain Measurement

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| Output Gain @ 1 kHz | -0.16 | -0.45 | -0.03 | 0.12 | Pass |

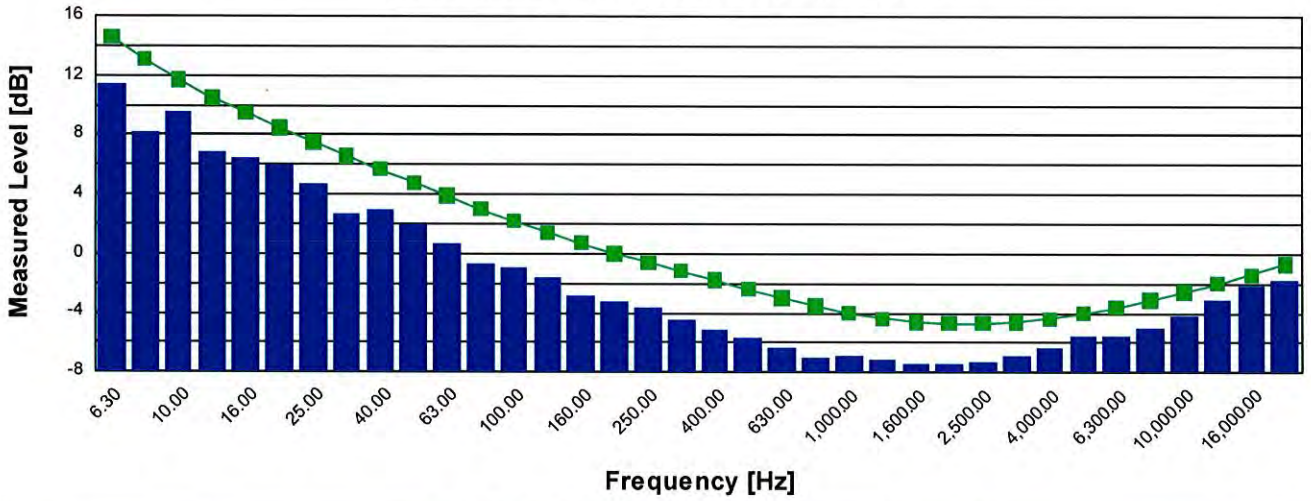
**-- End of measurement results--**

## DC Bias Measurement

| Measurement | Test Result [V] | Lower limit [V] | Upper limit [V] | Expanded Uncertainty [V] | Result |
|---|---|---|---|---|---|
| DC Voltage | 18.02 | 15.50 | 19.50 | 0.04 ‡ | Pass |

**-- End of measurement results--**

## 1/3-Octave Self-Generated Noise




| Frequency [Hz] | Test Result [dB re 1 µV] | Upper limit [dB re 1 µV] | Result |
|---|---|---|---|
| 6.30 | 11.40 | 14.60 | Pass |
| 8.00 | 8.20 | 13.10 | Pass |
| 10.00 | 9.60 | 11.70 | Pass |
| 12.50 | 6.80 | 10.50 | Pass |
| 16.00 | 6.50 | 9.50 | Pass |
| 20.00 | 6.10 | 8.50 | Pass |
| 25.00 | 4.70 | 7.50 | Pass |
| 31.50 | 2.70 | 6.60 | Pass |
| 40.00 | 2.90 | 5.70 | Pass |
| 50.00 | 2.00 | 4.80 | Pass |
| 63.00 | 0.70 | 3.90 | Pass |
| 80.00 | -0.70 | 3.00 | Pass |
| 100.00 | -1.00 | 2.20 | Pass |
| 125.00 | -1.70 | 1.40 | Pass |
| 160.00 | -2.80 | 0.70 | Pass |
| 200.00 | -3.30 | 0.00 | Pass |
| 250.00 | -3.70 | -0.60 | Pass |
| 315.00 | -4.50 | -1.20 | Pass |
| 400.00 | -5.20 | -1.80 | Pass |
| 500.00 | -5.70 | -2.40 | Pass |
| 630.00 | -6.30 | -3.00 | Pass |
| 800.00 | -7.00 | -3.50 | Pass |
| 1,000.00 | -6.90 | -4.00 | Pass |
| 1,250.00 | -7.20 | -4.40 | Pass |
| 1,600.00 | -7.50 | -4.60 | Pass |
| 2,000.00 | -7.40 | -4.70 | Pass |
| 2,500.00 | -7.30 | -4.70 | Pass |
| 3,150.00 | -6.90 | -4.60 | Pass |
| 4,000.00 | -6.30 | -4.40 | Pass |
| 5,000.00 | -5.50 | -4.00 | Pass |
| 6,300.00 | -5.60 | -3.60 | Pass |
| 8,000.00 | -5.00 | -3.10 | Pass |
| 10,000.00 | -4.20 | -2.60 | Pass |
| 12,500.00 | -3.10 | -2.00 | Pass |
| 16,000.00 | -2.20 | -1.40 | Pass |
| 20,000.00 | -1.80 | -0.70 | Pass |

**-- End of measurement results--**

## Self-generated Noise

| Bandwidth | Test Result [µV] | Test Result [dB re 1 µV] | Upper limit [dB re 1 µV] | Result |
|---|---|---|---|---|
| A-weighted (1 Hz - 20 kHz) | 1.97 | 5.90 | 8.00 | Pass |
| Broadband (1 Hz - 20 kHz) | 4.37 | 12.80 | 15.50 | Pass |

**-- End of measurement results--**

Signatory: *Jason Grace*

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# Calibration Certificate

***Certificate Number 2020005080***

***Customer:***

**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | | |
|---|---|---|---|---|---|
| ***Model Number*** | 831 | ***Procedure Number*** | D0001.8378 | | |
| ***Serial Number*** | 0001993 | ***Technician*** | Jason Grace | | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 22 Apr 2020 | | |
| ***Initial Condition*** | Inoperable | ***Calibration Due*** | 22 Apr 2021 | | |
| ***Description*** | Larson Davis Model 831<br>Class 1 Sound Level Meter<br>Firmware Revision: 2.402 | ***Temperature*** | 23.9 | °C | ± 0.25 °C |
| | | ***Humidity*** | 50.6 | %RH | ± 2.0 %RH |
| | | ***Static Pressure*** | 86.48 | kPa | ± 0.13 kPa |

***Evaluation Method*** Tested electrically using Larson Davis PRM831 S/N 015260 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

***Compliance Standards*** Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

| | |
|---|---|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev S, 2019-09-10

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

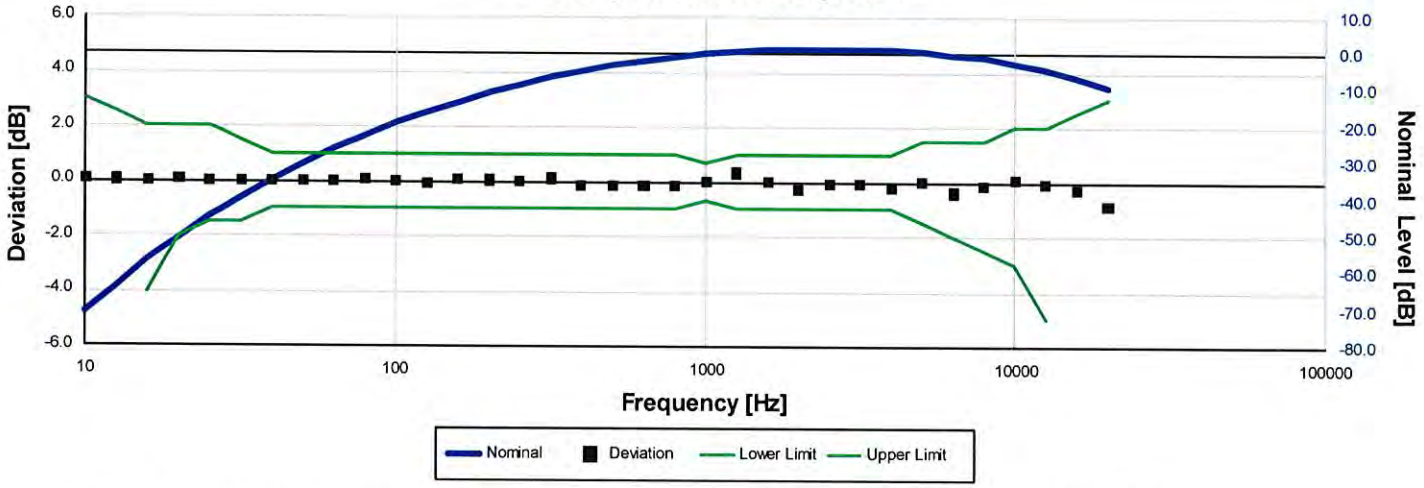
Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Hart Scientific 2626-S Humidity/Temperature Sensor | 2019-07-18 | 2020-07-18 | 006946 |
| SRS DS360 Ultra Low Distortion Generator | 2020-04-14 | 2021-04-14 | 007635 |

## A-weight Filter Response

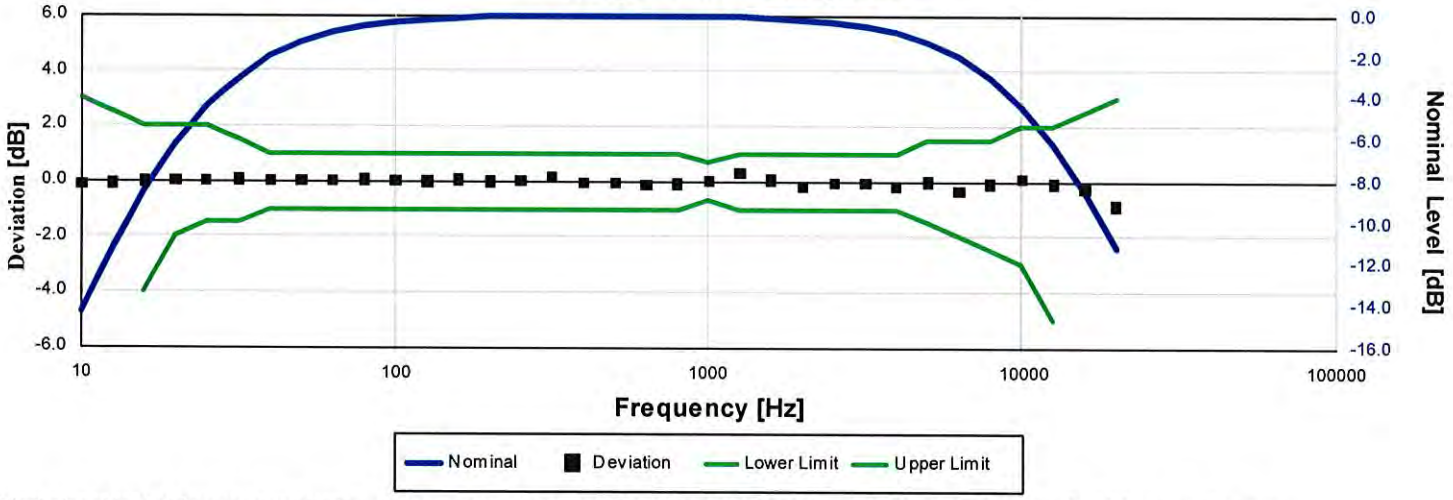



Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Deviation [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 10.00 | -70.29 | 0.11 | -inf | 3.00 | 0.25 | Pass |
| 12.59 | -63.35 | 0.05 | -inf | 2.50 | 0.25 | Pass |
| 15.85 | -56.67 | 0.03 | -4.00 | 2.00 | 0.25 | Pass |
| 19.95 | -50.39 | 0.11 | -2.00 | 2.00 | 0.25 | Pass |
| 25.12 | -44.67 | 0.03 | -1.50 | 2.00 | 0.25 | Pass |
| 31.62 | -39.38 | 0.02 | -1.50 | 1.50 | 0.25 | Pass |
| 39.81 | -34.60 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 50.12 | -30.22 | -0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 63.10 | -26.17 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 79.43 | -22.45 | 0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 100.00 | -19.12 | -0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 125.89 | -16.15 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 158.49 | -13.32 | 0.08 | -1.00 | 1.00 | 0.25 | Pass |
| 199.53 | -10.86 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 251.19 | -8.61 | -0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 316.23 | -6.48 | 0.12 | -1.00 | 1.00 | 0.25 | Pass |
| 398.11 | -4.91 | -0.11 | -1.00 | 1.00 | 0.25 | Pass |
| 501.19 | -3.34 | -0.14 | -1.00 | 1.00 | 0.25 | Pass |
| 630.96 | -2.06 | -0.16 | -1.00 | 1.00 | 0.25 | Pass |
| 794.33 | -0.95 | -0.15 | -1.00 | 1.00 | 0.25 | Pass |
| 1,000.00 | 0.00 | 0.00 | -0.70 | 0.70 | 0.25 | Pass |
| 1,258.93 | 0.93 | 0.33 | -1.00 | 1.00 | 0.25 | Pass |
| 1,584.89 | 1.00 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 1,995.26 | 0.94 | -0.26 | -1.00 | 1.00 | 0.25 | Pass |
| 2,511.89 | 1.20 | -0.10 | -1.00 | 1.00 | 0.25 | Pass |
| 3,162.28 | 1.16 | -0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 3,981.07 | 0.78 | -0.22 | -1.00 | 1.00 | 0.25 | Pass |
| 5,011.87 | 0.51 | 0.01 | -1.50 | 1.50 | 0.25 | Pass |
| 6,309.57 | -0.49 | -0.39 | -2.00 | 1.50 | 0.25 | Pass |
| 7,943.28 | -1.21 | -0.11 | -2.50 | 1.50 | 0.25 | Pass |
| 10,000.00 | -2.42 | 0.08 | -3.00 | 2.00 | 0.25 | Pass |
| 12,589.25 | -4.37 | -0.07 | -5.00 | 2.00 | 0.25 | Pass |
| 15,848.93 | -6.87 | -0.27 | -16.00 | 2.50 | 0.25 | Pass |
| 19,952.62 | -10.16 | -0.86 | -inf | 3.00 | 0.25 | Pass |

**-- End of measurement results--**

## C-weight Filter Response

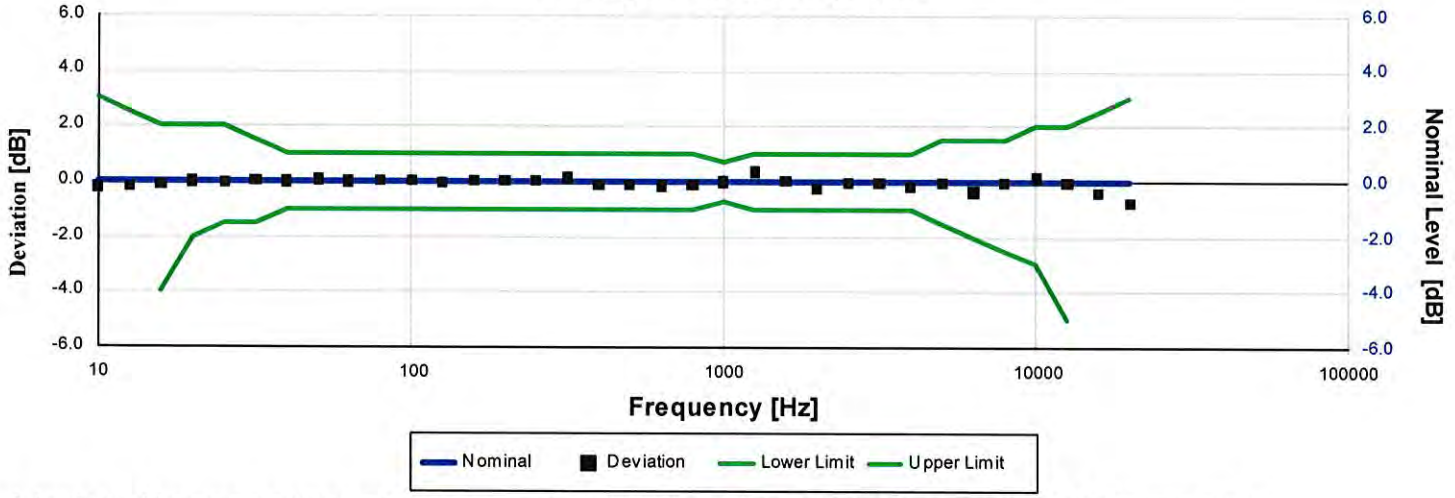



Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Deviation [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 10.00 | -14.43 | -0.13 | -inf | 3.00 | 0.25 | Pass |
| 12.59 | -11.29 | -0.09 | -inf | 2.50 | 0.25 | Pass |
| 15.85 | -8.53 | -0.03 | -4.00 | 2.00 | 0.25 | Pass |
| 19.95 | -6.18 | 0.02 | -2.00 | 2.00 | 0.25 | Pass |
| 25.12 | -4.37 | 0.03 | -1.50 | 2.00 | 0.25 | Pass |
| 31.62 | -2.95 | 0.05 | -1.50 | 1.50 | 0.25 | Pass |
| 39.81 | -1.97 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 50.12 | -1.30 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 63.10 | -0.79 | 0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 79.43 | -0.45 | 0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 100.00 | -0.26 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 125.89 | -0.22 | -0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 158.49 | -0.05 | 0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 199.53 | -0.02 | -0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 251.19 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 316.23 | 0.15 | 0.15 | -1.00 | 1.00 | 0.25 | Pass |
| 398.11 | -0.07 | -0.07 | -1.00 | 1.00 | 0.25 | Pass |
| 501.19 | -0.08 | -0.08 | -1.00 | 1.00 | 0.25 | Pass |
| 630.96 | -0.13 | -0.13 | -1.00 | 1.00 | 0.25 | Pass |
| 794.33 | -0.10 | -0.10 | -1.00 | 1.00 | 0.25 | Pass |
| 1,000.00 | 0.00 | 0.00 | -0.70 | 0.70 | 0.25 | Pass |
| 1,258.93 | 0.32 | 0.32 | -1.00 | 1.00 | 0.25 | Pass |
| 1,584.89 | -0.06 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 1,995.26 | -0.42 | -0.22 | -1.00 | 1.00 | 0.25 | Pass |
| 2,511.89 | -0.36 | -0.06 | -1.00 | 1.00 | 0.25 | Pass |
| 3,162.28 | -0.53 | -0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 3,981.07 | -1.01 | -0.21 | -1.00 | 1.00 | 0.25 | Pass |
| 5,011.87 | -1.33 | -0.03 | -1.50 | 1.50 | 0.25 | Pass |
| 6,309.57 | -2.36 | -0.36 | -2.00 | 1.50 | 0.25 | Pass |
| 7,943.28 | -3.10 | -0.10 | -2.50 | 1.50 | 0.25 | Pass |
| 10,000.00 | -4.33 | 0.07 | -3.00 | 2.00 | 0.25 | Pass |
| 12,589.25 | -6.29 | -0.09 | -5.00 | 2.00 | 0.25 | Pass |
| 15,848.93 | -8.79 | -0.29 | -16.00 | 2.50 | 0.25 | Pass |
| 19,952.62 | -12.08 | -0.88 | -inf | 3.00 | 0.25 | Pass |

**-- End of measurement results--**

## Z-weight Filter Response




Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Deviation [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 10.00 | -0.22 | -0.22 | -inf | 3.00 | 0.25 | Pass |
| 12.59 | -0.18 | -0.18 | -inf | 2.50 | 0.25 | Pass |
| 15.85 | -0.10 | -0.10 | -4.00 | 2.00 | 0.25 | Pass |
| 19.95 | -0.01 | -0.01 | -2.00 | 2.00 | 0.25 | Pass |
| 25.12 | -0.02 | -0.02 | -1.50 | 2.00 | 0.25 | Pass |
| 31.62 | 0.01 | 0.01 | -1.50 | 1.50 | 0.25 | Pass |
| 39.81 | 0.00 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 50.12 | 0.07 | 0.07 | -1.00 | 1.00 | 0.25 | Pass |
| 63.10 | 0.00 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 79.43 | 0.05 | 0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 100.00 | 0.04 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 125.89 | -0.05 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 158.49 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 199.53 | 0.02 | 0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 251.19 | 0.02 | 0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 316.23 | 0.14 | 0.14 | -1.00 | 1.00 | 0.25 | Pass |
| 398.11 | -0.10 | -0.10 | -1.00 | 1.00 | 0.25 | Pass |
| 501.19 | -0.11 | -0.11 | -1.00 | 1.00 | 0.25 | Pass |
| 630.96 | -0.15 | -0.15 | -1.00 | 1.00 | 0.25 | Pass |
| 794.33 | -0.12 | -0.12 | -1.00 | 1.00 | 0.25 | Pass |
| 1,000.00 | 0.00 | 0.00 | -0.70 | 0.70 | 0.25 | Pass |
| 1,258.93 | 0.35 | 0.35 | -1.00 | 1.00 | 0.25 | Pass |
| 1,584.89 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 1,995.26 | -0.25 | -0.25 | -1.00 | 1.00 | 0.25 | Pass |
| 2,511.89 | -0.07 | -0.07 | -1.00 | 1.00 | 0.25 | Pass |
| 3,162.28 | -0.04 | -0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 3,981.07 | -0.20 | -0.20 | -1.00 | 1.00 | 0.25 | Pass |
| 5,011.87 | -0.05 | -0.05 | -1.50 | 1.50 | 0.25 | Pass |
| 6,309.57 | -0.36 | -0.36 | -2.00 | 1.50 | 0.25 | Pass |
| 7,943.28 | -0.06 | -0.06 | -2.50 | 1.50 | 0.25 | Pass |
| 10,000.00 | 0.14 | 0.14 | -3.00 | 2.00 | 0.25 | Pass |
| 12,589.25 | -0.04 | -0.04 | -5.00 | 2.00 | 0.25 | Pass |
| 15,848.93 | -0.39 | -0.39 | -16.00 | 2.50 | 0.25 | Pass |
| 19,952.62 | -0.74 | -0.74 | -inf | 3.00 | 0.25 | Pass |

**-- End of measurement results--**

## High Level Stability

Electrical signal test of high level stability performed according to IEC 61672-3:2013 21 and ANSI S1.4-2014 Part 3: 21 for compliance to IEC 61672-1:2013 5.15 and ANSI S1.4-2014 Part 1: 5.15

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| High Level Stability | 0.00 | -0.10 | 0.10 | 0.00 ‡ | Pass |

**-- End of measurement results--**

## Long-Term Stability

Electrical signal test of long term stability performed according to IEC 61672-3:2013 15 and ANSI S1.4-2014 Part 3: 15 for compliance to ISC 61672-1:2013 5.14 and ANSI S1.4-2014 Part 1: 5.14

| Test Duration [min] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 33 | 0.00 | -0.10 | 0.10 | 0.01 ‡ | Pass |

**-- End of measurement results--**

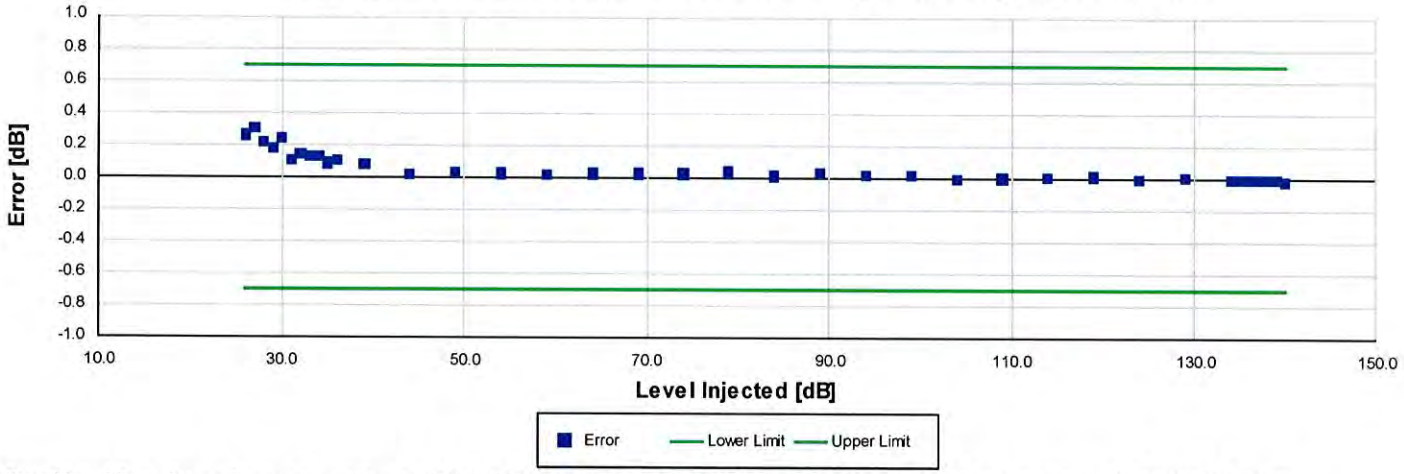
## 1 kHz Reference Levels

Frequency weightings and time weightings at 1 kHz (reference is A weighted Fast) performed according to IEC 61672-3:2013 14 and ANSI S1.4-2014 Part 3: 14 for compliance to IEC 61672-1:2013 5.5.9 and 5.8.3 and ANSI S1.4-2014 Part 1: 5.5.9 and 5.8.3

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| C weight | 114.00 | 113.80 | 114.20 | 0.15 | Pass |
| Z weight | 113.99 | 113.80 | 114.20 | 0.15 | Pass |
| Slow | 114.00 | 113.90 | 114.10 | 0.15 | Pass |
| Impulse | 114.00 | 113.90 | 114.10 | 0.15 | Pass |

**-- End of measurement results--**

## A-weighted 0 dB Gain Broadband Log Linearity: 8,000.00 Hz



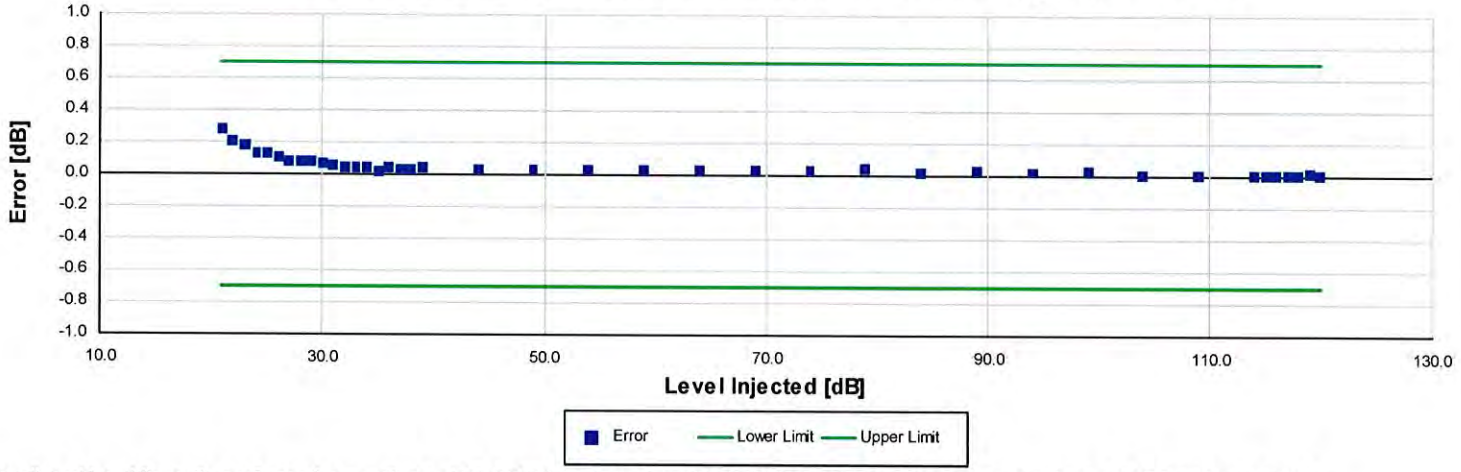

Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 26.00 | 0.26 | -0.70 | 0.70 | 0.16 | Pass |
| 27.00 | 0.30 | -0.70 | 0.70 | 0.16 | Pass |
| 28.00 | 0.22 | -0.70 | 0.70 | 0.16 | Pass |
| 29.00 | 0.18 | -0.70 | 0.70 | 0.16 | Pass |
| 30.00 | 0.24 | -0.70 | 0.70 | 0.16 | Pass |
| 31.00 | 0.10 | -0.70 | 0.70 | 0.16 | Pass |
| 32.00 | 0.14 | -0.70 | 0.70 | 0.16 | Pass |
| 33.00 | 0.13 | -0.70 | 0.70 | 0.16 | Pass |
| 34.00 | 0.13 | -0.70 | 0.70 | 0.16 | Pass |
| 35.00 | 0.09 | -0.70 | 0.70 | 0.16 | Pass |
| 36.00 | 0.11 | -0.70 | 0.70 | 0.16 | Pass |
| 39.00 | 0.08 | -0.70 | 0.70 | 0.16 | Pass |
| 44.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 49.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 54.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 59.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 64.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 69.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 74.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 79.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 84.00 | 0.01 | -0.70 | 0.70 | 0.16 | Pass |
| 89.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 94.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 99.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 104.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 109.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 114.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 119.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 124.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 129.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 134.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 135.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 136.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 137.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 138.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 139.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 140.00 | -0.02 | -0.70 | 0.70 | 0.15 | Pass |

**-- End of measurement results--**

## A-weighted 20 dB Gain Broadband Log Linearity: 8,000.00 Hz




Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 21.00 | 0.27 | -0.70 | 0.70 | 0.16 | Pass |
| 22.00 | 0.21 | -0.70 | 0.70 | 0.16 | Pass |
| 23.00 | 0.17 | -0.70 | 0.70 | 0.16 | Pass |
| 24.00 | 0.13 | -0.70 | 0.70 | 0.16 | Pass |
| 25.00 | 0.13 | -0.70 | 0.70 | 0.16 | Pass |
| 26.00 | 0.10 | -0.70 | 0.70 | 0.16 | Pass |
| 27.00 | 0.08 | -0.70 | 0.70 | 0.16 | Pass |
| 28.00 | 0.07 | -0.70 | 0.70 | 0.16 | Pass |
| 29.00 | 0.08 | -0.70 | 0.70 | 0.16 | Pass |
| 30.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 31.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 32.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 33.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 34.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 35.00 | 0.01 | -0.70 | 0.70 | 0.16 | Pass |
| 36.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 37.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 38.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 39.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 44.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 49.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 54.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 59.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 64.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 69.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 74.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 79.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 84.00 | 0.01 | -0.70 | 0.70 | 0.16 | Pass |
| 89.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 94.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 99.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 104.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 109.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 114.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 115.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 116.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 117.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 118.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 119.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 120.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |

**-- End of measurement results--**

## Slow Detector

Toneburst response performed according to IEC 61672-3:2013 18 and ANSI S1.4-2014 Part 3: 18 for compliance to IEC 61672-1:2013 5.9, IEC 60651:2001 9.4.2, ANSI S1.4:1983 (R2006) 8.4.2 and ANSI S1.4-2014 Part 1: 5.9

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 137.00 | 200 | -7.53 | -7.92 | -6.92 | 0.15 | Pass |
| | 2 | -27.16 | -29.99 | -25.99 | 0.15 | Pass |

**-- End of measurement results--**

## Fast Detector

Toneburst response performed according to IEC 61672-3:2013 18 and ANSI S1.4-2014 Part 3: 18 for compliance to IEC 61672-1:2013 5.9, IEC 60651:2001 9.4.2, ANSI S1.4:1983 (R2006) 8.4.2 and ANSI S1.4-2014 Part 1: 5.9

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 137.00 | 200.00 | -1.05 | -1.48 | -0.48 | 0.15 | Pass |
| | 2.00 | -18.36 | -19.49 | -16.99 | 0.15 | Pass |
| | 0.25 | -27.31 | -29.99 | -25.99 | 0.15 | Pass |

**-- End of measurement results--**

## Sound Exposure Level

Toneburst response performed according to IEC 61672-3:2013 18 and ANSI S1.4-2014 Part 3: 18 for compliance to IEC 61672-1:2013 5.9, IEC 60651:2001 9.4.2, ANSI S1.4:1983 (R2006) 8.4.2 and ANSI S1.4-2014 Part 1: 5.9

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 137.00 | 200.00 | -7.01 | -7.49 | -6.49 | 0.15 | Pass |
| | 2.00 | -27.03 | -28.49 | -25.99 | 0.15 | Pass |
| | 0.25 | -36.14 | -39.02 | -35.02 | 0.15 | Pass |

**-- End of measurement results--**

## Peak C-weight

C-weighted peak sound level performed according to IEC 61672-3:2013 19 and ANSI S1.4-2014 Part 3: 19 for compliance to IEC 61672-1:2013 5.13 and ANSI S1.4-2014 Part 1: 5.13

| Level [dB] | Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 135.00 | 31.50 | 138.19 | 135.50 | 139.50 | 0.15 | Pass |
| 135.00 | 500.00 | 138.56 | 137.50 | 139.50 | 0.15 | Pass |
| 135.00 | 8,000.00 | 137.75 | 136.40 | 140.40 | 0.15 | Pass |
| 135.00, Negative | 500.00 | 137.16 | 136.40 | 138.40 | 0.15 | Pass |
| 135.00, Positive | 500.00 | 137.16 | 136.40 | 138.40 | 0.15 | Pass |

**-- End of measurement results--**

## Peak Z-weight

Z-weighted peak sound level performed according to IEC 60651:2001 9.4.4 and ANSI S1.4:1983 (R2006) 8.4.4

| Amplitude [dB] | Duration[µs] | | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|---|
| 136.00 | 100 | Negative Pulse | 136.33 | 134.01 | 138.01 | 0.15 | Pass |
| | 100 | Positive Pulse | 136.34 | 134.01 | 138.01 | 0.15 | Pass |
| 126.00 | 100 | Negative Pulse | 126.31 | 123.99 | 127.99 | 0.15 | Pass |
| | 100 | Positive Pulse | 126.32 | 123.99 | 127.99 | 0.15 | Pass |
| 116.00 | 100 | Negative Pulse | 116.33 | 114.00 | 118.00 | 0.15 | Pass |
| | 100 | Positive Pulse | 116.33 | 114.00 | 118.00 | 0.15 | Pass |
| 106.00 | 100 | Negative Pulse | 106.29 | 103.95 | 107.95 | 0.15 | Pass |
| | 100 | Positive Pulse | 106.30 | 103.98 | 107.98 | 0.15 | Pass |

**-- End of measurement results--**

## Overload Detector

Overload indication performed according to IEC 61672-3:2013 20 and ANSI S1.4-2014 Part 3: 20 for compliance to IEC 61672-1:2013 5.11, IEC 60804:2000 9.3.5, IEC 61252:2002 11, ANSI S1.4 (R2006) 5.8, and ANSI S1.4-2014 Part 1: 5.11, ANSI S1.25 (R2007) 7.6, ANSI S1.43 (R2007) 7

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| Positive | 141.00 | 140.00 | 142.00 | 0.15 | Pass |
| Negative | 140.90 | 140.00 | 142.00 | 0.15 | Pass |
| Difference | 0.10 | -1.50 | 1.50 | 0.16 | Pass |

**-- End of measurement results--**

## Peak Rise Time

Peak rise time performed according to IEC 60651:2001 9.4.4 and ANSI S1.4:1983 (R2006) 8.4.4

| Amplitude [dB] | Duration [µs] | | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|---|
| 139.00 | 40 | Negative Pulse | 135.95 | 134.51 | 136.51 | 0.15 | Pass |
| | | Positive Pulse | 135.94 | 134.51 | 136.51 | 0.15 | Pass |
| | 30 | Negative Pulse | 134.98 | 134.51 | 136.51 | 0.15 | Pass |
| | | Positive Pulse | 134.97 | 134.51 | 136.51 | 0.15 | Pass |

**-- End of measurement results--**

## Positive Pulse Crest Factor

### 200 µs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

| Amplitude [dB] | Crest Factor | Test Result [dB] | Limits [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 138.00 | 3 | OVLD | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | OVLD | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 128.00 | 3 | -0.13 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.12 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 118.00 | 3 | -0.12 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.12 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.26 | ± 1.50 | 0.15 ‡ | Pass |
| 108.00 | 3 | -0.13 | ± 0.50 | 0.18 ‡ | Pass |
| | 5 | -0.11 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.24 | ± 1.50 | 0.15 ‡ | Pass |

**-- End of measurement results--**

## Negative Pulse Crest Factor

### 200 µs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

| Amplitude [dB] | Crest Factor | Test Result [dB] | Limits [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 138.00 | 3 | OVLD | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | OVLD | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 128.00 | 3 | -0.12 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.12 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 118.00 | 3 | -0.13 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.11 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.25 | ± 1.50 | 0.15 ‡ | Pass |
| 108.00 | 3 | -0.13 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.11 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.24 | ± 1.50 | 0.15 ‡ | Pass |

**-- End of measurement results--**

## Tone Burst

### 2kHz tone burst tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Tone burst response measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

| Amplitude [dB] | Crest Factor | Test Result [dB] | Limits [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 138.00 | 3 | OVLD | ± 0.50 | 0.15 | Pass |
| | 5 | OVLD | ± 1.00 | 0.15 | Pass |
| 128.00 | 3 | -0.07 | ± 0.50 | 0.17 | Pass |
| | 5 | 0.00 | ± 1.00 | 0.15 | Pass |
| 118.00 | 3 | -0.08 | ± 0.50 | 0.15 | Pass |
| | 5 | -0.05 | ± 1.00 | 0.15 | Pass |
| 108.00 | 3 | -0.06 | ± 0.50 | 0.15 | Pass |
| | 5 | -0.01 | ± 1.00 | 0.15 | Pass |

**-- End of measurement results--**

## Impulse Detector - Repeat

Impulse Detector measured according to IEC 60651:2001 9.4.3 and ANSI S1.4:1983 (R2006) 8.4.3

| Amplitude [dB] | Repitition Rate [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 140 | 100.00 | -2.75 | -3.71 | -1.71 | 0.15 | Pass |
| | 20.00 | -7.68 | -9.57 | -5.57 | 0.15 | Pass |
| | 2.00 | -8.86 | -10.76 | -6.76 | 0.15 | Pass |
| Step | 2.00 | 4.96 | 4.00 | 6.00 | 0.16 | Pass |

**-- End of measurement results--**

## Impulse Detector - Single

Impulse Detector measured according to IEC 60651:2001 9.4.3 and ANSI S1.4:1983 (R2006) 8.4.3

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 140 | 20.00 | -3.72 | -5.11 | -2.11 | 0.15 | Pass |
| | 5.00 | -8.84 | -10.76 | -6.76 | 0.16 | Pass |
| | 2.00 | -12.68 | -14.55 | -10.55 | 0.16 | Pass |
| Step | 2.00 | 10.02 | 9.00 | 11.00 | 0.16 | Pass |

**-- End of measurement results--**

## Gain

Gain measured according to IEC 61672-3:2013 17.3 and 17.4 and ANSI S1.4-2014 Part 3: 17.3 and 17.4

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 0 dB Gain | 94.03 | 93.91 | 94.11 | 0.15 | Pass |
| 0 dB Gain, Linearity | 29.18 | 28.31 | 29.71 | 0.16 | Pass |
| 20 dB Gain | 94.03 | 93.91 | 94.11 | 0.15 | Pass |
| 20 dB Gain, Linearity | 24.12 | 23.31 | 24.71 | 0.16 | Pass |
| OBA Low Range | 94.01 | 93.91 | 94.11 | 0.15 | Pass |
| OBA Normal Range | 94.01 | 93.20 | 94.80 | 0.15 | Pass |

**-- End of measurement results--**

## Broadband Noise Floor

Self-generated noise measured according to IEC 61672-3:2013 11.2 and ANSI S1.4-2014 Part 3: 11.2

| Measurement | Test Result [dB] | Upper limit [dB] | Result |
|---|---|---|---|
| A-weight Noise Floor | 6.90 | 15.00 | Pass |
| C-weight Noise Floor | 11.76 | 17.30 | Pass |
| Z-weight Noise Floor | 20.35 | 24.50 | Pass |

**-- End of measurement results--**

## Total Harmonic Distortion

Measured using 1/3-Octave filters

| Measurement | Test Result [dB] | Lower Limit [dB] | Upper Limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 10 Hz Signal | 137.55 | 137.20 | 138.80 | 0.15 | Pass |
| THD | -69.80 | | -60.00 | 0.00 ‡ | Pass |
| THD+N | -64.51 | | -60.00 | 0.00 ‡ | Pass |

**-- End of measurement results--**

**-- End of Report--**

Signatory: *Jason Grace*

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED
Cert. #3622.01

LARSON DAVIS
A PCB PIEZOTRONICS DIV.

# Calibration Certificate

***Certificate Number 2020005088***

***Customer:***

**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | | |
|---|---|---|---|---|---|
| ***Model Number*** | 831 | ***Procedure Number*** | D0001.8384 | | |
| ***Serial Number*** | 0001993 | ***Technician*** | Jason Grace | | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 22 Apr 2020 | | |
| ***Initial Condition*** | Inoperable | ***Calibration Due*** | 22 Apr 2021 | | |
| ***Description*** | Larson Davis Model 831<br>Class 1 Sound Level Meter<br>Firmware Revision: 2.402 | ***Temperature*** | 23.9 | °C | ± 0.25 °C |
| | | ***Humidity*** | 50.9 | %RH | ± 2.0 %RH |
| | | ***Static Pressure*** | 86.41 | kPa | ± 0.13 kPa |

***Evaluation Method***

***Tested with:***

Larson Davis PRM831. S/N 015260
PCB 377B20. S/N 110889
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

***Data reported in dB re 20 µPa.***

***Compliance Standards*** Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

| | |
|---|---|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
**Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev O, 2016-09-19

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Larson Davis CAL291 Residual Intensity Calibrator | 2019-09-18 | 2020-09-18 | 001250 |
| SRS DS360 Ultra Low Distortion Generator | 2019-06-14 | 2020-06-14 | 006311 |
| Hart Scientific 2626-S Humidity/Temperature Sensor | 2019-07-18 | 2020-07-18 | 006946 |
| Larson Davis CAL200 Acoustic Calibrator | 2019-07-22 | 2020-07-22 | 007027 |
| Larson Davis Model 831 | 2020-03-02 | 2021-03-02 | 007182 |
| PCB 377A13 1/2 inch Prepolarized Pressure Microphone | 2020-03-05 | 2021-03-05 | 007185 |

## Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

| Measurement | Test Result [dB] | Lower Limit [dB] | Upper Limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 1000 Hz | 114.00 | 113.80 | 114.20 | 0.14 | Pass |

As Received Level: 112.53
Adjusted Level: 114.00

**-- End of measurement results--**

## Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Expected [dB] | Lower Limit [dB] | Upper Limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 125 | -0.17 | -0.20 | -1.20 | 0.80 | 0.23 | Pass |
| 1000 | 0.04 | 0.00 | -0.70 | 0.70 | 0.23 | Pass |
| 8000 | -1.69 | -3.00 | -5.50 | -1.50 | 0.32 | Pass |

**-- End of measurement results--**

## Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

| Measurement | Test Result [dB] |
|---|---|
| A-weighted, 20 dB gain | 43.67 |

**-- End of measurement results--**

**-- End of Report--**

Signatory: *Jason Grace*

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

LARSON DAVIS
A PCB PIEZOTRONICS DIV.

**Scantek, Inc.**
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ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

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CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.43714

*Instrument:* **Sound Level Meter**
*Model:* **831**
*Manufacturer:* **Larson Davis**
*Serial number:* **0003047**
*Tested with:* **Microphone 377B20 s/n LW130579**
**Preamplifier PRM831 s/n 023825**
*Type (class):* **1**
*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235 / 978-897-0099**

*Date Calibrated:* **9/30/2019** *Cal Due:*

| *Status:* | Received | Sent |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes X No
*Calibration service:* __ Basic X Standard
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 1, 2018 | ACR Env. / A2LA | Oct 1, 2019 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 21.2 | 100.85 | 59.1 |

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | Jeremy Gotwalt | Signature | Steven E. Marshall |
| Date | 9/30/19 | Date | 10/1/2019 |

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**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT[2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | Passed | 0.3 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.2 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.3 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.1 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.1 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | See test report |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: PCB Piezotronics 377B20 s/n LW130579 for acoustical test |
| Preamplifier: Larson Davis PRM831 s/n 023825 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: Larson Davis CAL200 s/n 7147 |
| Windscreen: none |

**Measured Data:** in Test Report # 43714 of 9+1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

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CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.43715

*Instrument:* **Microphone**
*Model:* **377B20**
*Manufacturer:* **PCB Piezotronics**
*Serial number:* **LW130579**
*Composed of:*

*Date Calibrated:* **9/30/2019** *Cal Due:*

| | Received | Sent |
|---|---|---|
| *Status:* | | |
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes _X_ No

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/978-897-0099**
*Address:* **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 1, 2018 | ACR Env. / A2LA | Oct 1, 2019 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 1203-Norsonic | Preamplifier | 21270 | Aug 5, 2019 | Scantek, Inc./ NVLAP | Aug 5, 2020 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 24, 2017 | DANAK / DPLA | Oct 24, 2019 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| Calibrated by: | Jeremy Gotwalt | Authorized signatory: | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 9/30/19 | Date | 10/1/2019 |

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Document stored as: Z:\Calibration Lab\Mic 2019\PCB377B20_LW130579_M1.doc

**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Open circuit sensitivity (insert voltage method, 250 Hz) | | X | | | See below |
| Frequency response | Actuator response | X | | | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 dB |
| | FF/Diffuse field responses | X | | | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 21.8 ± 1.0 | 100.94 ± 0.020 | 64.7 ± 2.0 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Acceptable Open circuit sensitivity (dB re 1V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -26.76 ± 0.12/ -26.0 ±1.5 | 45.92 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.S. RA0014 |

**Measured Data:** Found on Microphone Test Report # 43715 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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NVLAP Lab Code: 200625-0

# Calibration Certificate No.43716

*Instrument:* **Sound Level Meter**
*Model:* **831**
*Manufacturer:* **Larson Davis**
*Serial number:* **0003752**
*Tested with:* **Microphone 377C20 s/n 165015**
**Preamplifier PRM831 s/n 029563**
*Type (class):* **1**
*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235 / 978-897-0099**

*Date Calibrated:* **10/1/2019** *Cal Due:*

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes X No
*Calibration service:* __ Basic X Standard
*Address:* **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 1, 2018 | ACR Env. / A2LA | Oct 1, 2019 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 23.6 | 100.51 | 54.0 |

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 10/1/19 | Date | 10/1/2019 |

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This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES[1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT[2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | Passed | 0.3 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.2 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.3 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.1 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.1 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | See test report |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: PCB Piezotronics 377C20 s/n 165015 for acoustical test |
| Preamplifier: Larson Davis PRM831 s/n 029563 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: Larson Davis CAL200 s/n 7147 |
| Windscreen: none |

**Measured Data:** in Test Report # 43716 of 9+1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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NVLAP Lab Code: 200625-0

# Calibration Certificate No.43717

*Instrument:* **Microphone**
*Model:* **377C20**
*Manufacturer:* **PCB Piezotronics**
*Serial number:* **165015**
*Composed of:*

*Date Calibrated:* **9/30/2019** *Cal Due:*

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | **X** | **X** |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __**Yes** _**X**_ **No**

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/978-897-0099**
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 1, 2018 | ACR Env. / A2LA | Oct 1, 2019 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 1203-Norsonic | Preamplifier | 21270 | Aug 5, 2019 | Scantek, Inc./ NVLAP | Aug 5, 2020 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 24, 2017 | DANAK / DPLA | Oct 24, 2019 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 9/30/19 | Date | 10/1/2019 |

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Document stored as: Z:\Calibration Lab\Mic 2019\PCB377B20_165015_M1.doc

**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Open circuit sensitivity (insert voltage method, 250 Hz) | | X | | | See below |
| Frequency response | Actuator response | X | | | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 dB |
| | FF/Diffuse field responses | X | | | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

| **Comments:** | The instrument was tested and met all specifications found in the referenced procedures. |
|---|---|

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 21.4 ± 1.0 | 100.94 ± 0.020 | 54.4 ± 2.0 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Acceptable Open circuit sensitivity (dB re 1V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -27.19 ± 0.12/ -26.0 ±1.5 | 43.71 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.S. RA0014 |

**Measured Data:** Found on Microphone Test Report # 43717 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.43718

*Instrument:* **Sound Level Meter**
*Model:* **831**
*Manufacturer:* **Larson Davis**
*Serial number:* **0003753**
*Tested with:* **Microphone 377B20 s/n 142956**
**Preamplifier PRM831 s/n 029564**
*Type (class):* **1**
*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235 / 978-897-0099**

*Date Calibrated:* **10/1/2019** *Cal Due:*

| *Status:* | Received | Sent |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* ___Yes _X_ No
*Calibration service:* ___ Basic _X_ Standard
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 1, 2018 | ACR Env. / A2LA | Oct 1, 2019 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.8 | 100.50 | 54.4 |

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 10/1/19 | Date | 10/1/2019 |

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**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES [1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT [2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | Passed | 0.3 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.2 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| LEVEL LINEARITY INCLUDING THE LEVEL RANGE CONTROL - IEC 61672-3 ED.2.0 CLAUSE 17 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.3 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.1 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.1 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | See test report |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: PCB Piezotronics 377B20 s/n 142956 for acoustical test |
| Preamplifier: Larson Davis PRM831 s/n 029564 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: Larson Davis CAL200 s/n 7147 |
| Windscreen: none |

**Measured Data:** in Test Report # 43718 of 9+1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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**Scantek, Inc.**
CALIBRATION LABORATORY
ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.43719

*Instrument:* **Microphone**
*Model:* **377B20**
*Manufacturer:* **PCB Piezotronics**
*Serial number:* **142956**
*Composed of:*

*Date Calibrated:* **9/30/2019** *Cal Due:*

| *Status:* | **Received** | **Sent** |
|---|---|---|
| *In tolerance:* | **X** | **X** |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __**Yes** _**X**_ **No**

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/978-897-0099**
*Address:* **3 Mill & Main Place, Suite 250, Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2020 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 1, 2018 | ACR Env. / A2LA | Oct 1, 2019 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Nov 13, 2018 | ACR Env./ A2LA | Nov 13, 2019 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Nov 11, 2018 | Scantek, Inc./ NVLAP | Nov 11, 2019 |
| 1203-Norsonic | Preamplifier | 21270 | Aug 5, 2019 | Scantek, Inc./ NVLAP | Aug 5, 2020 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 24, 2017 | DANAK / DPLA | Oct 24, 2019 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 9/30/19 | Date | 10/1/2019 |

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Document stored as: Z:\Calibration Lab\Mic 2019\PCB377B20_142956_M1.doc

**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Open circuit sensitivity (insert voltage method, 250 Hz) | | X | | | See below |
| Frequency response | Actuator response | X | | | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 dB |
| | FF/Diffuse field responses | X | | | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 21.5 ± 1.0 | 100.94 ± 0.020 | 67.5 ± 2.0 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Acceptable Open circuit sensitivity (dB re 1V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -26.89 ± 0.12/ -26.0 ±1.5 | 45.23 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.S. RA0014 |

**Measured Data:** Found on Microphone Test Report # 43719 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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# Calibration Certificate

***Certificate Number 2020000001***

***Customer:***

**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | | |
|---|---|---|---|---|---|
| ***Model Number*** | PRM831 | ***Procedure Number*** | D0001.8383 | | |
| ***Serial Number*** | 016477 | ***Technician*** | Ron Harris | | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 2 Jan 2020 | | |
| ***Initial Condition*** | AS RECEIVED same as shipped | ***Calibration Due*** | 2 Jan 2021 | | |
| | | ***Temperature*** | 22.95 | °C | ± 0.01 °C |
| ***Description*** | Larson Davis 1/2" Preamplifier for Model 831 Type 1 | ***Humidity*** | 51.8 | %RH | ± 0.5 %RH |
| | | ***Static Pressure*** | 85.9 | kPa | ± 0.03 kPa |

***Evaluation Method*** Tested electrically using a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

***Compliance Standards*** Compliant to Manufacturer Specifications

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
**Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

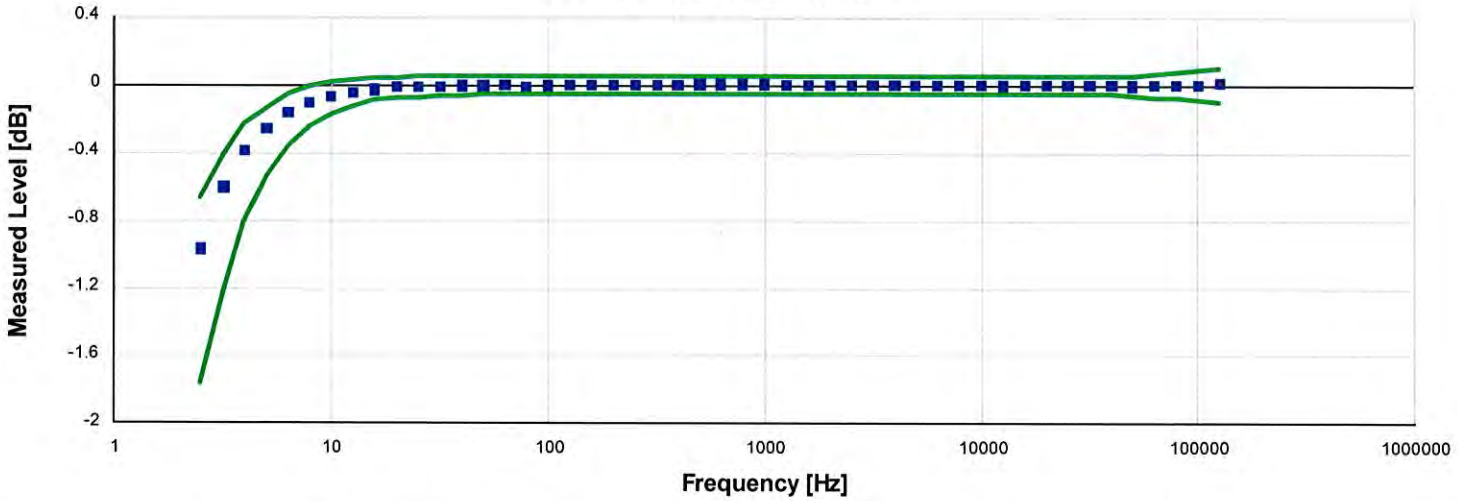
The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Larson Davis Model 2900 Real Time Analyzer | 03/07/2019 | 03/07/2020 | 003003 |
| Hart Scientific 2626-S Humidity/Temperature Sensor | 07/18/2019 | 07/18/2020 | 006946 |
| Agilent 34401A DMM | 07/01/2019 | 07/01/2020 | 007165 |
| SRS DS360 Ultra Low Distortion Generator | 10/03/2019 | 10/03/2020 | 007167 |

## Frequency Response




Frequency response electrically tested at 120.0 dB re 1 µV

| Frequency [Hz] | Test Result [dB re 1 kHz] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 2.50 | -0.97 | -1.76 | -0.66 | 0.12 | Pass |
| 3.20 | -0.60 | -1.20 | -0.40 | 0.12 | Pass |
| 4.00 | -0.39 | -0.81 | -0.23 | 0.12 | Pass |
| 5.00 | -0.25 | -0.53 | -0.13 | 0.12 | Pass |
| 6.30 | -0.16 | -0.36 | -0.05 | 0.12 | Pass |
| 7.90 | -0.11 | -0.24 | -0.01 | 0.12 | Pass |
| 10.00 | -0.07 | -0.17 | 0.03 | 0.12 | Pass |
| 12.60 | -0.05 | -0.13 | 0.04 | 0.12 | Pass |
| 15.80 | -0.03 | -0.09 | 0.04 | 0.12 | Pass |
| 20.00 | -0.01 | -0.08 | 0.05 | 0.12 | Pass |
| 25.10 | -0.01 | -0.07 | 0.05 | 0.12 | Pass |
| 31.60 | -0.01 | -0.07 | 0.05 | 0.12 | Pass |
| 39.80 | 0.00 | -0.06 | 0.05 | 0.12 | Pass |
| 50.10 | 0.00 | -0.06 | 0.05 | 0.12 | Pass |
| 63.10 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 79.40 | -0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 100.00 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 125.90 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 158.50 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 199.50 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 251.20 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 316.20 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 398.10 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 501.20 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 631.00 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 794.30 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 1,000.00 | 0.01 | -0.05 | 0.05 | 0.12 | Pass |
| 1,258.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 1,584.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 1,995.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 2,511.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 3,162.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |

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Provo, UT 84601, United States
716-684-0001

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| Frequency [Hz] | Test Result [dB re 1 kHz] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 3,981.10 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 5,011.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 6,309.60 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 7,943.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 10,000.00 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 12,589.30 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 15,848.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 19,952.60 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 25,118.90 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 31,622.80 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 39,810.70 | 0.00 | -0.05 | 0.05 | 0.12 | Pass |
| 50,118.70 | 0.00 | -0.06 | 0.06 | 0.12 | Pass |
| 63,095.70 | 0.00 | -0.07 | 0.07 | 0.12 | Pass |
| 79,432.80 | 0.00 | -0.08 | 0.08 | 0.12 | Pass |
| 100,000.00 | 0.00 | -0.09 | 0.09 | 0.12 | Pass |
| 125,892.50 | 0.02 | -0.10 | 0.10 | 0.26 | Pass |

## Gain Measurement

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| Output Gain @ 1 kHz | -0.13 | -0.45 | -0.03 | 0.12 | Pass |

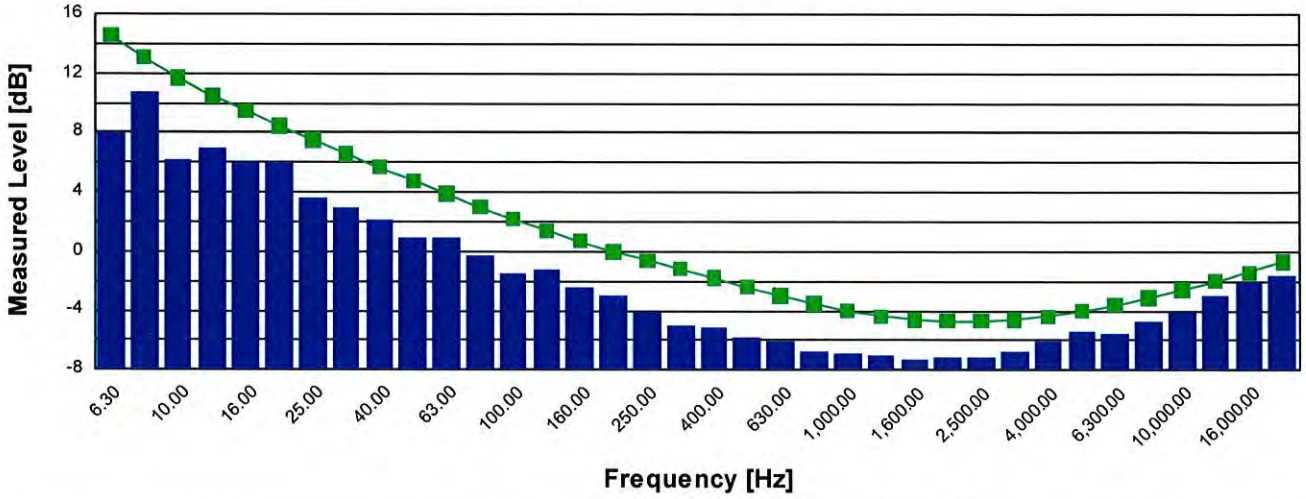
**-- End of measurement results--**

## DC Bias Measurement

| Measurement | Test Result [V] | Lower limit [V] | Upper limit [V] | Expanded Uncertainty [V] | Result |
|---|---|---|---|---|---|
| DC Voltage | 17.96 | 15.50 | 19.50 | 0.04 ‡ | Pass |

**-- End of measurement results--**

## 1/3-Octave Self-Generated Noise




| Frequency [Hz] | Test Result [dB re 1 µV] | Upper limit [dB re 1 µV] | Result |
|---|---|---|---|
| 6.30 | 8.10 | 14.60 | Pass |
| 8.00 | 10.80 | 13.10 | Pass |
| 10.00 | 6.20 | 11.70 | Pass |
| 12.50 | 7.00 | 10.50 | Pass |
| 16.00 | 6.00 | 9.50 | Pass |
| 20.00 | 6.00 | 8.50 | Pass |
| 25.00 | 3.60 | 7.50 | Pass |
| 31.50 | 2.90 | 6.60 | Pass |
| 40.00 | 2.20 | 5.70 | Pass |
| 50.00 | 0.90 | 4.80 | Pass |
| 63.00 | 0.90 | 3.90 | Pass |
| 80.00 | -0.30 | 3.00 | Pass |
| 100.00 | -1.50 | 2.20 | Pass |
| 125.00 | -1.20 | 1.40 | Pass |
| 160.00 | -2.50 | 0.70 | Pass |
| 200.00 | -3.00 | 0.00 | Pass |
| 250.00 | -4.00 | -0.60 | Pass |
| 315.00 | -5.00 | -1.20 | Pass |
| 400.00 | -5.20 | -1.80 | Pass |
| 500.00 | -5.80 | -2.40 | Pass |
| 630.00 | -6.10 | -3.00 | Pass |
| 800.00 | -6.70 | -3.50 | Pass |
| 1,000.00 | -6.90 | -4.00 | Pass |
| 1,250.00 | -7.00 | -4.40 | Pass |
| 1,600.00 | -7.30 | -4.60 | Pass |
| 2,000.00 | -7.20 | -4.70 | Pass |
| 2,500.00 | -7.10 | -4.70 | Pass |
| 3,150.00 | -6.70 | -4.60 | Pass |
| 4,000.00 | -6.10 | -4.40 | Pass |
| 5,000.00 | -5.40 | -4.00 | Pass |
| 6,300.00 | -5.50 | -3.60 | Pass |
| 8,000.00 | -4.80 | -3.10 | Pass |
| 10,000.00 | -4.10 | -2.60 | Pass |
| 12,500.00 | -3.00 | -2.00 | Pass |
| 16,000.00 | -2.10 | -1.40 | Pass |
| 20,000.00 | -1.70 | -0.70 | Pass |

**-- End of measurement results--**

## Self-generated Noise

| Bandwidth | Test Result [µV] | Test Result [dB re 1 µV] | Upper limit [dB re 1 µV] | Result |
|---|---|---|---|---|
| A-weighted (1 Hz - 20 kHz) | 2.00 | 6.00 | 8.00 | Pass |
| Broadband (1 Hz - 20 kHz) | 4.27 | 12.60 | 15.50 | Pass |

**-- End of measurement results--**

Signatory: *Ron Harris*

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Provo, UT 84601, United States
716-684-0001

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A PCB PIEZOTRONICS DIV.

# Calibration Certificate

***Certificate Number 2020000028***

***Customer:***

**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | | |
|---|---|---|---|---|---|
| ***Model Number*** | 831 | ***Procedure Number*** | D0001.8384 | | |
| ***Serial Number*** | 0002154 | ***Technician*** | Ron Harris | | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 2 Jan 2020 | | |
| ***Initial Condition*** | AS RECEIVED same as shipped | ***Calibration Due*** | 2 Jan 2021 | | |
| ***Description*** | Larson Davis Model 831<br>Class 1 Sound Level Meter<br>Firmware Revision: 2.402 | ***Temperature*** | 23.65 | °C | ± 0.25 °C |
| | | ***Humidity*** | 51.8 | %RH | ± 2.0 %RH |
| | | ***Static Pressure*** | 86.18 | kPa | ± 0.13 kPa |

***Evaluation Method***

***Tested with:***

Larson Davis PRM831. S/N 016477
PCB 377B20. S/N 112245
Larson Davis CAL200. S/N 9079
Larson Davis CAL291. S/N 0108

***Data reported in dB re 20 µPa.***

***Compliance Standards***

Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

| | |
|---|---|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005.
**Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev O, 2016-09-19

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

1/2" adaptor is used with the preamplifier.

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Larson Davis CAL291 Residual Intensity Calibrator | 2019-09-18 | 2020-09-18 | 001250 |
| SRS DS360 Ultra Low Distortion Generator | 2019-06-14 | 2020-06-14 | 006311 |
| Hart Scientific 2626-S Humidity/Temperature Sensor | 2019-07-18 | 2020-07-18 | 006946 |
| Larson Davis CAL200 Acoustic Calibrator | 2019-07-22 | 2020-07-22 | 007027 |
| Larson Davis Model 831 | 2019-02-22 | 2020-02-22 | 007182 |
| PCB 377A13 1/2 inch Prepolarized Pressure Microphone | 2019-03-06 | 2020-03-06 | 007185 |

## Acoustic Calibration

Measured according to IEC 61672-3:2013 10 and ANSI S1.4-2014 Part 3: 10

| Measurement | Test Result [dB] | Lower Limit [dB] | Upper Limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 1000 Hz | 114.01 | 113.80 | 114.20 | 0.14 | Pass |

As Received Level: 114.19
Adjusted Level: 114.00

**-- End of measurement results--**

## Acoustic Signal Tests, C-weighting

Measured according to IEC 61672-3:2013 12 and ANSI S1.4-2014 Part 3: 12 using a comparison coupler with Unit Under Test (UUT) and reference SLM using slow time-weighted sound level for compliance to IEC 61672-1:2013 5.5; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Expected [dB] | Lower Limit [dB] | Upper Limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 125 | -0.08 | -0.20 | -1.20 | 0.80 | 0.23 | Pass |
| 1000 | 0.07 | 0.00 | -0.70 | 0.70 | 0.23 | Pass |
| 8000 | -3.67 | -3.00 | -5.50 | -1.50 | 0.32 | Pass |

**-- End of measurement results--**

## Self-generated Noise

Measured according to IEC 61672-3:2013 11.1 and ANSI S1.4-2014 Part 3: 11.1

| Measurement | Test Result [dB] |
|---|---|
| A-weighted, 20 dB gain | 40.75 |

**-- End of measurement results--**

**-- End of Report--**

Signatory: *Ron Harris*

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

LARSON DAVIS
A PCB PIEZOTRONICS DIV.

# Calibration Certificate

***Certificate Number 2020000002***

***Customer:***

**Epsilon Associates Inc**
**Suite 250**
**3 Mill and Main Place**
**Maynard, MA 01754, United States**

| | | | | |
|---|---|---|---|---|
| ***Model Number*** | 831 | ***Procedure Number*** | D0001.8378 | |
| ***Serial Number*** | 0002154 | ***Technician*** | Ron Harris | |
| ***Test Results*** | **Pass** | ***Calibration Date*** | 2 Jan 2020 | |
| ***Initial Condition*** | AS RECEIVED same as shipped | ***Calibration Due*** | 2 Jan 2021 | |
| ***Description*** | Larson Davis Model 831<br>Class 1 Sound Level Meter<br>Firmware Revision: 2.402 | ***Temperature*** | 23.26 °C | ± 0.25 °C |
| | | ***Humidity*** | 51.6 %RH | ± 2.0 %RH |
| | | ***Static Pressure*** | 85.93 kPa | ± 0.13 kPa |

***Evaluation Method*** Tested electrically using Larson Davis PRM831 S/N 016477 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

***Compliance Standards*** Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

| | |
|---|---|
| IEC 60651:2001 Type 1 | ANSI S1.4-2014 Class 1 |
| IEC 60804:2000 Type 1 | ANSI S1.4 (R2006) Type 1 |
| IEC 61252:2002 | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007) |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1 |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev S, 2019-09-10

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

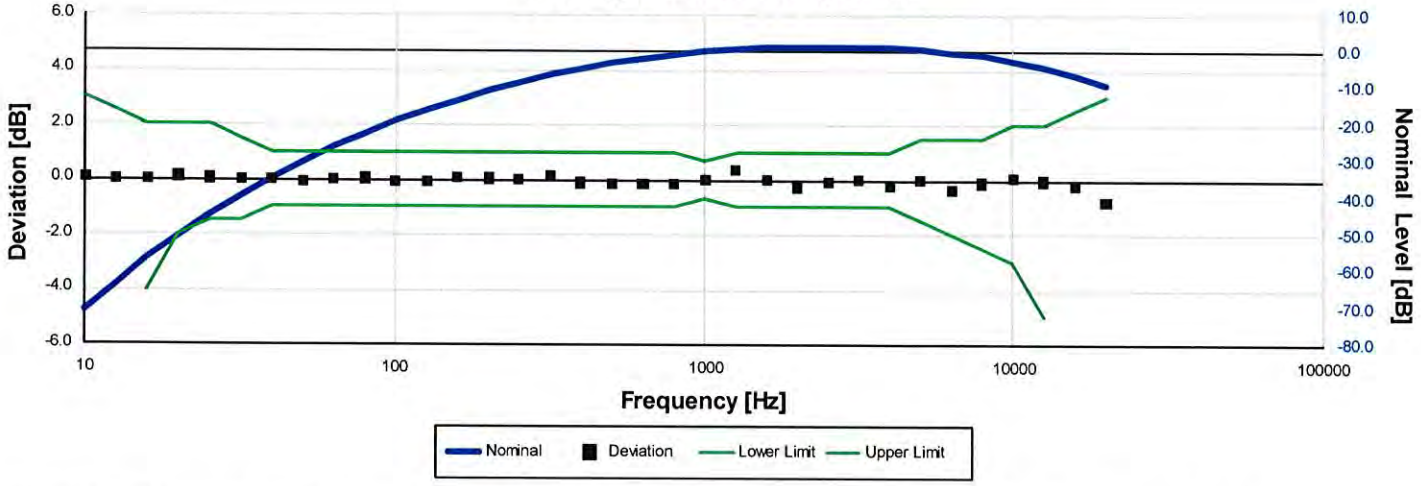
Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

**Standards Used**

| Description | Cal Date | Cal Due | Cal Standard |
|---|---|---|---|
| Hart Scientific 2626-S Humidity/Temperature Sensor | 2019-07-18 | 2020-07-18 | 006946 |
| SRS DS360 Ultra Low Distortion Generator | 2019-01-24 | 2020-01-24 | 007118 |

## A-weight Filter Response

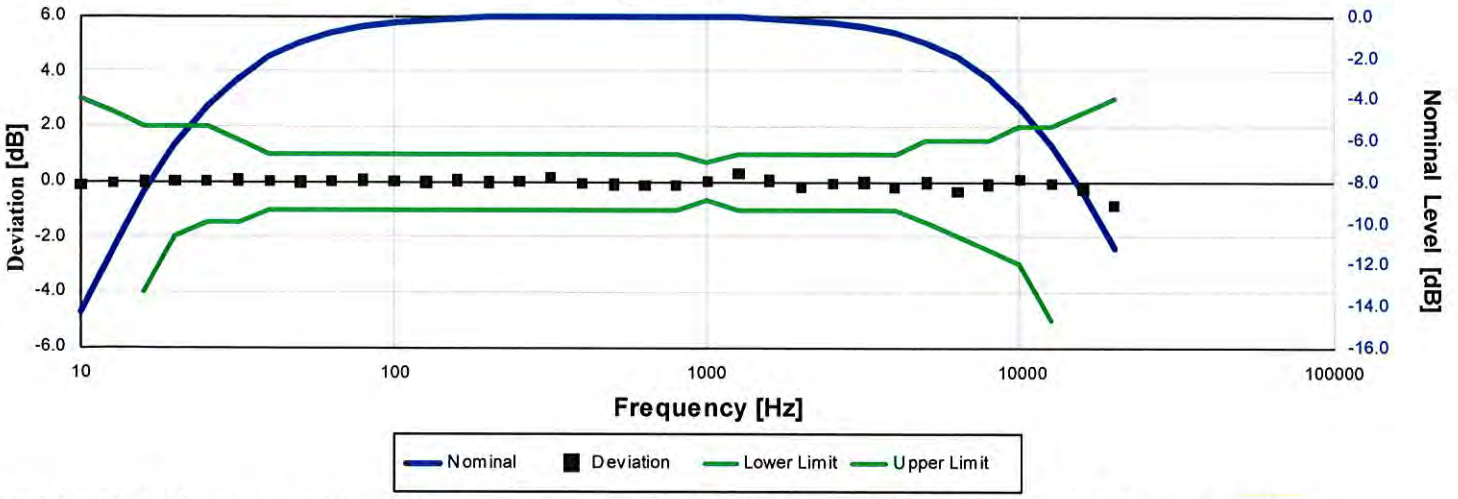



Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Deviation [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 10.00 | -70.31 | 0.09 | -inf | 3.00 | 0.25 | Pass |
| 12.59 | -63.38 | 0.02 | -inf | 2.50 | 0.25 | Pass |
| 15.85 | -56.67 | 0.03 | -4.00 | 2.00 | 0.25 | Pass |
| 19.95 | -50.39 | 0.11 | -2.00 | 2.00 | 0.25 | Pass |
| 25.12 | -44.66 | 0.04 | -1.50 | 2.00 | 0.25 | Pass |
| 31.62 | -39.39 | 0.01 | -1.50 | 1.50 | 0.25 | Pass |
| 39.81 | -34.60 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 50.12 | -30.25 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 63.10 | -26.18 | 0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 79.43 | -22.46 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 100.00 | -19.15 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 125.89 | -16.15 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 158.49 | -13.32 | 0.08 | -1.00 | 1.00 | 0.25 | Pass |
| 199.53 | -10.86 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 251.19 | -8.60 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 316.23 | -6.48 | 0.12 | -1.00 | 1.00 | 0.25 | Pass |
| 398.11 | -4.90 | -0.10 | -1.00 | 1.00 | 0.25 | Pass |
| 501.19 | -3.35 | -0.15 | -1.00 | 1.00 | 0.25 | Pass |
| 630.96 | -2.06 | -0.16 | -1.00 | 1.00 | 0.25 | Pass |
| 794.33 | -0.95 | -0.15 | -1.00 | 1.00 | 0.25 | Pass |
| 1,000.00 | 0.00 | 0.00 | -0.70 | 0.70 | 0.25 | Pass |
| 1,258.93 | 0.94 | 0.34 | -1.00 | 1.00 | 0.25 | Pass |
| 1,584.89 | 1.01 | 0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 1,995.26 | 0.95 | -0.25 | -1.00 | 1.00 | 0.25 | Pass |
| 2,511.89 | 1.22 | -0.08 | -1.00 | 1.00 | 0.25 | Pass |
| 3,162.28 | 1.17 | -0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 3,981.07 | 0.79 | -0.21 | -1.00 | 1.00 | 0.25 | Pass |
| 5,011.87 | 0.51 | 0.01 | -1.50 | 1.50 | 0.25 | Pass |
| 6,309.57 | -0.48 | -0.38 | -2.00 | 1.50 | 0.25 | Pass |
| 7,943.28 | -1.20 | -0.10 | -2.50 | 1.50 | 0.25 | Pass |
| 10,000.00 | -2.41 | 0.09 | -3.00 | 2.00 | 0.25 | Pass |
| 12,589.25 | -4.33 | -0.03 | -5.00 | 2.00 | 0.25 | Pass |
| 15,848.93 | -6.82 | -0.22 | -16.00 | 2.50 | 0.25 | Pass |
| 19,952.62 | -10.10 | -0.80 | -inf | 3.00 | 0.25 | Pass |

**-- End of measurement results--**

## C-weight Filter Response

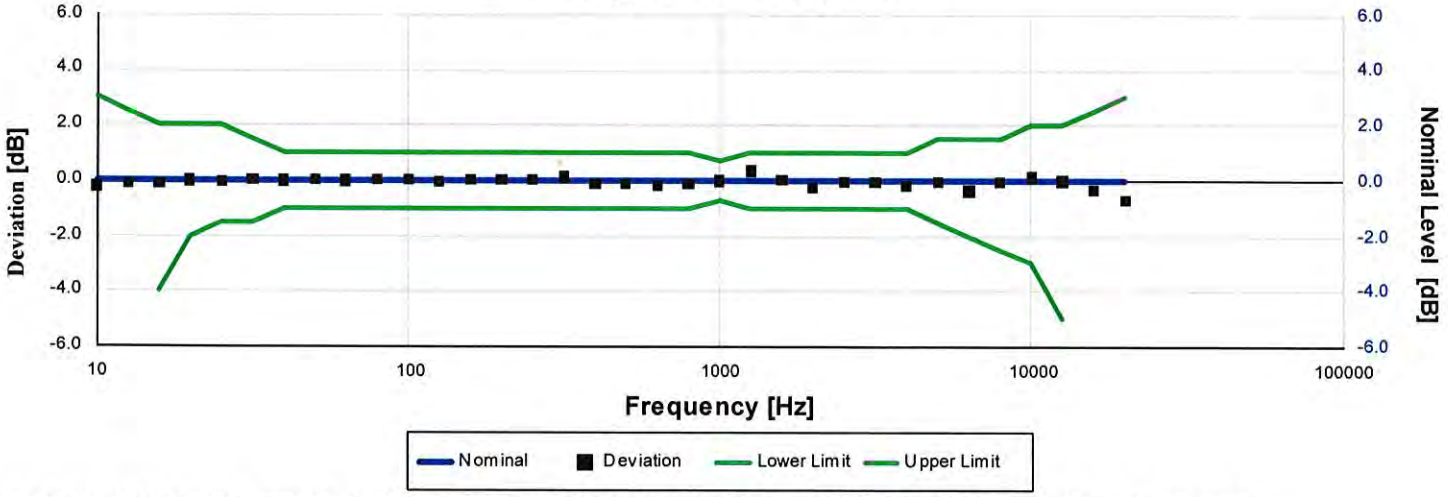



Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Deviation [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 10.00 | -14.43 | -0.13 | -inf | 3.00 | 0.25 | Pass |
| 12.59 | -11.27 | -0.07 | -inf | 2.50 | 0.25 | Pass |
| 15.85 | -8.52 | -0.02 | -4.00 | 2.00 | 0.25 | Pass |
| 19.95 | -6.18 | 0.02 | -2.00 | 2.00 | 0.25 | Pass |
| 25.12 | -4.36 | 0.04 | -1.50 | 2.00 | 0.25 | Pass |
| 31.62 | -2.96 | 0.04 | -1.50 | 1.50 | 0.25 | Pass |
| 39.81 | -1.97 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 50.12 | -1.31 | -0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 63.10 | -0.80 | 0.00 | -1.00 | 1.00 | 0.25 | Pass |
| 79.43 | -0.46 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 100.00 | -0.31 | -0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 125.89 | -0.22 | -0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 158.49 | -0.05 | 0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 199.53 | -0.01 | -0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 251.19 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 316.23 | 0.15 | 0.15 | -1.00 | 1.00 | 0.25 | Pass |
| 398.11 | -0.07 | -0.07 | -1.00 | 1.00 | 0.25 | Pass |
| 501.19 | -0.09 | -0.09 | -1.00 | 1.00 | 0.25 | Pass |
| 630.96 | -0.13 | -0.13 | -1.00 | 1.00 | 0.25 | Pass |
| 794.33 | -0.11 | -0.11 | -1.00 | 1.00 | 0.25 | Pass |
| 1,000.00 | 0.00 | 0.00 | -0.70 | 0.70 | 0.25 | Pass |
| 1,258.93 | 0.32 | 0.32 | -1.00 | 1.00 | 0.25 | Pass |
| 1,584.89 | -0.05 | 0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 1,995.26 | -0.41 | -0.21 | -1.00 | 1.00 | 0.25 | Pass |
| 2,511.89 | -0.35 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 3,162.28 | -0.53 | -0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 3,981.07 | -1.00 | -0.20 | -1.00 | 1.00 | 0.25 | Pass |
| 5,011.87 | -1.33 | -0.03 | -1.50 | 1.50 | 0.25 | Pass |
| 6,309.57 | -2.36 | -0.36 | -2.00 | 1.50 | 0.25 | Pass |
| 7,943.28 | -3.10 | -0.10 | -2.50 | 1.50 | 0.25 | Pass |
| 10,000.00 | -4.32 | 0.08 | -3.00 | 2.00 | 0.25 | Pass |
| 12,589.25 | -6.25 | -0.05 | -5.00 | 2.00 | 0.25 | Pass |
| 15,848.93 | -8.74 | -0.25 | -16.00 | 2.50 | 0.25 | Pass |
| 19,952.62 | -12.03 | -0.83 | -inf | 3.00 | 0.25 | Pass |

**-- End of measurement results--**

## Z-weight Filter Response




Electrical signal test of frequency weighting performed according to IEC 61672-3:2013 13 and ANSI S1.4-2014 Part 3: 13 for compliance to IEC 61672-1:2013 5.5; IEC 60651:2001 6.1 and 9.2.2; IEC 60804:2000 5; ANSI S1.4:1983 (R2006) 5.1 and 8.2.1; ANSI S1.4-2014 Part 1: 5.5

| Frequency [Hz] | Test Result [dB] | Deviation [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 10.00 | -0.22 | -0.22 | -inf | 3.00 | 0.25 | Pass |
| 12.59 | -0.13 | -0.13 | -inf | 2.50 | 0.25 | Pass |
| 15.85 | -0.10 | -0.10 | -4.00 | 2.00 | 0.25 | Pass |
| 19.95 | -0.01 | -0.01 | -2.00 | 2.00 | 0.25 | Pass |
| 25.12 | -0.02 | -0.02 | -1.50 | 2.00 | 0.25 | Pass |
| 31.62 | 0.01 | 0.01 | -1.50 | 1.50 | 0.25 | Pass |
| 39.81 | -0.01 | -0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 50.12 | 0.02 | 0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 63.10 | -0.01 | -0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 79.43 | 0.04 | 0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 100.00 | 0.02 | 0.02 | -1.00 | 1.00 | 0.25 | Pass |
| 125.89 | -0.05 | -0.05 | -1.00 | 1.00 | 0.25 | Pass |
| 158.49 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 199.53 | 0.01 | 0.01 | -1.00 | 1.00 | 0.25 | Pass |
| 251.19 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 316.23 | 0.14 | 0.14 | -1.00 | 1.00 | 0.25 | Pass |
| 398.11 | -0.10 | -0.10 | -1.00 | 1.00 | 0.25 | Pass |
| 501.19 | -0.12 | -0.12 | -1.00 | 1.00 | 0.25 | Pass |
| 630.96 | -0.16 | -0.16 | -1.00 | 1.00 | 0.25 | Pass |
| 794.33 | -0.13 | -0.13 | -1.00 | 1.00 | 0.25 | Pass |
| 1,000.00 | 0.00 | 0.00 | -0.70 | 0.70 | 0.25 | Pass |
| 1,258.93 | 0.35 | 0.35 | -1.00 | 1.00 | 0.25 | Pass |
| 1,584.89 | 0.03 | 0.03 | -1.00 | 1.00 | 0.25 | Pass |
| 1,995.26 | -0.25 | -0.25 | -1.00 | 1.00 | 0.25 | Pass |
| 2,511.89 | -0.06 | -0.06 | -1.00 | 1.00 | 0.25 | Pass |
| 3,162.28 | -0.04 | -0.04 | -1.00 | 1.00 | 0.25 | Pass |
| 3,981.07 | -0.20 | -0.20 | -1.00 | 1.00 | 0.25 | Pass |
| 5,011.87 | -0.05 | -0.05 | -1.50 | 1.50 | 0.25 | Pass |
| 6,309.57 | -0.36 | -0.36 | -2.00 | 1.50 | 0.25 | Pass |
| 7,943.28 | -0.06 | -0.06 | -2.50 | 1.50 | 0.25 | Pass |
| 10,000.00 | 0.14 | 0.14 | -3.00 | 2.00 | 0.25 | Pass |
| 12,589.25 | -0.01 | -0.01 | -5.00 | 2.00 | 0.25 | Pass |
| 15,848.93 | -0.35 | -0.35 | -16.00 | 2.50 | 0.25 | Pass |
| 19,952.62 | -0.69 | -0.69 | -inf | 3.00 | 0.25 | Pass |

**-- End of measurement results--**

## High Level Stability

Electrical signal test of high level stability performed according to IEC 61672-3:2013 21 and ANSI S1.4-2014 Part 3: 21 for compliance to IEC 61672-1:2013 5.15 and ANSI S1.4-2014 Part 1: 5.15

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| High Level Stability | 0.00 | -0.10 | 0.10 | 0.01 ‡ | Pass |

**-- End of measurement results--**

## Long-Term Stability

Electrical signal test of long term stability performed according to IEC 61672-3:2013 15 and ANSI S1.4-2014 Part 3: 15 for compliance to ISC 61672-1:2013 5.14 and ANSI S1.4-2014 Part 1: 5.14

| Test Duration [min] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 35 | 0.00 | -0.10 | 0.10 | 0.01 ‡ | Pass |

**-- End of measurement results--**

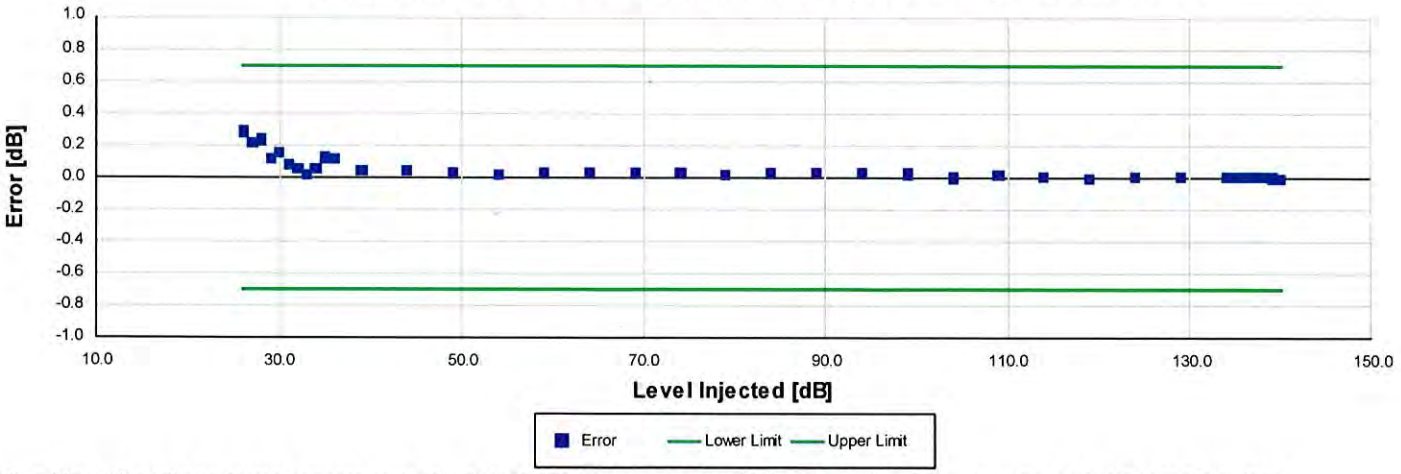
## 1 kHz Reference Levels

Frequency weightings and time weightings at 1 kHz (reference is A weighted Fast) performed according to IEC 61672-3:2013 14 and ANSI S1.4-2014 Part 3: 14 for compliance to IEC 61672-1:2013 5.5.9 and 5.8.3 and ANSI S1.4-2014 Part 1: 5.5.9 and 5.8.3

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| C weight | 114.00 | 113.80 | 114.20 | 0.15 | Pass |
| Z weight | 113.99 | 113.80 | 114.20 | 0.15 | Pass |
| Slow | 114.00 | 113.90 | 114.10 | 0.15 | Pass |
| Impulse | 114.00 | 113.90 | 114.10 | 0.15 | Pass |

**-- End of measurement results--**

## A-weighted 0 dB Gain Broadband Log Linearity: 8,000.00 Hz



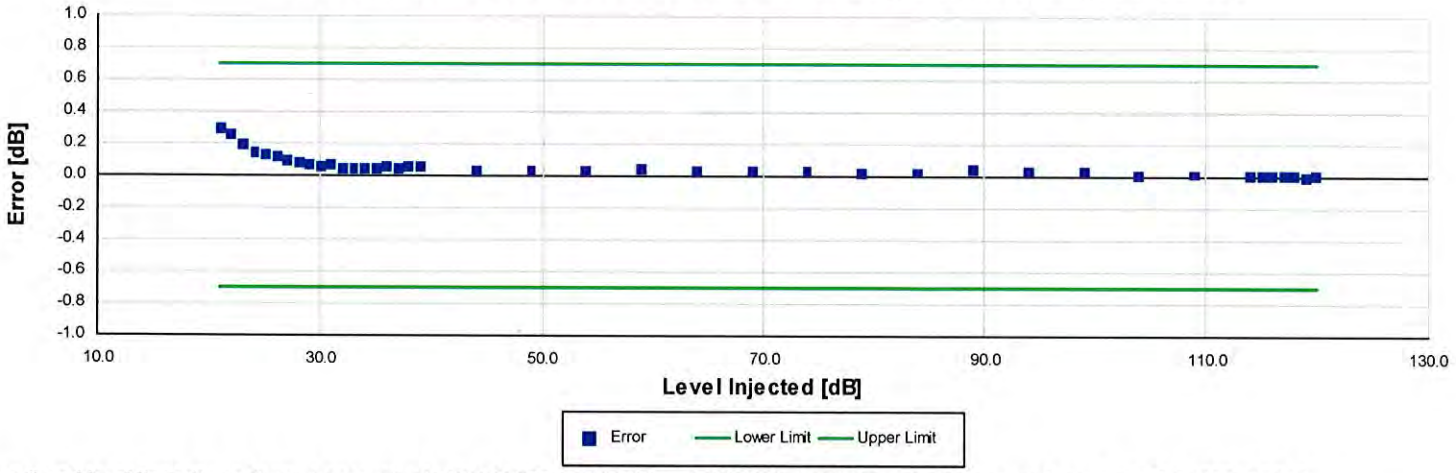

Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 26.00 | 0.28 | -0.70 | 0.70 | 0.16 | Pass |
| 27.00 | 0.22 | -0.70 | 0.70 | 0.16 | Pass |
| 28.00 | 0.24 | -0.70 | 0.70 | 0.16 | Pass |
| 29.00 | 0.12 | -0.70 | 0.70 | 0.16 | Pass |
| 30.00 | 0.15 | -0.70 | 0.70 | 0.16 | Pass |
| 31.00 | 0.08 | -0.70 | 0.70 | 0.16 | Pass |
| 32.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 33.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 34.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 35.00 | 0.12 | -0.70 | 0.70 | 0.16 | Pass |
| 36.00 | 0.12 | -0.70 | 0.70 | 0.16 | Pass |
| 39.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 44.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 49.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 54.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 59.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 64.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 69.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 74.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 79.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 84.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 89.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 94.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 99.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 104.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 109.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 114.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 119.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 124.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 129.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 134.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 135.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 136.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 137.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 138.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 139.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 140.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |

**-- End of measurement results--**

## A-weighted 20 dB Gain Broadband Log Linearity: 8,000.00 Hz



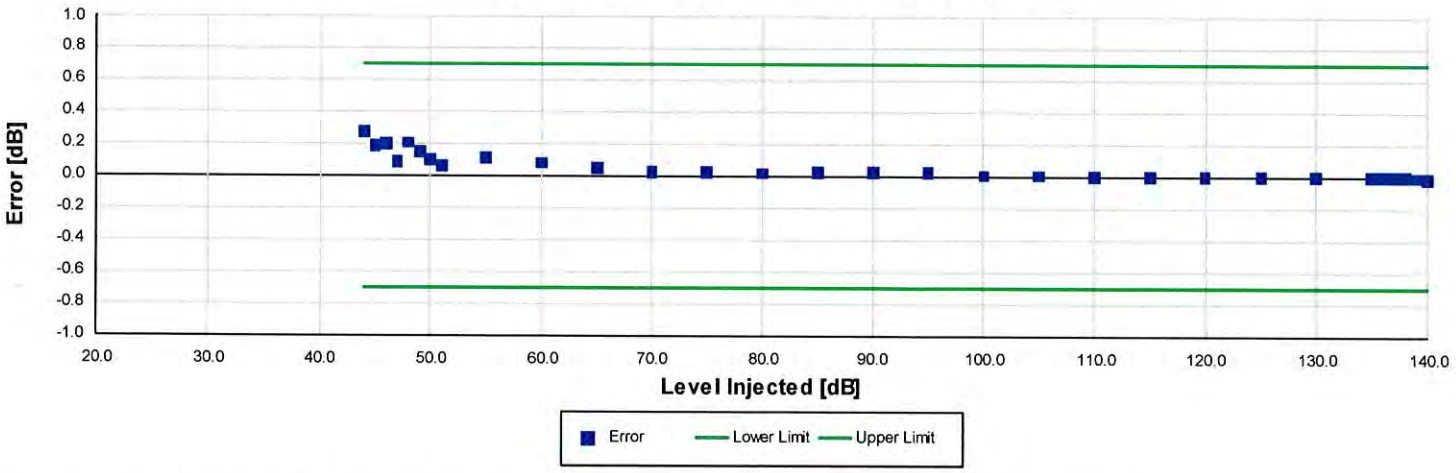

Broadband level linearity performed according to IEC 61672-3:2013 16 and ANSI S1.4-2014 Part 3: 16 for compliance to IEC 61672-1:2013 5.6, IEC 60804:2000 6.2, IEC 61252:2002 8, ANSI S1.4 (R2006) 6.9, ANSI S1.4-2014 Part 1: 5.6, ANSI S1.43 (R2007) 6.2

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 21.00 | 0.29 | -0.70 | 0.70 | 0.16 | Pass |
| 22.00 | 0.25 | -0.70 | 0.70 | 0.16 | Pass |
| 23.00 | 0.19 | -0.70 | 0.70 | 0.16 | Pass |
| 24.00 | 0.14 | -0.70 | 0.70 | 0.16 | Pass |
| 25.00 | 0.13 | -0.70 | 0.70 | 0.16 | Pass |
| 26.00 | 0.12 | -0.70 | 0.70 | 0.16 | Pass |
| 27.00 | 0.09 | -0.70 | 0.70 | 0.16 | Pass |
| 28.00 | 0.08 | -0.70 | 0.70 | 0.16 | Pass |
| 29.00 | 0.07 | -0.70 | 0.70 | 0.16 | Pass |
| 30.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 31.00 | 0.07 | -0.70 | 0.70 | 0.16 | Pass |
| 32.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 33.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 34.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 35.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 36.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 37.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 38.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 39.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 44.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 49.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 54.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 59.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 64.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 69.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 74.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 79.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 84.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 89.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 94.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 99.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 104.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 109.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 114.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 115.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 116.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 117.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 118.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 119.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 120.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |

**-- End of measurement results--**

## 1/1 Octave Log Linearity: 1,000.00 Hz

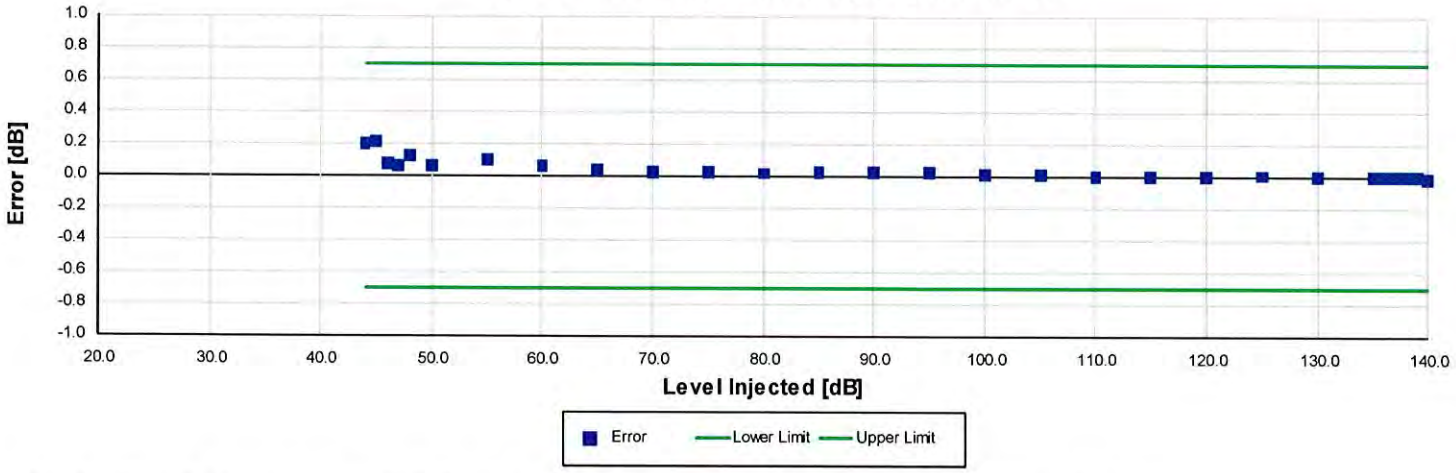



1/1 octave level linearity at normal range with 0 dB gain performed according to IEC 61260:2001 4.6, ANSI S.11 (R2009) 4.6

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 44.00 | 0.27 | -0.70 | 0.70 | 0.16 | Pass |
| 45.00 | 0.19 | -0.70 | 0.70 | 0.16 | Pass |
| 46.00 | 0.20 | -0.70 | 0.70 | 0.16 | Pass |
| 47.00 | 0.09 | -0.70 | 0.70 | 0.16 | Pass |
| 48.00 | 0.21 | -0.70 | 0.70 | 0.16 | Pass |
| 49.00 | 0.15 | -0.70 | 0.70 | 0.16 | Pass |
| 50.00 | 0.10 | -0.70 | 0.70 | 0.16 | Pass |
| 51.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 55.00 | 0.12 | -0.70 | 0.70 | 0.16 | Pass |
| 60.00 | 0.08 | -0.70 | 0.70 | 0.16 | Pass |
| 65.00 | 0.05 | -0.70 | 0.70 | 0.16 | Pass |
| 70.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 75.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 80.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 85.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 90.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 95.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 100.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 105.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 110.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 115.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 120.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 125.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 130.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 135.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 136.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 137.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 138.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 139.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 140.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |

**-- End of measurement results--**

## 1/3 Octave Log Linearity: 1,000.00 Hz




1/3 octave level linearity at normal range with 0 dB gain performed according to IEC 61260:2001 4.6, ANSI S.11 (R2009) 4.6

| Level [dB] | Error [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 44.00 | 0.20 | -0.70 | 0.70 | 0.16 | Pass |
| 45.00 | 0.21 | -0.70 | 0.70 | 0.16 | Pass |
| 46.00 | 0.07 | -0.70 | 0.70 | 0.16 | Pass |
| 47.00 | 0.07 | -0.70 | 0.70 | 0.16 | Pass |
| 48.00 | 0.12 | -0.70 | 0.70 | 0.16 | Pass |
| 50.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 55.00 | 0.10 | -0.70 | 0.70 | 0.16 | Pass |
| 60.00 | 0.06 | -0.70 | 0.70 | 0.16 | Pass |
| 65.00 | 0.04 | -0.70 | 0.70 | 0.16 | Pass |
| 70.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 75.00 | 0.03 | -0.70 | 0.70 | 0.16 | Pass |
| 80.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 85.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 90.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 95.00 | 0.02 | -0.70 | 0.70 | 0.16 | Pass |
| 100.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 105.00 | 0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 110.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 115.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 120.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 125.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 130.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 135.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 136.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 137.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 138.00 | 0.00 | -0.70 | 0.70 | 0.15 | Pass |
| 139.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |
| 140.00 | -0.01 | -0.70 | 0.70 | 0.15 | Pass |

**-- End of measurement results--**

## Slow Detector

Toneburst response performed according to IEC 61672-3:2013 18 and ANSI S1.4-2014 Part 3: 18 for compliance to IEC 61672-1:2013 5.9, IEC 60651:2001 9.4.2, ANSI S1.4:1983 (R2006) 8.4.2 and ANSI S1.4-2014 Part 1: 5.9

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 137.00 | 200 | -7.54 | -7.92 | -6.92 | 0.15 | Pass |
| | 2 | -27.14 | -29.99 | -25.99 | 0.15 | Pass |

**-- End of measurement results--**

## Fast Detector

Toneburst response performed according to IEC 61672-3:2013 18 and ANSI S1.4-2014 Part 3: 18 for compliance to IEC 61672-1:2013 5.9, IEC 60651:2001 9.4.2, ANSI S1.4:1983 (R2006) 8.4.2 and ANSI S1.4-2014 Part 1: 5.9

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 137.00 | 200.00 | -1.07 | -1.48 | -0.48 | 0.15 | Pass |
| | 2.00 | -18.24 | -19.49 | -16.99 | 0.15 | Pass |
| | 0.25 | -27.47 | -29.99 | -25.99 | 0.15 | Pass |

**-- End of measurement results--**

## Sound Exposure Level

Toneburst response performed according to IEC 61672-3:2013 18 and ANSI S1.4-2014 Part 3: 18 for compliance to IEC 61672-1:2013 5.9, IEC 60651:2001 9.4.2, ANSI S1.4:1983 (R2006) 8.4.2 and ANSI S1.4-2014 Part 1: 5.9

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 137.00 | 200.00 | -7.01 | -7.49 | -6.49 | 0.15 | Pass |
| | 2.00 | -27.03 | -28.49 | -25.99 | 0.15 | Pass |
| | 0.25 | -36.15 | -39.02 | -35.02 | 0.15 | Pass |

**-- End of measurement results--**

## Peak C-weight

C-weighted peak sound level performed according to IEC 61672-3:2013 19 and ANSI S1.4-2014 Part 3: 19 for compliance to IEC 61672-1:2013 5.13 and ANSI S1.4-2014 Part 1: 5.13

| Level [dB] | Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 135.00 | 31.50 | 138.21 | 135.50 | 139.50 | 0.15 | Pass |
| 135.00 | 500.00 | 138.57 | 137.50 | 139.50 | 0.15 | Pass |
| 135.00 | 8,000.00 | 137.73 | 136.40 | 140.40 | 0.15 | Pass |
| 135.00, Negative | 500.00 | 137.17 | 136.40 | 138.40 | 0.15 | Pass |
| 135.00, Positive | 500.00 | 137.18 | 136.40 | 138.40 | 0.15 | Pass |

**-- End of measurement results--**

## Peak Z-weight

Z-weighted peak sound level performed according to IEC 60651:2001 9.4.4 and ANSI S1.4:1983 (R2006) 8.4.4

| Amplitude [dB] | Duration[µs] | | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|---|
| 136.00 | 100 | Negative Pulse | 136.35 | 134.00 | 138.00 | 0.15 | Pass |
| | 100 | Positive Pulse | 136.35 | 134.01 | 138.01 | 0.15 | Pass |
| 126.00 | 100 | Negative Pulse | 126.34 | 124.00 | 128.00 | 0.15 | Pass |
| | 100 | Positive Pulse | 126.35 | 124.00 | 128.00 | 0.15 | Pass |
| 116.00 | 100 | Negative Pulse | 116.35 | 114.00 | 118.00 | 0.15 | Pass |
| | 100 | Positive Pulse | 116.35 | 114.00 | 118.00 | 0.15 | Pass |
| 106.00 | 100 | Negative Pulse | 106.33 | 103.99 | 107.99 | 0.15 | Pass |
| | 100 | Positive Pulse | 106.34 | 104.01 | 108.01 | 0.15 | Pass |

**-- End of measurement results--**

## Overload Detector

Overload indication performed according to IEC 61672-3:2013 20 and ANSI S1.4-2014 Part 3: 20 for compliance to IEC 61672-1:2013 5.11, IEC 60804:2000 9.3.5, IEC 61252:2002 11, ANSI S1.4 (R2006) 5.8, and ANSI S1.4-2014 Part 1: 5.11, ANSI S1.25 (R2007) 7.6, ANSI S1.43 (R2007) 7

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| Positive | 141.10 | 140.00 | 142.00 | 0.15 | Pass |
| Negative | 141.00 | 140.00 | 142.00 | 0.15 | Pass |
| Difference | 0.10 | -1.50 | 1.50 | 0.16 | Pass |

**-- End of measurement results--**

## Peak Rise Time

Peak rise time performed according to IEC 60651:2001 9.4.4 and ANSI S1.4:1983 (R2006) 8.4.4

| Amplitude [dB] | Duration [µs] | | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|---|
| 139.00 | 40 | Negative Pulse | 138.49 | 137.00 | 139.00 | 0.15 | Pass |
| | | Positive Pulse | 138.49 | 137.00 | 139.00 | 0.15 | Pass |
| | 30 | Negative Pulse | 137.50 | 137.00 | 139.00 | 0.15 | Pass |
| | | Positive Pulse | 137.50 | 137.00 | 139.00 | 0.15 | Pass |

**-- End of measurement results--**

## Positive Pulse Crest Factor

### 200 µs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

| Amplitude [dB] | Crest Factor | Test Result [dB] | Limits [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 138.00 | 3 | OVLD | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | OVLD | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 128.00 | 3 | -0.13 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.13 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 118.00 | 3 | -0.13 | ± 0.50 | 0.16 ‡ | Pass |
| | 5 | -0.11 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | 0.01 | ± 1.50 | 0.15 ‡ | Pass |
| 108.00 | 3 | -0.14 | ± 0.50 | 0.18 ‡ | Pass |
| | 5 | -0.12 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.25 | ± 1.50 | 0.15 ‡ | Pass |

**-- End of measurement results--**

## Negative Pulse Crest Factor

### 200 µs pulse tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Crest Factor measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

| Amplitude [dB] | Crest Factor | Test Result [dB] | Limits [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 138.00 | 3 | OVLD | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | OVLD | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 128.00 | 3 | -0.13 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.12 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | OVLD | ± 1.50 | 0.15 ‡ | Pass |
| 118.00 | 3 | -0.13 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.13 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.14 | ± 1.50 | 0.15 ‡ | Pass |
| 108.00 | 3 | -0.15 | ± 0.50 | 0.15 ‡ | Pass |
| | 5 | -0.14 | ± 1.00 | 0.15 ‡ | Pass |
| | 10 | -0.25 | ± 1.50 | 0.15 ‡ | Pass |

**-- End of measurement results--**

## Tone Burst

### 2kHz tone burst tests at 2.0, 12.0, 22.0, 32.0 dB below Overload Limit

Tone burst response measured according to IEC 60651:2001 9.4.2 and ANSI S1.4:1983 (R2006) 8.4.2

| Amplitude [dB] | Crest Factor | Test Result [dB] | Limits [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 138.00 | 3 | OVLD | ± 0.50 | 0.15 | Pass |
| | 5 | OVLD | ± 1.00 | 0.15 | Pass |
| 128.00 | 3 | -0.07 | ± 0.50 | 0.17 | Pass |
| | 5 | -0.04 | ± 1.00 | 0.15 | Pass |
| 118.00 | 3 | -0.06 | ± 0.50 | 0.15 | Pass |
| | 5 | -0.02 | ± 1.00 | 0.15 | Pass |
| 108.00 | 3 | -0.06 | ± 0.50 | 0.15 | Pass |
| | 5 | -0.03 | ± 1.00 | 0.15 | Pass |

**-- End of measurement results--**

## Impulse Detector - Repeat

Impulse Detector measured according to IEC 60651:2001 9.4.3 and ANSI S1.4:1983 (R2006) 8.4.3

| Amplitude [dB] | Repitition Rate [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 140 | 100.00 | -2.82 | -3.71 | -1.71 | 0.15 | Pass |
| | 20.00 | -7.64 | -9.57 | -5.57 | 0.15 | Pass |
| | 2.00 | -8.87 | -10.76 | -6.76 | 0.15 | Pass |
| Step | 2.00 | 4.95 | 4.00 | 6.00 | 0.16 | Pass |

**-- End of measurement results--**

## Impulse Detector - Single

Impulse Detector measured according to IEC 60651:2001 9.4.3 and ANSI S1.4:1983 (R2006) 8.4.3

| Amplitude [dB] | Duration [ms] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|---|
| 140 | 20.00 | -3.72 | -5.11 | -2.11 | 0.15 | Pass |
| | 5.00 | -8.93 | -10.76 | -6.76 | 0.16 | Pass |
| | 2.00 | -12.57 | -14.55 | -10.55 | 0.16 | Pass |
| Step | 2.00 | 10.05 | 9.00 | 11.00 | 0.16 | Pass |

**-- End of measurement results--**

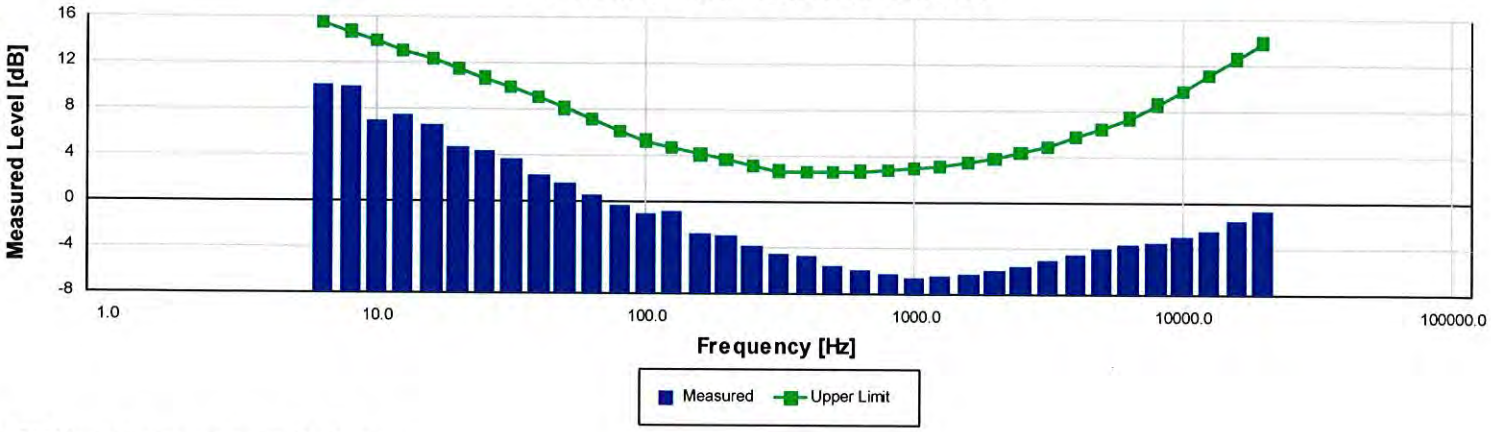
## Gain

Gain measured according to IEC 61672-3:2013 17.3 and 17.4 and ANSI S1.4-2014 Part 3: 17.3 and 17.4

| Measurement | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 0 dB Gain | 94.03 | 93.92 | 94.12 | 0.15 | Pass |
| 0 dB Gain, Linearity | 29.14 | 28.32 | 29.72 | 0.16 | Pass |
| 20 dB Gain | 94.04 | 93.92 | 94.12 | 0.15 | Pass |
| 20 dB Gain, Linearity | 24.17 | 23.32 | 24.72 | 0.16 | Pass |
| OBA Low Range | 94.02 | 93.92 | 94.12 | 0.15 | Pass |
| OBA Normal Range | 94.02 | 93.20 | 94.80 | 0.15 | Pass |

**-- End of measurement results--**

## 1/3-Octave Self-Generated Noise




The SLM is set to low range and 20 dB gain.

| Frequency [Hz] | Test Result [dB] | Upper limit [dB] | Result |
|---|---|---|---|
| 6.30 | 10.11 | 15.50 | Pass |
| 8.00 | 9.89 | 14.70 | Pass |
| 10.00 | 6.91 | 13.90 | Pass |
| 12.50 | 7.41 | 13.10 | Pass |
| 16.00 | 6.61 | 12.30 | Pass |
| 20.00 | 4.69 | 11.50 | Pass |
| 25.00 | 4.42 | 10.70 | Pass |
| 31.50 | 3.69 | 9.90 | Pass |
| 40.00 | 2.32 | 9.10 | Pass |
| 50.00 | 1.66 | 8.10 | Pass |
| 63.00 | 0.50 | 7.10 | Pass |
| 80.00 | -0.36 | 6.10 | Pass |
| 100.00 | -1.08 | 5.30 | Pass |
| 125.00 | -0.87 | 4.70 | Pass |
| 160.00 | -2.75 | 4.10 | Pass |
| 200.00 | -2.97 | 3.60 | Pass |
| 250.00 | -3.76 | 3.10 | Pass |
| 315.00 | -4.52 | 2.70 | Pass |
| 400.00 | -4.60 | 2.60 | Pass |
| 500.00 | -5.54 | 2.60 | Pass |
| 630.00 | -5.92 | 2.70 | Pass |
| 800.00 | -6.32 | 2.80 | Pass |
| 1,000.00 | -6.53 | 3.00 | Pass |
| 1,250.00 | -6.38 | 3.20 | Pass |
| 1,600.00 | -6.21 | 3.50 | Pass |
| 2,000.00 | -5.95 | 3.80 | Pass |
| 2,500.00 | -5.62 | 4.30 | Pass |
| 3,150.00 | -5.01 | 4.90 | Pass |
| 4,000.00 | -4.44 | 5.70 | Pass |
| 5,000.00 | -3.92 | 6.40 | Pass |
| 6,300.00 | -3.65 | 7.40 | Pass |
| 8,000.00 | -3.44 | 8.60 | Pass |
| 10,000.00 | -2.96 | 9.80 | Pass |
| 12,500.00 | -2.35 | 11.20 | Pass |
| 16,000.00 | -1.60 | 12.60 | Pass |
| 20,000.00 | -0.75 | 14.00 | Pass |

**-- End of measurement results--**

## Broadband Noise Floor

Self-generated noise measured according to IEC 61672-3:2013 11.2 and ANSI S1.4-2014 Part 3: 11.2

| Measurement | Test Result [dB] | Upper limit [dB] | Result |
|---|---|---|---|
| A-weight Noise Floor | 7.19 | 15.00 | Pass |
| C-weight Noise Floor | 11.97 | 17.30 | Pass |
| Z-weight Noise Floor | 20.40 | 24.50 | Pass |

**-- End of measurement results--**

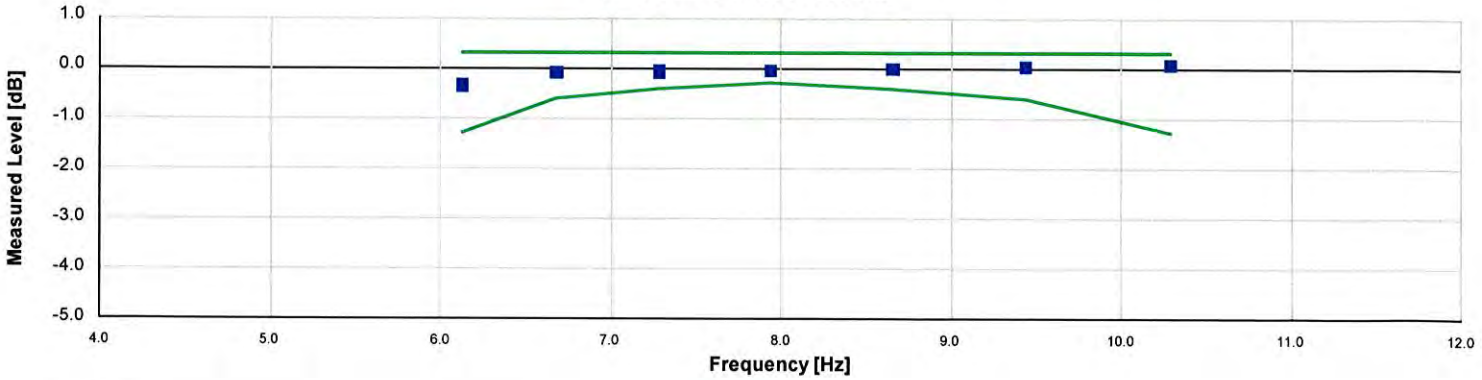
## Total Harmonic Distortion

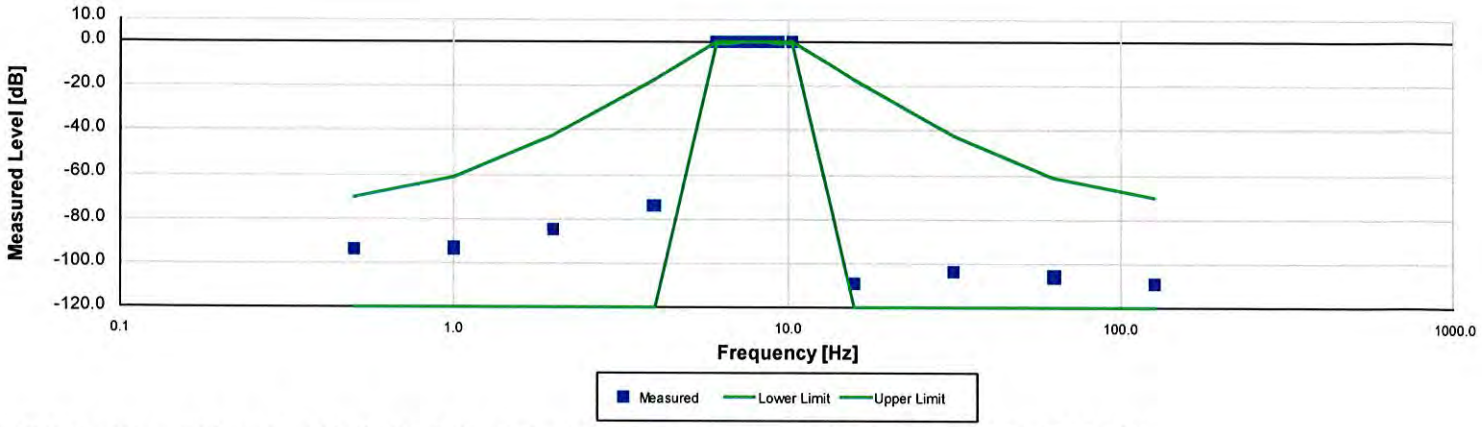
Measured using 1/3-Octave filters

| Measurement | Test Result [dB] | Lower Limit [dB] | Upper Limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 10 Hz Signal | 137.57 | 137.20 | 138.80 | 0.15 | Pass |
| THD | -69.74 | | -60.00 | 0.01 ‡ | Pass |
| THD+N | -64.66 | | -60.00 | 0.01 ‡ | Pass |

**-- End of measurement results--**

**1/1 Octave Filter: 8.0 Hz**



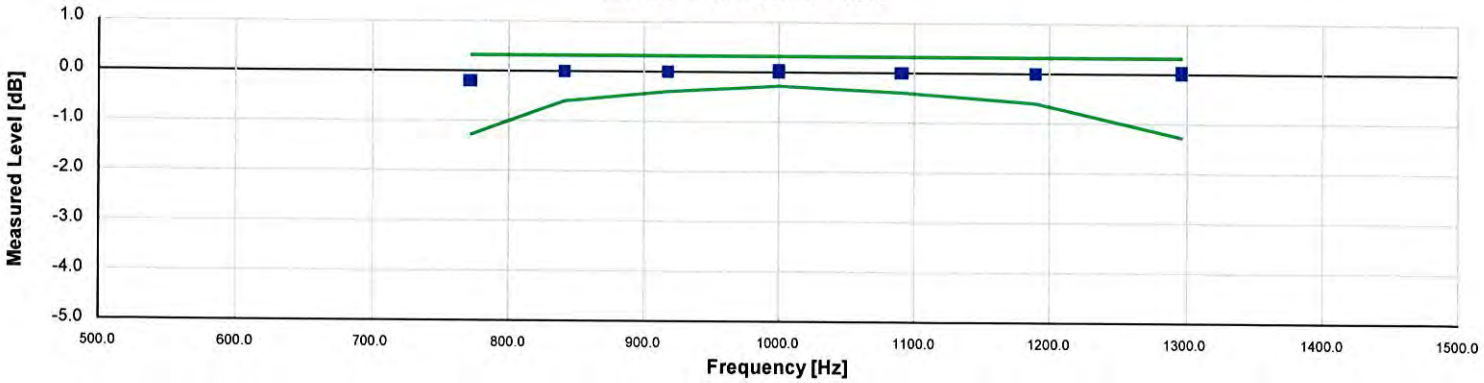



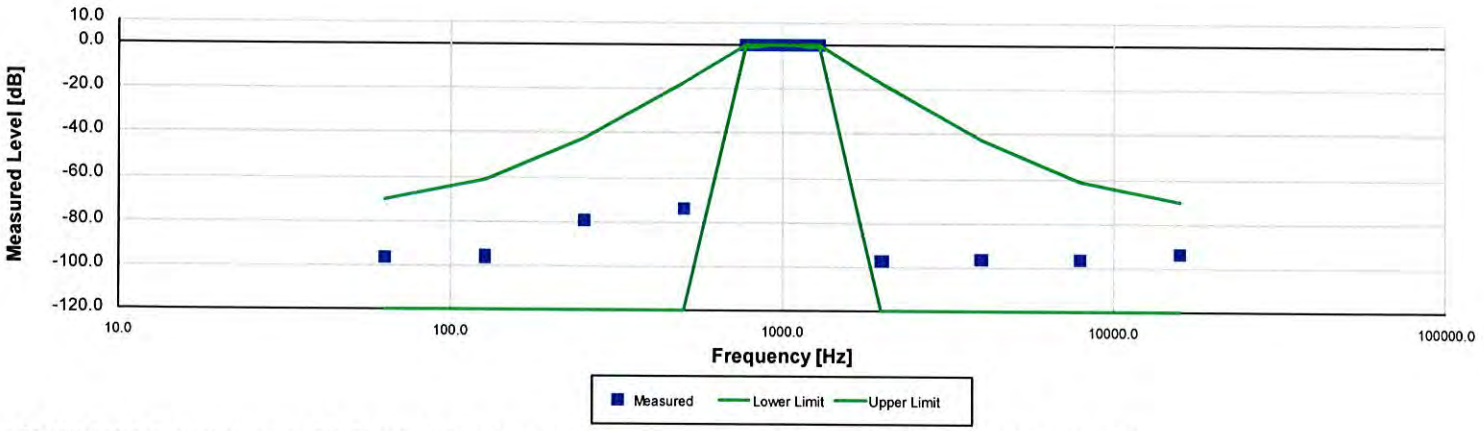

The SLM is set to normal range and 0 dB gain. Filter shape measured according to IEC 61260:2001 and ANSI S1.11:2004

| Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 0.50 | -93.78 | -inf | -70.00 | 2.40 | Pass |
| 1.00 | -93.13 | -inf | -61.00 | 2.20 | Pass |
| 2.00 | -84.39 | -inf | -42.00 | 0.27 | Pass |
| 3.98 | -73.58 | -inf | -17.50 | 0.26 | Pass |
| 6.13 | -0.35 | -1.30 | 0.30 | 0.15 | Pass |
| 6.68 | -0.11 | -0.60 | 0.30 | 0.15 | Pass |
| 7.29 | -0.08 | -0.40 | 0.30 | 0.15 | Pass |
| 7.94 | -0.05 | -0.30 | 0.30 | 0.15 | Pass |
| 8.66 | -0.03 | -0.40 | 0.30 | 0.15 | Pass |
| 9.44 | 0.01 | -0.60 | 0.30 | 0.15 | Pass |
| 10.29 | 0.05 | -1.30 | 0.30 | 0.15 | Pass |
| 15.85 | -109.12 | -inf | -17.50 | 1.30 | Pass |
| 31.62 | -103.57 | -inf | -42.00 | 1.70 | Pass |
| 63.10 | -105.78 | -inf | -61.00 | 1.20 | Pass |
| 125.89 | -108.98 | -inf | -70.00 | 1.80 | Pass |

**-- End of measurement results--**

**1/1 Octave Filter: 1 kHz**



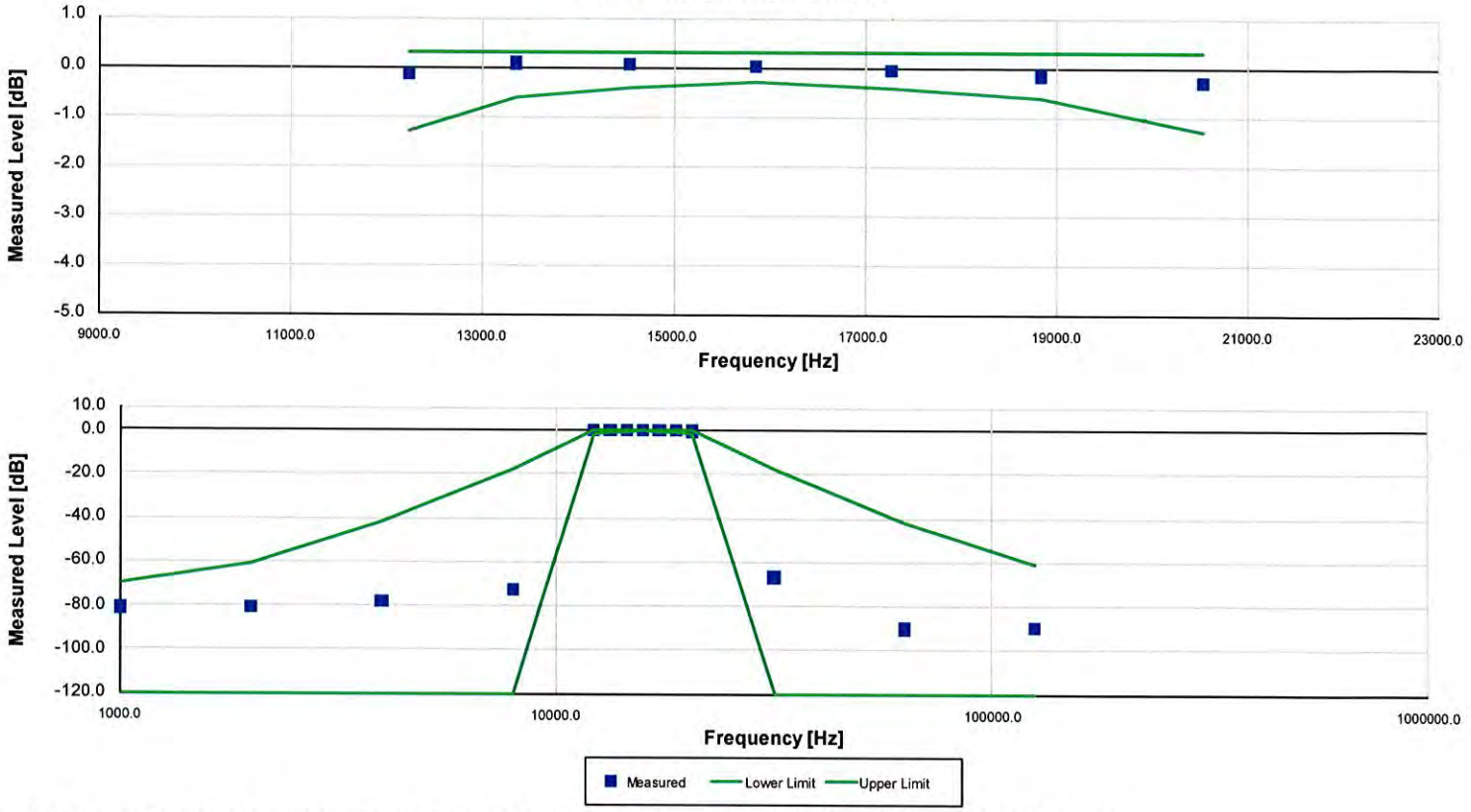




The SLM is set to normal range and 0 dB gain. Filter shape measured according to IEC 61260:2001 and ANSI S1.11:2004

| Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 63.10 | -96.56 | -inf | -70.00 | 0.30 | Pass |
| 125.89 | -95.92 | -inf | -61.00 | 0.35 | Pass |
| 251.19 | -79.27 | -inf | -42.00 | 0.22 | Pass |
| 501.19 | -73.92 | -inf | -17.50 | 0.15 | Pass |
| 771.79 | -0.22 | -1.30 | 0.30 | 0.15 | Pass |
| 841.40 | -0.02 | -0.60 | 0.30 | 0.15 | Pass |
| 917.28 | -0.01 | -0.40 | 0.30 | 0.15 | Pass |
| 1,000.00 | 0.00 | -0.30 | 0.30 | 0.15 | Pass |
| 1,090.18 | -0.03 | -0.40 | 0.30 | 0.15 | Pass |
| 1,188.50 | -0.02 | -0.60 | 0.30 | 0.15 | Pass |
| 1,295.69 | 0.00 | -1.30 | 0.30 | 0.15 | Pass |
| 1,995.26 | -97.04 | -inf | -17.50 | 0.29 | Pass |
| 3,981.07 | -96.45 | -inf | -42.00 | 0.29 | Pass |
| 7,943.28 | -96.40 | -inf | -61.00 | 0.33 | Pass |
| 15,848.93 | -93.50 | -inf | -70.00 | 0.26 | Pass |

**-- End of measurement results--**

**1/1 Octave Filter: 16 kHz**

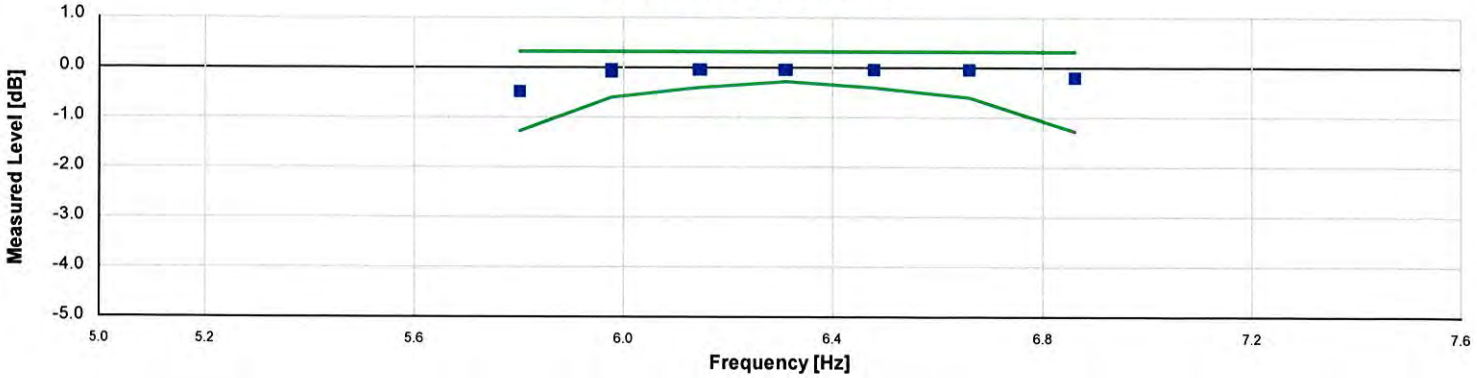


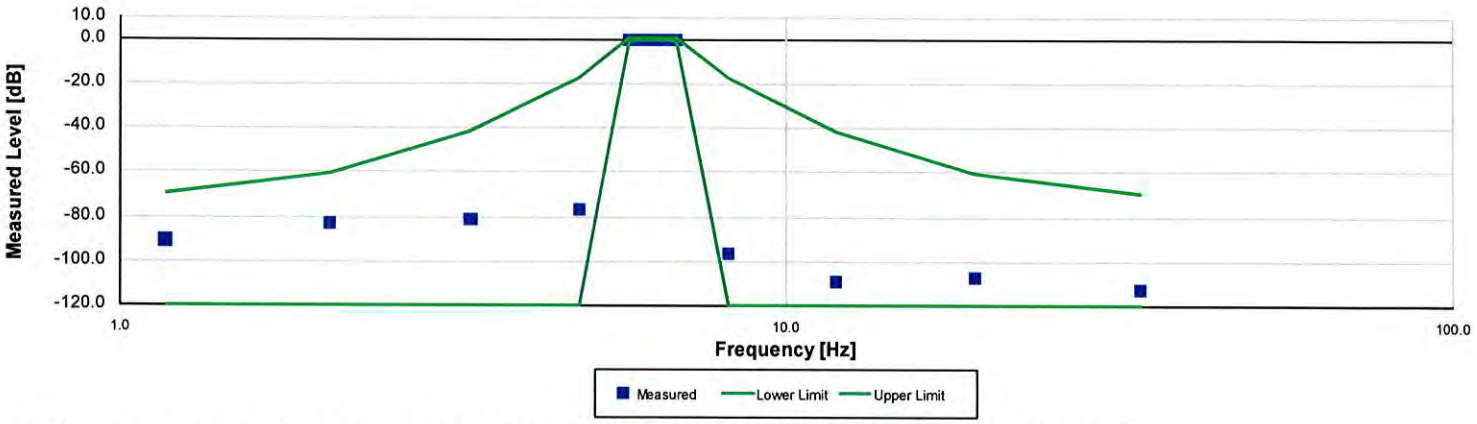

The SLM is set to normal range and 0 dB gain. Filter shape measured according to IEC 61260:2001 and ANSI S1.11:2004

| Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 1,000.00 | -81.23 | -inf | -70.00 | 0.16 | Pass |
| 1,995.26 | -80.90 | -inf | -61.00 | 0.15 | Pass |
| 3,981.07 | -78.15 | -inf | -42.00 | 0.15 | Pass |
| 7,943.28 | -73.04 | -inf | -17.50 | 0.15 | Pass |
| 12,232.07 | -0.12 | -1.30 | 0.30 | 0.15 | Pass |
| 13,335.21 | 0.09 | -0.60 | 0.30 | 0.15 | Pass |
| 14,537.84 | 0.05 | -0.40 | 0.30 | 0.15 | Pass |
| 15,848.93 | 0.01 | -0.30 | 0.30 | 0.15 | Pass |
| 17,278.26 | -0.05 | -0.40 | 0.30 | 0.15 | Pass |
| 18,836.49 | -0.16 | -0.60 | 0.30 | 0.15 | Pass |
| 20,535.25 | -0.28 | -1.30 | 0.30 | 0.15 | Pass |
| 31,622.78 | -66.85 | -inf | -17.50 | 0.15 | Pass |
| 63,095.73 | -90.37 | -inf | -42.00 | 0.15 | Pass |
| 125,892.54 | -89.96 | -inf | -61.00 | 0.15 | Pass |

**-- End of measurement results--**

**1/3 Octave Filter: 6.3 Hz**



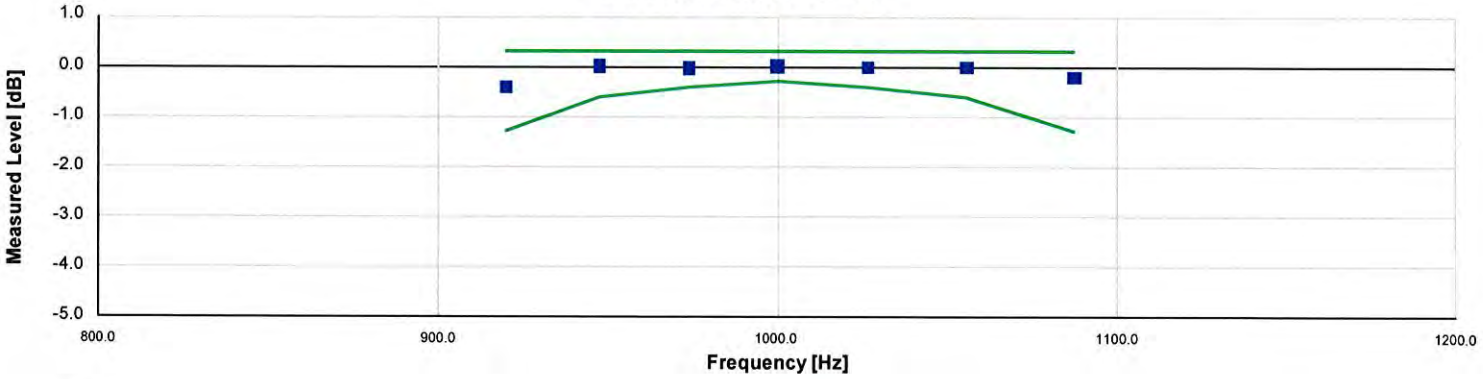



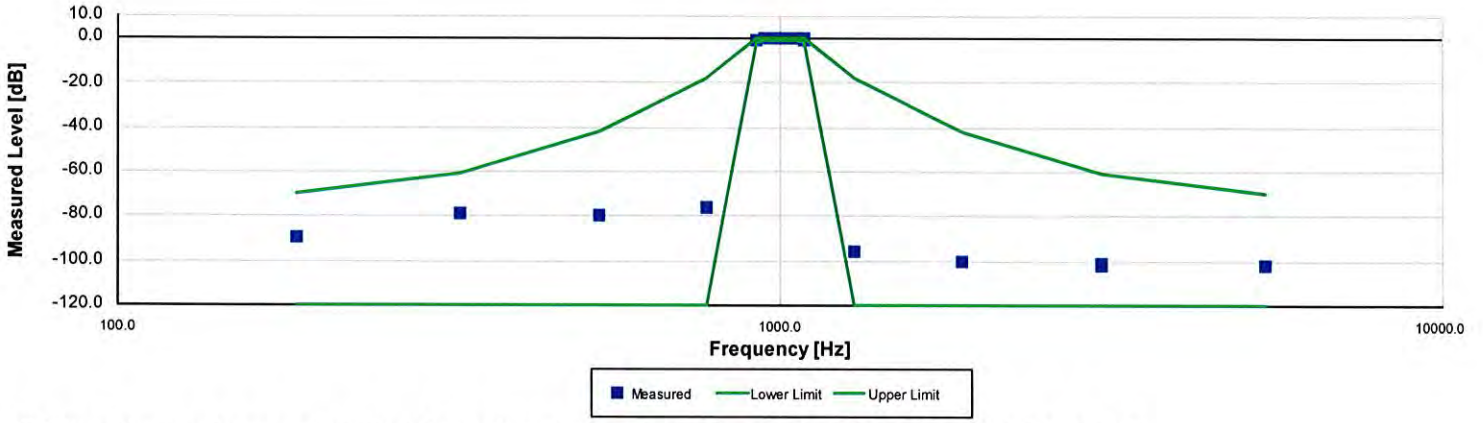

The SLM is set to normal range and 0 dB gain. Filter shape measured according to IEC 61260:2001 and ANSI S1.11:2004

| Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 1.17 | -90.86 | -inf | -70.00 | 0.38 | Pass |
| 2.07 | -82.84 | -inf | -61.00 | 0.16 | Pass |
| 3.35 | -81.63 | -inf | -42.00 | 0.15 | Pass |
| 4.87 | -76.67 | -inf | -17.50 | 0.15 | Pass |
| 5.80 | -0.48 | -1.30 | 0.30 | 0.15 | Pass |
| 5.98 | -0.07 | -0.60 | 0.30 | 0.15 | Pass |
| 6.15 | -0.07 | -0.40 | 0.30 | 0.15 | Pass |
| 6.31 | -0.06 | -0.30 | 0.30 | 0.15 | Pass |
| 6.48 | -0.06 | -0.40 | 0.30 | 0.15 | Pass |
| 6.66 | -0.05 | -0.60 | 0.30 | 0.15 | Pass |
| 6.86 | -0.23 | -1.30 | 0.30 | 0.15 | Pass |
| 8.17 | -96.73 | -inf | -17.50 | 0.36 | Pass |
| 11.87 | -109.57 | -inf | -42.00 | 1.70 | Pass |
| 19.27 | -107.15 | -inf | -61.00 | 2.50 | Pass |
| 34.02 | -113.22 | -inf | -70.00 | 2.10 | Pass |

**-- End of measurement results--**

**1/3 Octave Filter: 1 kHz**



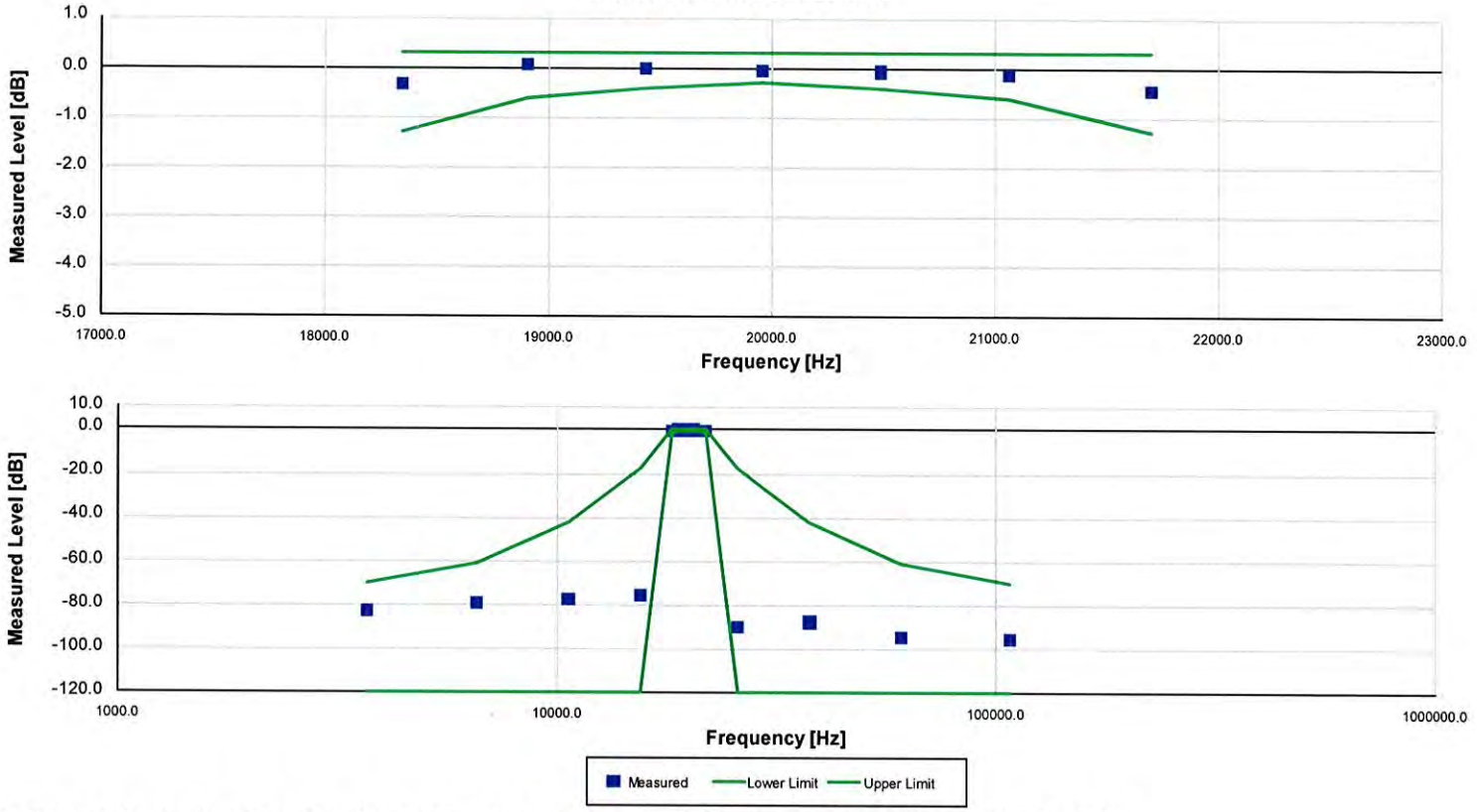




The SLM is set to normal range and 0 dB gain. Filter shape measured according to IEC 61260:2001 and ANSI S1.11:2004

| Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 185.46 | -89.99 | -inf | -70.00 | 0.20 | Pass |
| 327.48 | -78.98 | -inf | -61.00 | 0.17 | Pass |
| 531.43 | -79.71 | -inf | -42.00 | 0.28 | Pass |
| 772.57 | -76.19 | -inf | -17.50 | 0.15 | Pass |
| 919.58 | -0.40 | -1.30 | 0.30 | 0.15 | Pass |
| 947.19 | 0.00 | -0.60 | 0.30 | 0.15 | Pass |
| 974.02 | -0.04 | -0.40 | 0.30 | 0.15 | Pass |
| 1,000.00 | 0.00 | -0.30 | 0.30 | 0.15 | Pass |
| 1,026.67 | 0.00 | -0.40 | 0.30 | 0.15 | Pass |
| 1,055.75 | -0.02 | -0.60 | 0.30 | 0.15 | Pass |
| 1,087.46 | -0.23 | -1.30 | 0.30 | 0.15 | Pass |
| 1,294.37 | -96.08 | -inf | -17.50 | 0.28 | Pass |
| 1,881.73 | -100.63 | -inf | -42.00 | 0.42 | Pass |
| 3,053.65 | -101.78 | -inf | -61.00 | 0.46 | Pass |
| 5,391.95 | -102.11 | -inf | -70.00 | 0.42 | Pass |

**-- End of measurement results--**

**1/3 Octave Filter: 20 kHz**




The SLM is set to normal range and 0 dB gain. Filter shape measured according to IEC 61260:2001 and ANSI S1.11:2004

| Frequency [Hz] | Test Result [dB] | Lower limit [dB] | Upper limit [dB] | Expanded Uncertainty [dB] | Result |
|---|---|---|---|---|---|
| 3,700.45 | -82.70 | -inf | -70.00 | 0.16 | Pass |
| 6,534.02 | -79.22 | -inf | -61.00 | 0.16 | Pass |
| 10,603.35 | -76.88 | -inf | -42.00 | 0.17 | Pass |
| 15,414.88 | -75.71 | -inf | -17.50 | 0.15 | Pass |
| 18,347.97 | -0.33 | -1.30 | 0.30 | 0.15 | Pass |
| 18,898.93 | 0.06 | -0.60 | 0.30 | 0.15 | Pass |
| 19,434.23 | -0.01 | -0.40 | 0.30 | 0.15 | Pass |
| 19,952.62 | -0.06 | -0.30 | 0.30 | 0.15 | Pass |
| 20,484.85 | -0.08 | -0.40 | 0.30 | 0.15 | Pass |
| 21,065.07 | -0.13 | -0.60 | 0.30 | 0.15 | Pass |
| 21,697.62 | -0.44 | -1.30 | 0.30 | 0.15 | Pass |
| 25,826.16 | -89.60 | -inf | -17.50 | 0.17 | Pass |
| 37,545.40 | -87.52 | -inf | -42.00 | 0.16 | Pass |
| 60,928.37 | -94.47 | -inf | -61.00 | 0.17 | Pass |
| 107,583.52 | -95.24 | -inf | -70.00 | 0.17 | Pass |

**-- End of measurement results--**

**-- End of Report--**

Signatory: *Ron Harris*

LARSON DAVIS - A PCB PIEZOTRONICS DIV.
1681 West 820 North
Provo, UT 84601, United States
716-684-0001

ACCREDITED Cert. #3622.01

LARSON DAVIS
A PCB PIEZOTRONICS DIV.

**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.44515

| | |
|---|---|
| *Instrument:* | **Sound Level Meter** |
| *Model:* | **140** |
| *Manufacturer:* | **Norsonic** |
| *Serial number:* | **1403178** |
| *Tested with:* | **Microphone 40AN s/n 73449**<br>**Preamplifier 1209 s/n 12492** |
| *Type (class):* | **1** |
| *Customer:* | **Epsilon Associates, Inc.** |
| *Tel/Fax:* | **978-461-6235 / 978-897-0099** |

*Date Calibrated:* **3/4/2020** *Cal Due:* **3/4/2021**

| *Status:* | Received | Sent |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes X No
*Calibration service:* __ Basic X Standard
*Address:* **3 Mill & Main Place, Suite 250**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Sound Level Meters, Scantek Inc., Rev. 6/26/2015
SLM & Dosimeters – Acoustical Tests, Scantek Inc., Rev. 7/6/2011

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2019 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47022043 | Sep 16, 2019 | ACR Env./ A2LA | Sep 16, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Oct 24, 2019 | ACR Env./ A2LA | Oct 24, 2020 |
| PC Program 1019 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1251-Norsonic | Calibrator | 30878 | Oct 23, 2019 | Scantek, Inc./ NVLAP | Oct 23, 2020 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK).**

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.4 | 99.91 | 46.1 |

| **Calibrated by:** | Jeremy Gotwalt | **Authorized signatory:** | Steven E. Marshall |
|---|---|---|---|
| Signature | Jeremy Gotwalt | Signature | Steven E Marshall |
| Date | 3/4/2020 | Date | 3/4/2020 |

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Results summary:** Device complies with following clauses of mentioned specifications:

| CLAUSES[1] FROM IEC/ANSI STANDARDS REFERENCED IN PROCEDURES: | RESULT[2,3] | EXPANDED UNCERTAINTY (coverage factor 2) [dB] |
|---|---|---|
| INDICATION AT THE CALIBRATION CHECK FREQUENCY - IEC61672-3 ED.2 CLAUSE 10 | Passed | 0.15 |
| SELF-GENERATED NOISE - IEC 61672-3 ED.2 CLAUSE 11 | For Info | 0.3 |
| FREQUENCY WEIGHTINGS: A NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: C NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY WEIGHTINGS: Z NETWORK - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | 0.2 |
| FREQUENCY AND TIME WEIGHTINGS AT 1 KHZ IEC 61672-3 ED.2.0 CLAUSE 14 | Passed | 0.2 |
| LEVEL LINEARITY ON THE REFERENCE LEVEL RANGE - IEC 61672-3 ED.2 CLAUSE 16 | Passed | 0.25 |
| TONEBURST RESPONSE - IEC 61672-3 ED.2.0 CLAUSE 18 | Passed | 0.3 |
| PEAK C SOUND LEVEL - IEC 61672-3 ED.2.0 CLAUSE 19 | Passed | 0.35 |
| OVERLOAD INDICATION - IEC 61672-3 ED.2.0 CLAUSE 20 | Passed | 0.25 |
| HIGH LEVEL STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 21 | Passed | 0.1 |
| LONG TERM STABILITY TEST - IEC 61672-3 ED.2.0 CLAUSE 15 | Passed | 0.1 |
| FILTER TEST 1/1OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| FILTER TEST 1/3OCTAVE: RELATIVE ATTENUATION - IEC 61260, CLAUSE 4.4 & #5.3 | Passed | 0.25 |
| COMBINED ELECTRICAL AND ACOUSTICAL TEST - IEC 61672-3 ED.2.0 CLAUSE 13 | Passed | See test report |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 Parameters are certified at actual environmental conditions.

3 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Comments:** The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2, to demonstrate that the model of sound level meter fully conforms to the requirements in the IEC 61672-2, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1.

***Note:*** The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Tests made with the following attachments to the instrument:**

| |
|---|
| Microphone: GRAS 40AN s/n 73449 for acoustical test |
| Preamplifier: Norsonic 1209 s/n 12492 for all tests |
| Other: line adaptor ADP005 (18pF) for electrical tests |
| Accompanying acoustical calibrator: Norsonic 1251 s/n 32059 |
| Windscreen: Norsonic Nor1434 (ø 90mm) |

**Measured Data:** in Test Report # 44515 of 9+1 pages.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA

Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.44516

*Instrument:* **Microphone**
*Model:* **40AN**
*Manufacturer:* **GRAS**
*Serial number:* **73449**
*Composed of:*

*Date Calibrated:* **3/4/2020** *Cal Due:* **3/4/2021**

| *Status:* | Received | Sent |
|---|---|---|
| *In tolerance:* | X | X |
| *Out of tolerance:* | | |
| *See comments:* | | |

*Contains non-accredited tests:* __Yes _X_ No

*Customer:* **Epsilon Associates, Inc.**
*Tel/Fax:* **978-461-6235/978-897-0099**
*Address:* **3 Mill & Main Place, Suite 2S0**
**Maynard, MA 01754**

**Tested in accordance with the following procedures and standards:**
Calibration of Measurement Microphones, Scantek, Inc., Rev. 2/25/2015

**Instrumentation used for calibration:** N-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31061 | Jul 31, 2019 | Scantek, Inc./ NVLAP | Jul 31, 2020 |
| DS-360-SRS | Function Generator | 61646 | Sep 7, 2018 | ACR Env./ A2LA | Sep 7, 2020 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47022043 | Sep 16, 2019 | ACR Env./ A2LA | Sep 16, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Oct 24, 2019 | ACR Env./ A2LA | Oct 24, 2020 |
| PC Program 1017 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 1253-Norsonic | Calibrator | 28326 | Oct 23, 2019 | Scantek, Inc./ NVLAP | Oct 23, 2020 |
| 1203-Norsonic | Preamplifier | 21270 | Aug 5, 2019 | Scantek, Inc./ NVLAP | Aug 5, 2020 |
| 4180-Brüel&Kjær | Microphone | 2246115 | Oct 1, 2019 | DPLA / DANAK | Oct 24, 2021 |

**Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA)**

| Calibrated by: | Jeremy Gotwalt | Authorized signatory: | Steven E. Marshall |
|---|---|---|---|
| Signature | | Signature | |
| Date | 3/4/2020 | Date | 3/4/2020 |

Calibration Certificates or Test Reports shall not be reproduced, except in full, without written approval of the laboratory.
This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES / METHODS[1] FROM PROCEDURES | | MET[2,3] | NOT MET | NOT TESTED | MEASUREMENT EXPANDED UNCERTAINTY (coverage factor 2) |
|---|---|---|---|---|---|
| Open circuit sensitivity (insert voltage method, 250 Hz) | | X | | | See below |
| Frequency response | Actuator response | X | | | 63 – 200Hz: 0.3 dB<br>200 – 8000 Hz: 0.2 dB<br>8 – 10 kHz: 0.5 dB<br>10 – 20 kHz: 0.7 dB<br>20 – 50 kHz: 0.9 dB<br>50 – 100 kHz: 1.2 dB |
| | FF/Diffuse field responses | X | | | 63 – 200Hz: 0.3 dB<br>200 – 4000 Hz: 0.2 dB<br>4 – 10 kHz: 0.6 dB<br>10 – 20 kHz: 0.9 dB<br>20 – 50 kHz: 2.2 dB<br>50 – 100 kHz: 4.4 dB |
| | Scantek, Inc. acoustical method | | | X | 31.5 – 125 Hz: 0.16 dB<br>250, 1000 Hz: 0.12 dB<br>2 – 8 kHz: 0.8 dB<br>12.5 – 16 kHz: 2.4 dB |

[1] The results of this calibration apply only to the instrument type with serial number identified in this report.

[2] Results are normalized to the reference conditions.

[3] The tests marked with (*) are not covered by the current NVLAP accreditation.

*Note:* The free field/diffuse field characteristics were calculated based on the measured actuator response and adjustment coefficients as provided by the manufacturer. The uncertainties reported for these characteristics may include assumed uncertainty components for the adjustment coefficients.

**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 22.1 ± 0.1 | 99.92 ± 0.005 | 48.6 ± 0.1 |

**Main measured parameters:**

| Tone frequency (Hz) | Measured[4] /Nominal Open circuit sensitivity (dB re 1V/Pa) | Sensitivity (mV/Pa) |
|---|---|---|
| 250 | -25.26 ± 0.12/ -26.0 | 54.56 |

[4] The reported expanded uncertainty is calculated with a coverage factor k=2.00

**Tests made with following attachments to instrument and auxiliary devices:**

| |
|---|
| Protection grid mounted for sensitivity measurements |
| Actuator type: G.R.A.S. RA0014 |

**Measured Data:** Found on Microphone Test Report # 44516 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

**Scantek, Inc.**
CALIBRATION LABORATORY

ISO 17025: 2005, ANSI/NCSL Z540:1994 Part 1
ACCREDITED by NVLAP (an ILAC MRA signatory)

NVLAP®
CALIBRATION
NVLAP Lab Code: 200625-0

# Calibration Certificate No.44209

| | | | |
|---|---|---|---|
| *Instrument:* | **Acoustical Calibrator** | *Date Calibrated:* **1/15/2020** | *Cal Due:* **1/15/2021** |
| *Model:* | **1251** | *Status:* | **Received** / **Sent** |
| *Manufacturer:* | **Norsonic** | *In tolerance:* | **X** / **X** |
| *Serial number:* | **34880** | *Out of tolerance:* | |
| *Class (IEC 60942):* | **1** | *See comments:* | |
| *Barometer type:* | | *Contains non-accredited tests:* | **__Yes _X_ No** |
| *Barometer s/n:* | | | |
| *Customer:* | **Epsilon Associates, Inc.** | *Address:* | **3 Mill & Main Place, Suite 250, Maynard, MA 01754** |
| *Tel/Fax:* | **978-461-6235 / choyt@epsilonassociates.com** | | |

**Tested in accordance with the following procedures and standards:**
Calibration of Acoustical Calibrators, Scantek Inc., Rev. 10/1/2010

**Instrumentation used for calibration:** Nor-1504 Norsonic Test System:

| Instrument - Manufacturer | Description | S/N | Cal. Date | Traceability evidence Cal. Lab / Accreditation | Cal. Due |
|---|---|---|---|---|---|
| 483B-Norsonic | SME Cal Unit | 31052 | Oct 31, 2019 | Scantek, Inc./ NVLAP | Oct 31, 2020 |
| DS-360-SRS | Function Generator | 33584 | Oct 23, 2019 | ACR Env./ A2LA | Oct 23, 2021 |
| 34401A-Agilent Technologies | Digital Voltmeter | MY47011118 | Oct 22, 2019 | ACR Env. / A2LA | Oct 22, 2020 |
| HM30-Thommen | Meteo Station | 1040170/39633 | Oct 24, 2019 | ACR Env./ A2LA | Oct 24, 2020 |
| 140-Norsonic | Real Time Analyzer | 1406423 | Oct 31, 2019 | Scantek / NVLAP | Oct 31, 2020 |
| PC Program 1018 Norsonic | Calibration software | v.6.1T | Validated Nov 2014 | Scantek, Inc. | - |
| 4134-Brüel&Kjær | Microphone | 173368 | Oct 23, 2019 | Scantek, Inc. / NVLAP | Oct 23, 2020 |
| 1203-Norsonic | Preamplifier | 14059 | Feb 28, 2019 | Scantek, Inc./ NVLAP | Feb 28, 2020 |

**Instrumentation and test results are traceable to SI (International System of Units) through standards maintained by NIST (USA) and NPL (UK)**

| **Calibrated by:** | Lydon Dawkins | **Authorized signatory:** | William D. Gallagher |
|---|---|---|---|
| Signature | Lydon Dawkins | Signature | William D Gallagher |
| Date | 1/15/2020 | Date | 1/16/2020 |

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**Results summary:** Device was tested and complies with following clauses of mentioned specifications:

| CLAUSES[1] FROM STANDARDS REFERENCED IN PROCEDURES: | MET[2] | NOT MET | COMMENTS |
|---|---|---|---|
| ***Manufacturer specifications*** | | | |
| Manufacturer specifications: Sound pressure level | X | | |
| Manufacturer specifications: Frequency | X | | |
| Manufacturer specifications: Total harmonic distortion | X | | |
| ***Current standards*** | | | |
| ANSI S1.40:2006 B.3 / IEC 60942: 2003 B.2 - Preliminary inspection | X | | |
| ANSI S1.40:2006 B.4.4 / IEC 60942: 2003 B.3.4 - Sound pressure level | X | | |
| ANSI S1.40:2006 A.5.4 / IEC 60942: 2003 A.4.4 - Sound pressure level stability | - | - | |
| ANSI S1.40:2006 B.4.5 / IEC 60942: 2003 B.3.5 - Frequency | X | | |
| ANSI S1.40:2006 B.4.6 / IEC 60942: 2003 B.3.6 - Total harmonic distortion | X | | |

1 The results of this calibration apply only to the instrument type with serial number identified in this report.

2 The tests marked with (*) are not covered by the current NVLAP accreditation.

**Main measured parameters [3]:**

| Measured[4]/Acceptable[5] Tone frequency (Hz): | Measured[4]/Acceptable[5] Total Harmonic Distortion (%): | Measured [4]/Acceptable Level[5] (dB): |
|---|---|---|
| 1000.41 ± 1.0/1000.0 ± 10.0 | 0.19 ± 0.10/ < 3 | 114.14 ± 0.12/114.0 ± 0.4 |

3 The stated level is valid at reference conditions.

4 The above expanded uncertainties for frequency and distortion are calculated with a coverage factor k=2; for level k=2.00

5 Acceptable parameters values are from the current standards

**Environmental conditions:**

| Temperature (°C) | Barometric pressure (kPa) | Relative Humidity (%) |
|---|---|---|
| 23.3 ± 1.0 | 100.74 ± 0.000 | 55.3 ± 2.0 |

**Tests made with following attachments to instrument:**

| |
|---|
| Calibrator ½" Adaptor Type: 1443 |
| Other: |

**Adjustments:** Unit was not adjusted.
**Comments:** The instrument was tested and met all specifications found in the referenced procedures.

*Note:* The instrument was tested for the parameters listed in the table above, using the test methods described in the listed standards. All tests were performed around the reference conditions. The test results were compared with the manufacturer's or with the standard's specifications, whichever are larger.
Compliance with any standard cannot be claimed based solely on the periodic tests.

**Measured Data:** in Acoustical Calibrator Test Report # 44209 of one page.

**Place of Calibration: Scantek, Inc.**
6430 Dobbin Road, Suite C
Columbia, MD 21045 USA
Ph/Fax: 410-290-7726/ -9167
callab@scantekinc.com

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This Calibration Certificate or Test Reports shall not be used to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the federal government.

# Appendix C

## SUNY MesoNet Meteorological Data

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200827T000000 | 2020 | 08 | 27 | 00:00 | 65.5 | 99.6 | 0 |
| 20200827T000500 | 2020 | 08 | 27 | 00:05 | 65.5 | 99.6 | 0 |
| 20200827T001000 | 2020 | 08 | 27 | 00:10 | 65.5 | 99.6 | 0 |
| 20200827T001500 | 2020 | 08 | 27 | 00:15 | 65.4 | 99.6 | 0 |
| 20200827T002000 | 2020 | 08 | 27 | 00:20 | 65.4 | 99.6 | 0 |
| 20200827T002500 | 2020 | 08 | 27 | 00:25 | 65.5 | 99.5 | 0.005 |
| 20200827T003000 | 2020 | 08 | 27 | 00:30 | 65.6 | 99.5 | 0.007 |
| 20200827T003500 | 2020 | 08 | 27 | 00:35 | 65.7 | 99.6 | 0.03 |
| 20200827T004000 | 2020 | 08 | 27 | 00:40 | 65.8 | 99.6 | 0.006 |
| 20200827T004500 | 2020 | 08 | 27 | 00:45 | 65.8 | 99.6 | 0.021 |
| 20200827T005000 | 2020 | 08 | 27 | 00:50 | 65.6 | 99.7 | 0.022 |
| 20200827T005500 | 2020 | 08 | 27 | 00:55 | 65.6 | 99.7 | 0.015 |
| 20200827T010000 | 2020 | 08 | 27 | 01:00 | 65.5 | 99.6 | 0.01 |
| 20200827T010500 | 2020 | 08 | 27 | 01:05 | 65.3 | 99.5 | 0.001 |
| 20200827T011000 | 2020 | 08 | 27 | 01:10 | 65.3 | 99.5 | 0.005 |
| 20200827T011500 | 2020 | 08 | 27 | 01:15 | 65.3 | 99.4 | 0 |
| 20200827T012000 | 2020 | 08 | 27 | 01:20 | 65.2 | 99.4 | 0 |
| 20200827T012500 | 2020 | 08 | 27 | 01:25 | 65.2 | 99.3 | 0 |
| 20200827T013000 | 2020 | 08 | 27 | 01:30 | 65.1 | 99.3 | 0 |
| 20200827T013500 | 2020 | 08 | 27 | 01:35 | 65.1 | 99.3 | 0 |
| 20200827T014000 | 2020 | 08 | 27 | 01:40 | 65.3 | 99.3 | 0 |
| 20200827T014500 | 2020 | 08 | 27 | 01:45 | 65.3 | 99.2 | 0 |
| 20200827T015000 | 2020 | 08 | 27 | 01:50 | 65.3 | 99.2 | 0 |
| 20200827T015500 | 2020 | 08 | 27 | 01:55 | 65.3 | 99.2 | 0 |
| 20200827T020000 | 2020 | 08 | 27 | 02:00 | 65.4 | 99.2 | 0 |
| 20200827T020500 | 2020 | 08 | 27 | 02:05 | 65.6 | 99.2 | 0 |
| 20200827T021000 | 2020 | 08 | 27 | 02:10 | 65.7 | 99.2 | 0 |
| 20200827T021500 | 2020 | 08 | 27 | 02:15 | 65.7 | 99.2 | 0 |
| 20200827T022000 | 2020 | 08 | 27 | 02:20 | 65.9 | 99.2 | 0 |
| 20200827T022500 | 2020 | 08 | 27 | 02:25 | 66.1 | 99.2 | 0 |
| 20200827T023000 | 2020 | 08 | 27 | 02:30 | 66.2 | 99.3 | 0 |
| 20200827T023500 | 2020 | 08 | 27 | 02:35 | 66.3 | 99.3 | 0 |
| 20200827T024000 | 2020 | 08 | 27 | 02:40 | 66.3 | 99.4 | 0 |
| 20200827T024500 | 2020 | 08 | 27 | 02:45 | 66.4 | 99.5 | 0 |
| 20200827T025000 | 2020 | 08 | 27 | 02:50 | 66.4 | 99.7 | 0 |
| 20200827T025500 | 2020 | 08 | 27 | 02:55 | 66.3 | 99.9 | 0 |
| 20200827T030000 | 2020 | 08 | 27 | 03:00 | 66.3 | 100 | 0 |
| 20200827T030500 | 2020 | 08 | 27 | 03:05 | 66.4 | 100 | 0 |
| 20200827T031000 | 2020 | 08 | 27 | 03:10 | 66.5 | 100 | 0 |
| 20200827T031500 | 2020 | 08 | 27 | 03:15 | 66.5 | 99.9 | 0 |
| 20200827T032000 | 2020 | 08 | 27 | 03:20 | 66.5 | 99.8 | 0 |
| 20200827T032500 | 2020 | 08 | 27 | 03:25 | 66.4 | 99.9 | 0 |
| 20200827T033000 | 2020 | 08 | 27 | 03:30 | 66.4 | 99.9 | 0 |
| 20200827T033500 | 2020 | 08 | 27 | 03:35 | 66.6 | 99.7 | 0 |
| 20200827T034000 | 2020 | 08 | 27 | 03:40 | 66.7 | 98.6 | 0 |
| 20200827T034500 | 2020 | 08 | 27 | 03:45 | 66.9 | 97.4 | 0 |
| 20200827T035000 | 2020 | 08 | 27 | 03:50 | 66.8 | 97.1 | 0 |
| 20200827T035500 | 2020 | 08 | 27 | 03:55 | 66.6 | 97.8 | 0 |
| 20200827T040000 | 2020 | 08 | 27 | 04:00 | 66.6 | 97.9 | 0 |
| 20200827T040500 | 2020 | 08 | 27 | 04:05 | 66.6 | 97.5 | 0 |
| 20200827T041000 | 2020 | 08 | 27 | 04:10 | 66.5 | 98 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200827T041500 | 2020 | 08 | 27 | 04:15 | 66.4 | 98.3 | 0 |
| 20200827T042000 | 2020 | 08 | 27 | 04:20 | 66.4 | 98.5 | 0 |
| 20200827T042500 | 2020 | 08 | 27 | 04:25 | 66.5 | 97.8 | 0 |
| 20200827T043000 | 2020 | 08 | 27 | 04:30 | 66.5 | 97.2 | 0 |
| 20200827T043500 | 2020 | 08 | 27 | 04:35 | 66.4 | 97.5 | 0 |
| 20200827T044000 | 2020 | 08 | 27 | 04:40 | 66.5 | 97.5 | 0 |
| 20200827T044500 | 2020 | 08 | 27 | 04:45 | 66.5 | 97.5 | 0 |
| 20200827T045000 | 2020 | 08 | 27 | 04:50 | 66.2 | 98.1 | 0 |
| 20200827T045500 | 2020 | 08 | 27 | 04:55 | 66.1 | 98.7 | 0 |
| 20200827T050000 | 2020 | 08 | 27 | 05:00 | 66 | 99 | 0 |
| 20200827T050500 | 2020 | 08 | 27 | 05:05 | 65.9 | 99.5 | 0 |
| 20200827T051000 | 2020 | 08 | 27 | 05:10 | 65.8 | 99.9 | 0 |
| 20200827T051500 | 2020 | 08 | 27 | 05:15 | 65.7 | 100 | 0 |
| 20200827T052000 | 2020 | 08 | 27 | 05:20 | 65.5 | 99.9 | 0 |
| 20200827T052500 | 2020 | 08 | 27 | 05:25 | 65.4 | 99.8 | 0 |
| 20200827T053000 | 2020 | 08 | 27 | 05:30 | 65.9 | 99.8 | 0 |
| 20200827T053500 | 2020 | 08 | 27 | 05:35 | 65.8 | 99.7 | 0 |
| 20200827T054000 | 2020 | 08 | 27 | 05:40 | 65.8 | 99.9 | 0 |
| 20200827T054500 | 2020 | 08 | 27 | 05:45 | 65.8 | 99.9 | 0 |
| 20200827T055000 | 2020 | 08 | 27 | 05:50 | 65.7 | 99.9 | 0 |
| 20200827T055500 | 2020 | 08 | 27 | 05:55 | 65.7 | 99.8 | 0 |
| 20200827T060000 | 2020 | 08 | 27 | 06:00 | 65.8 | 99.8 | 0 |
| 20200827T060500 | 2020 | 08 | 27 | 06:05 | 65.7 | 99.8 | 0 |
| 20200827T061000 | 2020 | 08 | 27 | 06:10 | 65.8 | 99.8 | 0 |
| 20200827T061500 | 2020 | 08 | 27 | 06:15 | 65.9 | 99.7 | 0 |
| 20200827T062000 | 2020 | 08 | 27 | 06:20 | 66 | 99.7 | 0 |
| 20200827T062500 | 2020 | 08 | 27 | 06:25 | 66 | 99.7 | 0 |
| 20200827T063000 | 2020 | 08 | 27 | 06:30 | 66 | 99.7 | 0 |
| 20200827T063500 | 2020 | 08 | 27 | 06:35 | 66.1 | 99.8 | 0 |
| 20200827T064000 | 2020 | 08 | 27 | 06:40 | 66 | 99.8 | 0 |
| 20200827T064500 | 2020 | 08 | 27 | 06:45 | 66.1 | 99.8 | 0 |
| 20200827T065000 | 2020 | 08 | 27 | 06:50 | 65.9 | 99.7 | 0 |
| 20200827T065500 | 2020 | 08 | 27 | 06:55 | 65.9 | 99.7 | 0 |
| 20200827T070000 | 2020 | 08 | 27 | 07:00 | 65.9 | 99.7 | 0 |
| 20200827T070500 | 2020 | 08 | 27 | 07:05 | 67.6 | 99.8 | 0 |
| 20200827T071000 | 2020 | 08 | 27 | 07:10 | 70.2 | 99.4 | 0 |
| 20200827T071500 | 2020 | 08 | 27 | 07:15 | 71.7 | 99.6 | 0 |
| 20200827T072000 | 2020 | 08 | 27 | 07:20 | 72.4 | 99.7 | 0 |
| 20200827T072500 | 2020 | 08 | 27 | 07:25 | 72.8 | 98.1 | 0 |
| 20200827T073000 | 2020 | 08 | 27 | 07:30 | 73.2 | 97.2 | 0.004 |
| 20200827T073500 | 2020 | 08 | 27 | 07:35 | 73.5 | 96.5 | 0 |
| 20200827T074000 | 2020 | 08 | 27 | 07:40 | 73.5 | 96.9 | 0.001 |
| 20200827T074500 | 2020 | 08 | 27 | 07:45 | 73.6 | 96.5 | 0 |
| 20200827T075000 | 2020 | 08 | 27 | 07:50 | 73.9 | 95 | 0 |
| 20200827T075500 | 2020 | 08 | 27 | 07:55 | 74 | 94.9 | 0 |
| 20200827T080000 | 2020 | 08 | 27 | 08:00 | 74.1 | 94.7 | 0 |
| 20200827T080500 | 2020 | 08 | 27 | 08:05 | 74.2 | 94.4 | 0 |
| 20200827T081000 | 2020 | 08 | 27 | 08:10 | 74.3 | 94 | 0 |
| 20200827T081500 | 2020 | 08 | 27 | 08:15 | 74.3 | 94.2 | 0 |
| 20200827T082000 | 2020 | 08 | 27 | 08:20 | 74.5 | 93.3 | 0 |
| 20200827T082500 | 2020 | 08 | 27 | 08:25 | 74.7 | 93.3 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200827T083000 | 2020 | 08 | 27 | 08:30 | 74.8 | 92.4 | 0 |
| 20200827T083500 | 2020 | 08 | 27 | 08:35 | 75 | 92.2 | 0 |
| 20200827T084000 | 2020 | 08 | 27 | 08:40 | 75.2 | 91.2 | 0 |
| 20200827T084500 | 2020 | 08 | 27 | 08:45 | 75.5 | 89.8 | 0 |
| 20200827T085000 | 2020 | 08 | 27 | 08:50 | 75.6 | 89.3 | 0 |
| 20200827T085500 | 2020 | 08 | 27 | 08:55 | 75.7 | 89.4 | 0 |
| 20200827T090000 | 2020 | 08 | 27 | 09:00 | 75.8 | 88.8 | 0 |
| 20200827T090500 | 2020 | 08 | 27 | 09:05 | 75.9 | 88.4 | 0 |
| 20200827T091000 | 2020 | 08 | 27 | 09:10 | 76 | 88.2 | 0 |
| 20200827T091500 | 2020 | 08 | 27 | 09:15 | 76.1 | 87.9 | 0 |
| 20200827T092000 | 2020 | 08 | 27 | 09:20 | 76.2 | 88 | 0 |
| 20200827T092500 | 2020 | 08 | 27 | 09:25 | 76.5 | 87.3 | 0 |
| 20200827T093000 | 2020 | 08 | 27 | 09:30 | 76.7 | 86.1 | 0 |
| 20200827T093500 | 2020 | 08 | 27 | 09:35 | 76.5 | 86.6 | 0 |
| 20200827T094000 | 2020 | 08 | 27 | 09:40 | 76.7 | 86 | 0 |
| 20200827T094500 | 2020 | 08 | 27 | 09:45 | 76.9 | 85.3 | 0 |
| 20200827T095000 | 2020 | 08 | 27 | 09:50 | 77 | 84.5 | 0 |
| 20200827T095500 | 2020 | 08 | 27 | 09:55 | 77.9 | 82.3 | 0 |
| 20200827T100000 | 2020 | 08 | 27 | 10:00 | 78.3 | 79.7 | 0 |
| 20200827T100500 | 2020 | 08 | 27 | 10:05 | 78.1 | 80.5 | 0 |
| 20200827T101000 | 2020 | 08 | 27 | 10:10 | 77.6 | 82.4 | 0 |
| 20200827T101500 | 2020 | 08 | 27 | 10:15 | 77.8 | 81.3 | 0 |
| 20200827T102000 | 2020 | 08 | 27 | 10:20 | 77.6 | 81.6 | 0 |
| 20200827T102500 | 2020 | 08 | 27 | 10:25 | 77.7 | 82.8 | 0 |
| 20200827T103000 | 2020 | 08 | 27 | 10:30 | 78.1 | 82 | 0 |
| 20200827T103500 | 2020 | 08 | 27 | 10:35 | 78.3 | 81.7 | 0 |
| 20200827T104000 | 2020 | 08 | 27 | 10:40 | 78.5 | 80.8 | 0 |
| 20200827T104500 | 2020 | 08 | 27 | 10:45 | 79 | 80.1 | 0 |
| 20200827T105000 | 2020 | 08 | 27 | 10:50 | 79 | 79.2 | 0 |
| 20200827T105500 | 2020 | 08 | 27 | 10:55 | 79 | 79.6 | 0 |
| 20200827T110000 | 2020 | 08 | 27 | 11:00 | 78.6 | 80.7 | 0 |
| 20200827T110500 | 2020 | 08 | 27 | 11:05 | 78.5 | 81.6 | 0 |
| 20200827T111000 | 2020 | 08 | 27 | 11:10 | 78.7 | 80.4 | 0 |
| 20200827T111500 | 2020 | 08 | 27 | 11:15 | 79.1 | 80 | 0 |
| 20200827T112000 | 2020 | 08 | 27 | 11:20 | 79.2 | 79.5 | 0 |
| 20200827T112500 | 2020 | 08 | 27 | 11:25 | 79.5 | 79.7 | 0 |
| 20200827T113000 | 2020 | 08 | 27 | 11:30 | 79.8 | 78.5 | 0 |
| 20200827T113500 | 2020 | 08 | 27 | 11:35 | 79.5 | 79 | 0 |
| 20200827T114000 | 2020 | 08 | 27 | 11:40 | 79.8 | 77.9 | 0 |
| 20200827T114500 | 2020 | 08 | 27 | 11:45 | 79.3 | 78.4 | 0 |
| 20200827T115000 | 2020 | 08 | 27 | 11:50 | 79.4 | 79.2 | 0 |
| 20200827T115500 | 2020 | 08 | 27 | 11:55 | 80.1 | 77.1 | 0 |
| 20200827T120000 | 2020 | 08 | 27 | 12:00 | 80.6 | 77.1 | 0 |
| 20200827T120500 | 2020 | 08 | 27 | 12:05 | 80.5 | 76.3 | 0 |
| 20200827T121000 | 2020 | 08 | 27 | 12:10 | 80.1 | 77.2 | 0 |
| 20200827T121500 | 2020 | 08 | 27 | 12:15 | 80.5 | 77.2 | 0 |
| 20200827T122000 | 2020 | 08 | 27 | 12:20 | 80.8 | 75.9 | 0 |
| 20200827T122500 | 2020 | 08 | 27 | 12:25 | 81.8 | 76.1 | 0 |
| 20200827T123000 | 2020 | 08 | 27 | 12:30 | 81.6 | 74.4 | 0 |
| 20200827T123500 | 2020 | 08 | 27 | 12:35 | 81.1 | 75.9 | 0 |
| 20200827T124000 | 2020 | 08 | 27 | 12:40 | 81 | 76.2 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200827T124500 | 2020 | 08 | 27 | 12:45 | 80.8 | 76.7 | 0 |
| 20200827T125000 | 2020 | 08 | 27 | 12:50 | 80.7 | 76.7 | 0 |
| 20200827T125500 | 2020 | 08 | 27 | 12:55 | 80.7 | 76.5 | 0 |
| 20200827T130000 | 2020 | 08 | 27 | 13:00 | 80.8 | 76.3 | 0 |
| 20200827T130500 | 2020 | 08 | 27 | 13:05 | 81.3 | 76.7 | 0 |
| 20200827T131000 | 2020 | 08 | 27 | 13:10 | 81.6 | 75.2 | 0 |
| 20200827T131500 | 2020 | 08 | 27 | 13:15 | 81.9 | 74.4 | 0 |
| 20200827T132000 | 2020 | 08 | 27 | 13:20 | 81.8 | 74.5 | 0 |
| 20200827T132500 | 2020 | 08 | 27 | 13:25 | 82 | 73.2 | 0 |
| 20200827T133000 | 2020 | 08 | 27 | 13:30 | 81.9 | 74.2 | 0 |
| 20200827T133500 | 2020 | 08 | 27 | 13:35 | 82.2 | 74.1 | 0 |
| 20200827T134000 | 2020 | 08 | 27 | 13:40 | 81 | 75.5 | 0 |
| 20200827T134500 | 2020 | 08 | 27 | 13:45 | 80.3 | 77.5 | 0 |
| 20200827T135000 | 2020 | 08 | 27 | 13:50 | 80.6 | 78.6 | 0 |
| 20200827T135500 | 2020 | 08 | 27 | 13:55 | 80.6 | 77.3 | 0 |
| 20200827T140000 | 2020 | 08 | 27 | 14:00 | 79.8 | 79.7 | 0 |
| 20200827T140500 | 2020 | 08 | 27 | 14:05 | 79.2 | 81 | 0 |
| 20200827T141000 | 2020 | 08 | 27 | 14:10 | 78.9 | 83 | 0 |
| 20200827T141500 | 2020 | 08 | 27 | 14:15 | 78.5 | 83.5 | 0 |
| 20200827T142000 | 2020 | 08 | 27 | 14:20 | 78.2 | 85.1 | 0 |
| 20200827T142500 | 2020 | 08 | 27 | 14:25 | 78 | 85.4 | 0 |
| 20200827T143000 | 2020 | 08 | 27 | 14:30 | 77.3 | 84.6 | 0 |
| 20200827T143500 | 2020 | 08 | 27 | 14:35 | 76.3 | 91.3 | 0.022 |
| 20200827T144000 | 2020 | 08 | 27 | 14:40 | 75 | 97.1 | 0.144 |
| 20200827T144500 | 2020 | 08 | 27 | 14:45 | 71.7 | 94.7 | 0.419 |
| 20200827T145000 | 2020 | 08 | 27 | 14:50 | 70.7 | 98.5 | 0.145 |
| 20200827T145500 | 2020 | 08 | 27 | 14:55 | 71.3 | 95.4 | 0.003 |
| 20200827T150000 | 2020 | 08 | 27 | 15:00 | 72.2 | 95.5 | 0 |
| 20200827T150500 | 2020 | 08 | 27 | 15:05 | 72 | 96.2 | 0 |
| 20200827T151000 | 2020 | 08 | 27 | 15:10 | 72.5 | 98.3 | 0.27 |
| 20200827T151500 | 2020 | 08 | 27 | 15:15 | 72.6 | 99.2 | 0.097 |
| 20200827T152000 | 2020 | 08 | 27 | 15:20 | 73.7 | 99.9 | 0.081 |
| 20200827T152500 | 2020 | 08 | 27 | 15:25 | 73.4 | 96.7 | 0.169 |
| 20200827T153000 | 2020 | 08 | 27 | 15:30 | 73.4 | 98.1 | 0.004 |
| 20200827T153500 | 2020 | 08 | 27 | 15:35 | 73 | 99.1 | 0 |
| 20200827T154000 | 2020 | 08 | 27 | 15:40 | 73.2 | 99.4 | 0 |
| 20200827T154500 | 2020 | 08 | 27 | 15:45 | 73.4 | 97.8 | 0 |
| 20200827T155000 | 2020 | 08 | 27 | 15:50 | 73 | 98.5 | 0 |
| 20200827T155500 | 2020 | 08 | 27 | 15:55 | 72.5 | 99.2 | 0.1 |
| 20200827T160000 | 2020 | 08 | 27 | 16:00 | 72.9 | 98.9 | 0 |
| 20200827T160500 | 2020 | 08 | 27 | 16:05 | 73.2 | 98.6 | 0 |
| 20200827T161000 | 2020 | 08 | 27 | 16:10 | 73.2 | 99 | 0 |
| 20200827T161500 | 2020 | 08 | 27 | 16:15 | 73.1 | 98.3 | 0 |
| 20200827T162000 | 2020 | 08 | 27 | 16:20 | 73.3 | 96.5 | 0 |
| 20200827T162500 | 2020 | 08 | 27 | 16:25 | 73.5 | 96.9 | 0 |
| 20200827T163000 | 2020 | 08 | 27 | 16:30 | 74.7 | 95.5 | 0 |
| 20200827T163500 | 2020 | 08 | 27 | 16:35 | 75.2 | 92.8 | 0 |
| 20200827T164000 | 2020 | 08 | 27 | 16:40 | 75.4 | 92.6 | 0 |
| 20200827T164500 | 2020 | 08 | 27 | 16:45 | 75.2 | 94.1 | 0 |
| 20200827T165000 | 2020 | 08 | 27 | 16:50 | 75.1 | 97.3 | 0 |
| 20200827T165500 | 2020 | 08 | 27 | 16:55 | 75.1 | 98.9 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200827T170000 | 2020 | 08 | 27 | 17:00 | 75.3 | 99.4 | 0 |
| 20200827T170500 | 2020 | 08 | 27 | 17:05 | 75.6 | 98.9 | 0 |
| 20200827T171000 | 2020 | 08 | 27 | 17:10 | 75.5 | 96.1 | 0 |
| 20200827T171500 | 2020 | 08 | 27 | 17:15 | 74.4 | 86 | 0 |
| 20200827T172000 | 2020 | 08 | 27 | 17:20 | 73.2 | 85.5 | 0 |
| 20200827T172500 | 2020 | 08 | 27 | 17:25 | 72.6 | 87.8 | 0 |
| 20200827T173000 | 2020 | 08 | 27 | 17:30 | 72.4 | 87.9 | 0 |
| 20200827T173500 | 2020 | 08 | 27 | 17:35 | 72.2 | 86.7 | 0 |
| 20200827T174000 | 2020 | 08 | 27 | 17:40 | 71.9 | 86.1 | 0 |
| 20200827T174500 | 2020 | 08 | 27 | 17:45 | 71.6 | 87 | 0 |
| 20200827T175000 | 2020 | 08 | 27 | 17:50 | 71.5 | 87.3 | 0 |
| 20200827T175500 | 2020 | 08 | 27 | 17:55 | 71.3 | 88.6 | 0 |
| 20200827T180000 | 2020 | 08 | 27 | 18:00 | 71.2 | 89.7 | 0 |
| 20200827T180500 | 2020 | 08 | 27 | 18:05 | 71 | 91.5 | 0 |
| 20200827T181000 | 2020 | 08 | 27 | 18:10 | 71 | 92.3 | 0 |
| 20200827T181500 | 2020 | 08 | 27 | 18:15 | 71 | 93.5 | 0 |
| 20200827T182000 | 2020 | 08 | 27 | 18:20 | 71 | 93.8 | 0 |
| 20200827T182500 | 2020 | 08 | 27 | 18:25 | 71.1 | 93.6 | 0 |
| 20200827T183000 | 2020 | 08 | 27 | 18:30 | 71.5 | 92.7 | 0 |
| 20200827T183500 | 2020 | 08 | 27 | 18:35 | 71.7 | 92.3 | 0 |
| 20200827T184000 | 2020 | 08 | 27 | 18:40 | 71.7 | 92.6 | 0 |
| 20200827T184500 | 2020 | 08 | 27 | 18:45 | 71.6 | 93.2 | 0 |
| 20200827T185000 | 2020 | 08 | 27 | 18:50 | 71.6 | 93.8 | 0 |
| 20200827T185500 | 2020 | 08 | 27 | 18:55 | 71.6 | 93.4 | 0 |
| 20200827T190000 | 2020 | 08 | 27 | 19:00 | 71.5 | 93.8 | 0 |
| 20200827T190500 | 2020 | 08 | 27 | 19:05 | 71.4 | 94 | 0 |
| 20200827T191000 | 2020 | 08 | 27 | 19:10 | 71.4 | 94.2 | 0 |
| 20200827T191500 | 2020 | 08 | 27 | 19:15 | 71.5 | 93.8 | 0 |
| 20200827T192000 | 2020 | 08 | 27 | 19:20 | 71.4 | 93.8 | 0 |
| 20200827T192500 | 2020 | 08 | 27 | 19:25 | 71.4 | 93.8 | 0 |
| 20200827T193000 | 2020 | 08 | 27 | 19:30 | 71.3 | 93.6 | 0 |
| 20200827T193500 | 2020 | 08 | 27 | 19:35 | 71.2 | 93.9 | 0 |
| 20200827T194000 | 2020 | 08 | 27 | 19:40 | 71.1 | 94 | 0 |
| 20200827T194500 | 2020 | 08 | 27 | 19:45 | 70.9 | 94.5 | 0 |
| 20200827T195000 | 2020 | 08 | 27 | 19:50 | 70.9 | 94.5 | 0 |
| 20200827T195500 | 2020 | 08 | 27 | 19:55 | 70.7 | 95 | 0 |
| 20200827T200000 | 2020 | 08 | 27 | 20:00 | 70.7 | 95.2 | 0 |
| 20200827T200500 | 2020 | 08 | 27 | 20:05 | 70.6 | 95.2 | 0 |
| 20200827T201000 | 2020 | 08 | 27 | 20:10 | 70.5 | 95.4 | 0 |
| 20200827T201500 | 2020 | 08 | 27 | 20:15 | 70.4 | 95.3 | 0 |
| 20200827T202000 | 2020 | 08 | 27 | 20:20 | 70.2 | 96.2 | 0 |
| 20200827T202500 | 2020 | 08 | 27 | 20:25 | 70 | 97 | 0 |
| 20200827T203000 | 2020 | 08 | 27 | 20:30 | 69.9 | 97.1 | 0 |
| 20200827T203500 | 2020 | 08 | 27 | 20:35 | 69.9 | 97 | 0 |
| 20200827T204000 | 2020 | 08 | 27 | 20:40 | 69.9 | 96.7 | 0 |
| 20200827T204500 | 2020 | 08 | 27 | 20:45 | 69.7 | 97 | 0 |
| 20200827T205000 | 2020 | 08 | 27 | 20:50 | 69.8 | 96.6 | 0 |
| 20200827T205500 | 2020 | 08 | 27 | 20:55 | 69.8 | 96.3 | 0 |
| 20200827T210000 | 2020 | 08 | 27 | 21:00 | 69.7 | 96.3 | 0 |
| 20200827T210500 | 2020 | 08 | 27 | 21:05 | 69.7 | 96.5 | 0 |
| 20200827T211000 | 2020 | 08 | 27 | 21:10 | 69.6 | 96.8 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200827T211500 | 2020 | 08 | 27 | 21:15 | 69.6 | 96.7 | 0 |
| 20200827T212000 | 2020 | 08 | 27 | 21:20 | 69.6 | 96.8 | 0 |
| 20200827T212500 | 2020 | 08 | 27 | 21:25 | 69.5 | 96.9 | 0 |
| 20200827T213000 | 2020 | 08 | 27 | 21:30 | 69.4 | 97.4 | 0 |
| 20200827T213500 | 2020 | 08 | 27 | 21:35 | 69.4 | 97.3 | 0 |
| 20200827T214000 | 2020 | 08 | 27 | 21:40 | 69.1 | 97.8 | 0 |
| 20200827T214500 | 2020 | 08 | 27 | 21:45 | 69.1 | 98.1 | 0 |
| 20200827T215000 | 2020 | 08 | 27 | 21:50 | 69.1 | 98.3 | 0 |
| 20200827T215500 | 2020 | 08 | 27 | 21:55 | 69.1 | 98.5 | 0 |
| 20200827T220000 | 2020 | 08 | 27 | 22:00 | 69.1 | 98.7 | 0 |
| 20200827T220500 | 2020 | 08 | 27 | 22:05 | 69.1 | 98.8 | 0 |
| 20200827T221000 | 2020 | 08 | 27 | 22:10 | 69 | 98.7 | 0 |
| 20200827T221500 | 2020 | 08 | 27 | 22:15 | 69.2 | 98.7 | 0 |
| 20200827T222000 | 2020 | 08 | 27 | 22:20 | 69.1 | 98.7 | 0 |
| 20200827T222500 | 2020 | 08 | 27 | 22:25 | 69.1 | 98.7 | 0 |
| 20200827T223000 | 2020 | 08 | 27 | 22:30 | 69.2 | 98.8 | 0 |
| 20200827T223500 | 2020 | 08 | 27 | 22:35 | 69.2 | 99 | 0 |
| 20200827T224000 | 2020 | 08 | 27 | 22:40 | 69.2 | 99 | 0 |
| 20200827T224500 | 2020 | 08 | 27 | 22:45 | 69.3 | 99.2 | 0 |
| 20200827T225000 | 2020 | 08 | 27 | 22:50 | 69.3 | 99.2 | 0 |
| 20200827T225500 | 2020 | 08 | 27 | 22:55 | 69.3 | 99.3 | 0 |
| 20200827T230000 | 2020 | 08 | 27 | 23:00 | 69.3 | 99.6 | 0 |
| 20200827T230500 | 2020 | 08 | 27 | 23:05 | 69.2 | 99.6 | 0 |
| 20200827T231000 | 2020 | 08 | 27 | 23:10 | 69.3 | 99.6 | 0 |
| 20200827T231500 | 2020 | 08 | 27 | 23:15 | 69.3 | 99.6 | 0 |
| 20200827T232000 | 2020 | 08 | 27 | 23:20 | 69.4 | 99.5 | 0 |
| 20200827T232500 | 2020 | 08 | 27 | 23:25 | 69.4 | 99.4 | 0 |
| 20200827T233000 | 2020 | 08 | 27 | 23:30 | 69.1 | 99.2 | 0 |
| 20200827T233500 | 2020 | 08 | 27 | 23:35 | 68.9 | 99.6 | 0 |
| 20200827T234000 | 2020 | 08 | 27 | 23:40 | 68.8 | 99.6 | 0 |
| 20200827T234500 | 2020 | 08 | 27 | 23:45 | 68.8 | 99.8 | 0 |
| 20200827T235000 | 2020 | 08 | 27 | 23:50 | 69 | 100 | 0 |
| 20200827T235500 | 2020 | 08 | 27 | 23:55 | 68.8 | 99.8 | 0 |
| 20200828T000000 | 2020 | 08 | 28 | 00:00 | 68.6 | 100 | 0 |
| 20200828T000500 | 2020 | 08 | 28 | 00:05 | 68.7 | 100 | 0 |
| 20200828T001000 | 2020 | 08 | 28 | 00:10 | 68.9 | 99.9 | 0 |
| 20200828T001500 | 2020 | 08 | 28 | 00:15 | 68.9 | 99.7 | 0 |
| 20200828T002000 | 2020 | 08 | 28 | 00:20 | 68.8 | 99.6 | 0 |
| 20200828T002500 | 2020 | 08 | 28 | 00:25 | 68.7 | 99.6 | 0 |
| 20200828T003000 | 2020 | 08 | 28 | 00:30 | 68.7 | 99.7 | 0 |
| 20200828T003500 | 2020 | 08 | 28 | 00:35 | 68.5 | 99.7 | 0 |
| 20200828T004000 | 2020 | 08 | 28 | 00:40 | 68.5 | 99.8 | 0 |
| 20200828T004500 | 2020 | 08 | 28 | 00:45 | 68.5 | 99.8 | 0 |
| 20200828T005000 | 2020 | 08 | 28 | 00:50 | 68.5 | 99.8 | 0 |
| 20200828T005500 | 2020 | 08 | 28 | 00:55 | 68.4 | 99.6 | 0 |
| 20200828T010000 | 2020 | 08 | 28 | 01:00 | 68.3 | 99.4 | 0 |
| 20200828T010500 | 2020 | 08 | 28 | 01:05 | 68.4 | 98.9 | 0 |
| 20200828T011000 | 2020 | 08 | 28 | 01:10 | 68.2 | 99 | 0 |
| 20200828T011500 | 2020 | 08 | 28 | 01:15 | 68.1 | 98.7 | 0 |
| 20200828T012000 | 2020 | 08 | 28 | 01:20 | 68 | 98.4 | 0 |
| 20200828T012500 | 2020 | 08 | 28 | 01:25 | 67.8 | 98.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200828T013000 | 2020 | 08 | 28 | 01:30 | 67.5 | 97.9 | 0 |
| 20200828T013500 | 2020 | 08 | 28 | 01:35 | 67.3 | 98.3 | 0 |
| 20200828T014000 | 2020 | 08 | 28 | 01:40 | 67.1 | 98.5 | 0 |
| 20200828T014500 | 2020 | 08 | 28 | 01:45 | 67.1 | 98.7 | 0 |
| 20200828T015000 | 2020 | 08 | 28 | 01:50 | 67.1 | 98.7 | 0 |
| 20200828T015500 | 2020 | 08 | 28 | 01:55 | 66.9 | 98.9 | 0 |
| 20200828T020000 | 2020 | 08 | 28 | 02:00 | 67 | 98.8 | 0 |
| 20200828T020500 | 2020 | 08 | 28 | 02:05 | 66.8 | 98.8 | 0 |
| 20200828T021000 | 2020 | 08 | 28 | 02:10 | 66.7 | 99.1 | 0 |
| 20200828T021500 | 2020 | 08 | 28 | 02:15 | 66.5 | 99.3 | 0 |
| 20200828T022000 | 2020 | 08 | 28 | 02:20 | 66.5 | 99.6 | 0 |
| 20200828T022500 | 2020 | 08 | 28 | 02:25 | 66.4 | 99.6 | 0 |
| 20200828T023000 | 2020 | 08 | 28 | 02:30 | 66.4 | 99.7 | 0 |
| 20200828T023500 | 2020 | 08 | 28 | 02:35 | 66.4 | 99.7 | 0 |
| 20200828T024000 | 2020 | 08 | 28 | 02:40 | 66.5 | 99.5 | 0 |
| 20200828T024500 | 2020 | 08 | 28 | 02:45 | 66.4 | 99.3 | 0 |
| 20200828T025000 | 2020 | 08 | 28 | 02:50 | 66.3 | 99.2 | 0 |
| 20200828T025500 | 2020 | 08 | 28 | 02:55 | 66.2 | 99 | 0 |
| 20200828T030000 | 2020 | 08 | 28 | 03:00 | 65.9 | 99 | 0 |
| 20200828T030500 | 2020 | 08 | 28 | 03:05 | 65.9 | 99 | 0 |
| 20200828T031000 | 2020 | 08 | 28 | 03:10 | 65.7 | 99.2 | 0 |
| 20200828T031500 | 2020 | 08 | 28 | 03:15 | 65.6 | 99.1 | 0 |
| 20200828T032000 | 2020 | 08 | 28 | 03:20 | 65.4 | 99.1 | 0 |
| 20200828T032500 | 2020 | 08 | 28 | 03:25 | 65.4 | 99.2 | 0 |
| 20200828T033000 | 2020 | 08 | 28 | 03:30 | 65.4 | 99.1 | 0 |
| 20200828T033500 | 2020 | 08 | 28 | 03:35 | 65.4 | 99 | 0 |
| 20200828T034000 | 2020 | 08 | 28 | 03:40 | 65.3 | 98.9 | 0 |
| 20200828T034500 | 2020 | 08 | 28 | 03:45 | 65 | 99 | 0 |
| 20200828T035000 | 2020 | 08 | 28 | 03:50 | 65 | 99.1 | 0 |
| 20200828T035500 | 2020 | 08 | 28 | 03:55 | 65.1 | 99.1 | 0 |
| 20200828T040000 | 2020 | 08 | 28 | 04:00 | 65.1 | 98.7 | 0 |
| 20200828T040500 | 2020 | 08 | 28 | 04:05 | 65.1 | 98.4 | 0 |
| 20200828T041000 | 2020 | 08 | 28 | 04:10 | 65.1 | 98.6 | 0 |
| 20200828T041500 | 2020 | 08 | 28 | 04:15 | 64.9 | 98.5 | 0 |
| 20200828T042000 | 2020 | 08 | 28 | 04:20 | 64.5 | 98.8 | 0 |
| 20200828T042500 | 2020 | 08 | 28 | 04:25 | 64.5 | 99.2 | 0 |
| 20200828T043000 | 2020 | 08 | 28 | 04:30 | 64.3 | 99.1 | 0 |
| 20200828T043500 | 2020 | 08 | 28 | 04:35 | 64.3 | 99.5 | 0 |
| 20200828T044000 | 2020 | 08 | 28 | 04:40 | 64.5 | 99.7 | 0 |
| 20200828T044500 | 2020 | 08 | 28 | 04:45 | 64.6 | 99.6 | 0 |
| 20200828T045000 | 2020 | 08 | 28 | 04:50 | 64.6 | 99.5 | 0 |
| 20200828T045500 | 2020 | 08 | 28 | 04:55 | 64.4 | 99.5 | 0 |
| 20200828T050000 | 2020 | 08 | 28 | 05:00 | 64.3 | 99.7 | 0 |
| 20200828T050500 | 2020 | 08 | 28 | 05:05 | 64.4 | 99.6 | 0 |
| 20200828T051000 | 2020 | 08 | 28 | 05:10 | 64.5 | 99.4 | 0 |
| 20200828T051500 | 2020 | 08 | 28 | 05:15 | 64.5 | 99.4 | 0 |
| 20200828T052000 | 2020 | 08 | 28 | 05:20 | 64.4 | 99.5 | 0 |
| 20200828T052500 | 2020 | 08 | 28 | 05:25 | 64.5 | 99.7 | 0 |
| 20200828T053000 | 2020 | 08 | 28 | 05:30 | 64.6 | 99.5 | 0 |
| 20200828T053500 | 2020 | 08 | 28 | 05:35 | 64.5 | 99.4 | 0 |
| 20200828T054000 | 2020 | 08 | 28 | 05:40 | 64.3 | 99.5 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200828T054500 | 2020 | 08 | 28 | 05:45 | 64.1 | 99.6 | 0 |
| 20200828T055000 | 2020 | 08 | 28 | 05:50 | 64 | 99.7 | 0 |
| 20200828T055500 | 2020 | 08 | 28 | 05:55 | 64 | 99.8 | 0 |
| 20200828T060000 | 2020 | 08 | 28 | 06:00 | 64 | 99.9 | 0 |
| 20200828T060500 | 2020 | 08 | 28 | 06:05 | 63.9 | 99.9 | 0 |
| 20200828T061000 | 2020 | 08 | 28 | 06:10 | 64 | 100 | 0 |
| 20200828T061500 | 2020 | 08 | 28 | 06:15 | 64.1 | 100 | 0 |
| 20200828T062000 | 2020 | 08 | 28 | 06:20 | 64 | 100 | 0 |
| 20200828T062500 | 2020 | 08 | 28 | 06:25 | 64.1 | 100 | 0 |
| 20200828T063000 | 2020 | 08 | 28 | 06:30 | 64.2 | 100 | 0 |
| 20200828T063500 | 2020 | 08 | 28 | 06:35 | 64.2 | 100 | 0 |
| 20200828T064000 | 2020 | 08 | 28 | 06:40 | 64.2 | 100 | 0 |
| 20200828T064500 | 2020 | 08 | 28 | 06:45 | 64.2 | 100 | 0 |
| 20200828T065000 | 2020 | 08 | 28 | 06:50 | 64.2 | 100 | 0 |
| 20200828T065500 | 2020 | 08 | 28 | 06:55 | 64.2 | 100 | 0 |
| 20200828T070000 | 2020 | 08 | 28 | 07:00 | 64.2 | 100 | 0 |
| 20200828T070500 | 2020 | 08 | 28 | 07:05 | 64.3 | 100 | 0 |
| 20200828T071000 | 2020 | 08 | 28 | 07:10 | 64.3 | 100 | 0 |
| 20200828T071500 | 2020 | 08 | 28 | 07:15 | 64.4 | 100 | 0 |
| 20200828T072000 | 2020 | 08 | 28 | 07:20 | 64.5 | 100 | 0 |
| 20200828T072500 | 2020 | 08 | 28 | 07:25 | 64.6 | 100 | 0 |
| 20200828T073000 | 2020 | 08 | 28 | 07:30 | 64.6 | 99.9 | 0 |
| 20200828T073500 | 2020 | 08 | 28 | 07:35 | 64.6 | 99.8 | 0 |
| 20200828T074000 | 2020 | 08 | 28 | 07:40 | 64.5 | 99.7 | 0 |
| 20200828T074500 | 2020 | 08 | 28 | 07:45 | 64.6 | 99.6 | 0 |
| 20200828T075000 | 2020 | 08 | 28 | 07:50 | 64.7 | 99.8 | 0 |
| 20200828T075500 | 2020 | 08 | 28 | 07:55 | 64.7 | 99.7 | 0 |
| 20200828T080000 | 2020 | 08 | 28 | 08:00 | 64.7 | 99.8 | 0 |
| 20200828T080500 | 2020 | 08 | 28 | 08:05 | 64.8 | 99.8 | 0 |
| 20200828T081000 | 2020 | 08 | 28 | 08:10 | 64.8 | 99.8 | 0 |
| 20200828T081500 | 2020 | 08 | 28 | 08:15 | 64.8 | 99.6 | 0 |
| 20200828T082000 | 2020 | 08 | 28 | 08:20 | 64.9 | 99.5 | 0 |
| 20200828T082500 | 2020 | 08 | 28 | 08:25 | 64.9 | 99.1 | 0 |
| 20200828T083000 | 2020 | 08 | 28 | 08:30 | 64.9 | 98.9 | 0 |
| 20200828T083500 | 2020 | 08 | 28 | 08:35 | 65 | 98.2 | 0 |
| 20200828T084000 | 2020 | 08 | 28 | 08:40 | 65.1 | 98.3 | 0 |
| 20200828T084500 | 2020 | 08 | 28 | 08:45 | 65.1 | 96.7 | 0 |
| 20200828T085000 | 2020 | 08 | 28 | 08:50 | 65.2 | 94.4 | 0 |
| 20200828T085500 | 2020 | 08 | 28 | 08:55 | 65.2 | 94.6 | 0 |
| 20200828T090000 | 2020 | 08 | 28 | 09:00 | 65.2 | 95.3 | 0 |
| 20200828T090500 | 2020 | 08 | 28 | 09:05 | 65.2 | 95.2 | 0 |
| 20200828T091000 | 2020 | 08 | 28 | 09:10 | 65.2 | 94.3 | 0 |
| 20200828T091500 | 2020 | 08 | 28 | 09:15 | 65.4 | 93 | 0 |
| 20200828T092000 | 2020 | 08 | 28 | 09:20 | 65.5 | 92.3 | 0 |
| 20200828T092500 | 2020 | 08 | 28 | 09:25 | 65.4 | 89.7 | 0 |
| 20200828T093000 | 2020 | 08 | 28 | 09:30 | 65.4 | 89.6 | 0 |
| 20200828T093500 | 2020 | 08 | 28 | 09:35 | 65.5 | 89.5 | 0 |
| 20200828T094000 | 2020 | 08 | 28 | 09:40 | 65.7 | 87.6 | 0 |
| 20200828T094500 | 2020 | 08 | 28 | 09:45 | 66.1 | 87.7 | 0 |
| 20200828T095000 | 2020 | 08 | 28 | 09:50 | 66.5 | 86.6 | 0 |
| 20200828T095500 | 2020 | 08 | 28 | 09:55 | 66.1 | 86 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200828T100000 | 2020 | 08 | 28 | 10:00 | 66 | 87.2 | 0 |
| 20200828T100500 | 2020 | 08 | 28 | 10:05 | 66.4 | 87.2 | 0 |
| 20200828T101000 | 2020 | 08 | 28 | 10:10 | 66.7 | 87.5 | 0 |
| 20200828T101500 | 2020 | 08 | 28 | 10:15 | 66.6 | 86.5 | 0 |
| 20200828T102000 | 2020 | 08 | 28 | 10:20 | 66.3 | 87.2 | 0 |
| 20200828T102500 | 2020 | 08 | 28 | 10:25 | 66.2 | 87 | 0 |
| 20200828T103000 | 2020 | 08 | 28 | 10:30 | 65.8 | 87.5 | 0 |
| 20200828T103500 | 2020 | 08 | 28 | 10:35 | 66 | 88.5 | 0 |
| 20200828T104000 | 2020 | 08 | 28 | 10:40 | 66.1 | 87.9 | 0 |
| 20200828T104500 | 2020 | 08 | 28 | 10:45 | 66.2 | 87.8 | 0 |
| 20200828T105000 | 2020 | 08 | 28 | 10:50 | 66.3 | 86.5 | 0 |
| 20200828T105500 | 2020 | 08 | 28 | 10:55 | 66.3 | 86.3 | 0 |
| 20200828T110000 | 2020 | 08 | 28 | 11:00 | 66.4 | 87.6 | 0 |
| 20200828T110500 | 2020 | 08 | 28 | 11:05 | 66.3 | 85.7 | 0 |
| 20200828T111000 | 2020 | 08 | 28 | 11:10 | 66.5 | 86 | 0 |
| 20200828T111500 | 2020 | 08 | 28 | 11:15 | 66.9 | 86.1 | 0 |
| 20200828T112000 | 2020 | 08 | 28 | 11:20 | 66.9 | 84.7 | 0 |
| 20200828T112500 | 2020 | 08 | 28 | 11:25 | 67.5 | 84.5 | 0 |
| 20200828T113000 | 2020 | 08 | 28 | 11:30 | 67.5 | 83 | 0 |
| 20200828T113500 | 2020 | 08 | 28 | 11:35 | 67.5 | 82.4 | 0 |
| 20200828T114000 | 2020 | 08 | 28 | 11:40 | 66.8 | 82.8 | 0 |
| 20200828T114500 | 2020 | 08 | 28 | 11:45 | 66.4 | 84.4 | 0 |
| 20200828T115000 | 2020 | 08 | 28 | 11:50 | 66.5 | 84.5 | 0 |
| 20200828T115500 | 2020 | 08 | 28 | 11:55 | 66.7 | 83.8 | 0 |
| 20200828T120000 | 2020 | 08 | 28 | 12:00 | 66.9 | 83 | 0 |
| 20200828T120500 | 2020 | 08 | 28 | 12:05 | 66.1 | 83.4 | 0 |
| 20200828T121000 | 2020 | 08 | 28 | 12:10 | 66.3 | 83.6 | 0 |
| 20200828T121500 | 2020 | 08 | 28 | 12:15 | 65.9 | 83 | 0 |
| 20200828T122000 | 2020 | 08 | 28 | 12:20 | 65.8 | 83.8 | 0 |
| 20200828T122500 | 2020 | 08 | 28 | 12:25 | 65.7 | 83.8 | 0 |
| 20200828T123000 | 2020 | 08 | 28 | 12:30 | 65.7 | 83.4 | 0 |
| 20200828T123500 | 2020 | 08 | 28 | 12:35 | 66 | 82.3 | 0 |
| 20200828T124000 | 2020 | 08 | 28 | 12:40 | 66.3 | 82.6 | 0 |
| 20200828T124500 | 2020 | 08 | 28 | 12:45 | 66.7 | 81 | 0 |
| 20200828T125000 | 2020 | 08 | 28 | 12:50 | 66.2 | 81.5 | 0 |
| 20200828T125500 | 2020 | 08 | 28 | 12:55 | 66.1 | 81 | 0 |
| 20200828T130000 | 2020 | 08 | 28 | 13:00 | 66.5 | 81.7 | 0 |
| 20200828T130500 | 2020 | 08 | 28 | 13:05 | 66 | 81.8 | 0 |
| 20200828T131000 | 2020 | 08 | 28 | 13:10 | 66 | 81.4 | 0 |
| 20200828T131500 | 2020 | 08 | 28 | 13:15 | 67.2 | 80.1 | 0 |
| 20200828T132000 | 2020 | 08 | 28 | 13:20 | 67.8 | 79.8 | 0 |
| 20200828T132500 | 2020 | 08 | 28 | 13:25 | 68 | 80.7 | 0 |
| 20200828T133000 | 2020 | 08 | 28 | 13:30 | 68.1 | 78.2 | 0 |
| 20200828T133500 | 2020 | 08 | 28 | 13:35 | 67.1 | 77.7 | 0 |
| 20200828T134000 | 2020 | 08 | 28 | 13:40 | 68.2 | 78.5 | 0 |
| 20200828T134500 | 2020 | 08 | 28 | 13:45 | 67.7 | 77.8 | 0 |
| 20200828T135000 | 2020 | 08 | 28 | 13:50 | 68.3 | 78.7 | 0 |
| 20200828T135500 | 2020 | 08 | 28 | 13:55 | 68.1 | 78.6 | 0 |
| 20200828T140000 | 2020 | 08 | 28 | 14:00 | 68.2 | 76.4 | 0 |
| 20200828T140500 | 2020 | 08 | 28 | 14:05 | 69.7 | 75.9 | 0 |
| 20200828T141000 | 2020 | 08 | 28 | 14:10 | 69.5 | 75.6 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200828T141500 | 2020 | 08 | 28 | 14:15 | 69 | 75.5 | 0 |
| 20200828T142000 | 2020 | 08 | 28 | 14:20 | 68.4 | 78 | 0 |
| 20200828T142500 | 2020 | 08 | 28 | 14:25 | 68.6 | 78 | 0 |
| 20200828T143000 | 2020 | 08 | 28 | 14:30 | 68.6 | 77.7 | 0 |
| 20200828T143500 | 2020 | 08 | 28 | 14:35 | 69 | 76.8 | 0 |
| 20200828T144000 | 2020 | 08 | 28 | 14:40 | 69 | 77 | 0 |
| 20200828T144500 | 2020 | 08 | 28 | 14:45 | 68.4 | 78 | 0 |
| 20200828T145000 | 2020 | 08 | 28 | 14:50 | 68.4 | 78.4 | 0 |
| 20200828T145500 | 2020 | 08 | 28 | 14:55 | 68.6 | 78.8 | 0 |
| 20200828T150000 | 2020 | 08 | 28 | 15:00 | 69 | 77.9 | 0 |
| 20200828T150500 | 2020 | 08 | 28 | 15:05 | 68.8 | 77.5 | 0 |
| 20200828T151000 | 2020 | 08 | 28 | 15:10 | 69.3 | 77.5 | 0 |
| 20200828T151500 | 2020 | 08 | 28 | 15:15 | 70.2 | 77.5 | 0 |
| 20200828T152000 | 2020 | 08 | 28 | 15:20 | 69.9 | 76.1 | 0 |
| 20200828T152500 | 2020 | 08 | 28 | 15:25 | 69.1 | 76.3 | 0 |
| 20200828T153000 | 2020 | 08 | 28 | 15:30 | 69.4 | 77.2 | 0 |
| 20200828T153500 | 2020 | 08 | 28 | 15:35 | 69.5 | 75.5 | 0 |
| 20200828T154000 | 2020 | 08 | 28 | 15:40 | 69.8 | 75.7 | 0 |
| 20200828T154500 | 2020 | 08 | 28 | 15:45 | 69.8 | 75.1 | 0 |
| 20200828T155000 | 2020 | 08 | 28 | 15:50 | 69.9 | 75.1 | 0 |
| 20200828T155500 | 2020 | 08 | 28 | 15:55 | 69.5 | 76.6 | 0 |
| 20200828T160000 | 2020 | 08 | 28 | 16:00 | 69.5 | 76.5 | 0 |
| 20200828T160500 | 2020 | 08 | 28 | 16:05 | 69.3 | 76 | 0 |
| 20200828T161000 | 2020 | 08 | 28 | 16:10 | 69.3 | 76.1 | 0 |
| 20200828T161500 | 2020 | 08 | 28 | 16:15 | 69.5 | 76.5 | 0 |
| 20200828T162000 | 2020 | 08 | 28 | 16:20 | 69.9 | 75.5 | 0 |
| 20200828T162500 | 2020 | 08 | 28 | 16:25 | 69.6 | 75.4 | 0 |
| 20200828T163000 | 2020 | 08 | 28 | 16:30 | 69 | 75.6 | 0 |
| 20200828T163500 | 2020 | 08 | 28 | 16:35 | 69.3 | 77 | 0 |
| 20200828T164000 | 2020 | 08 | 28 | 16:40 | 69 | 76.6 | 0 |
| 20200828T164500 | 2020 | 08 | 28 | 16:45 | 68.8 | 76.6 | 0 |
| 20200828T165000 | 2020 | 08 | 28 | 16:50 | 68.7 | 76.8 | 0 |
| 20200828T165500 | 2020 | 08 | 28 | 16:55 | 68.6 | 76.7 | 0 |
| 20200828T170000 | 2020 | 08 | 28 | 17:00 | 68.4 | 77.3 | 0 |
| 20200828T170500 | 2020 | 08 | 28 | 17:05 | 68.4 | 77.4 | 0 |
| 20200828T171000 | 2020 | 08 | 28 | 17:10 | 68.5 | 76.9 | 0 |
| 20200828T171500 | 2020 | 08 | 28 | 17:15 | 68.5 | 77.3 | 0 |
| 20200828T172000 | 2020 | 08 | 28 | 17:20 | 68.6 | 77.3 | 0 |
| 20200828T172500 | 2020 | 08 | 28 | 17:25 | 68.7 | 77.2 | 0 |
| 20200828T173000 | 2020 | 08 | 28 | 17:30 | 68.8 | 77.9 | 0 |
| 20200828T173500 | 2020 | 08 | 28 | 17:35 | 69.1 | 77.5 | 0 |
| 20200828T174000 | 2020 | 08 | 28 | 17:40 | 69 | 76.7 | 0 |
| 20200828T174500 | 2020 | 08 | 28 | 17:45 | 68.8 | 76.9 | 0 |
| 20200828T175000 | 2020 | 08 | 28 | 17:50 | 68.5 | 76.8 | 0 |
| 20200828T175500 | 2020 | 08 | 28 | 17:55 | 68.3 | 78.3 | 0 |
| 20200828T180000 | 2020 | 08 | 28 | 18:00 | 68.3 | 78.9 | 0 |
| 20200828T180500 | 2020 | 08 | 28 | 18:05 | 68.4 | 78.8 | 0 |
| 20200828T181000 | 2020 | 08 | 28 | 18:10 | 68.6 | 78.1 | 0 |
| 20200828T181500 | 2020 | 08 | 28 | 18:15 | 68.7 | 77.7 | 0 |
| 20200828T182000 | 2020 | 08 | 28 | 18:20 | 68.8 | 77.7 | 0 |
| 20200828T182500 | 2020 | 08 | 28 | 18:25 | 68.6 | 77.7 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200828T183000 | 2020 | 08 | 28 | 18:30 | 68.4 | 78.4 | 0 |
| 20200828T183500 | 2020 | 08 | 28 | 18:35 | 68.3 | 79.2 | 0 |
| 20200828T184000 | 2020 | 08 | 28 | 18:40 | 68.1 | 79.1 | 0 |
| 20200828T184500 | 2020 | 08 | 28 | 18:45 | 68 | 79.2 | 0 |
| 20200828T185000 | 2020 | 08 | 28 | 18:50 | 67.9 | 78.5 | 0 |
| 20200828T185500 | 2020 | 08 | 28 | 18:55 | 67.8 | 78.9 | 0 |
| 20200828T190000 | 2020 | 08 | 28 | 19:00 | 67.8 | 79.9 | 0 |
| 20200828T190500 | 2020 | 08 | 28 | 19:05 | 67.7 | 80.5 | 0 |
| 20200828T191000 | 2020 | 08 | 28 | 19:10 | 67.5 | 81.4 | 0 |
| 20200828T191500 | 2020 | 08 | 28 | 19:15 | 67.4 | 81.2 | 0 |
| 20200828T192000 | 2020 | 08 | 28 | 19:20 | 67.3 | 81.6 | 0 |
| 20200828T192500 | 2020 | 08 | 28 | 19:25 | 67.2 | 82 | 0 |
| 20200828T193000 | 2020 | 08 | 28 | 19:30 | 67.1 | 82.5 | 0 |
| 20200828T193500 | 2020 | 08 | 28 | 19:35 | 66.9 | 82.7 | 0 |
| 20200828T194000 | 2020 | 08 | 28 | 19:40 | 66.5 | 81.9 | 0 |
| 20200828T194500 | 2020 | 08 | 28 | 19:45 | 66.3 | 81.8 | 0 |
| 20200828T195000 | 2020 | 08 | 28 | 19:50 | 66.2 | 82.4 | 0 |
| 20200828T195500 | 2020 | 08 | 28 | 19:55 | 66 | 83 | 0 |
| 20200828T200000 | 2020 | 08 | 28 | 20:00 | 65.8 | 83.3 | 0 |
| 20200828T200500 | 2020 | 08 | 28 | 20:05 | 65.7 | 83.6 | 0 |
| 20200828T201000 | 2020 | 08 | 28 | 20:10 | 65.6 | 83.7 | 0 |
| 20200828T201500 | 2020 | 08 | 28 | 20:15 | 65.6 | 83.7 | 0 |
| 20200828T202000 | 2020 | 08 | 28 | 20:20 | 65.5 | 83.6 | 0 |
| 20200828T202500 | 2020 | 08 | 28 | 20:25 | 65.4 | 83.2 | 0 |
| 20200828T203000 | 2020 | 08 | 28 | 20:30 | 65.2 | 83.2 | 0 |
| 20200828T203500 | 2020 | 08 | 28 | 20:35 | 65.1 | 83.4 | 0 |
| 20200828T204000 | 2020 | 08 | 28 | 20:40 | 65 | 83.7 | 0 |
| 20200828T204500 | 2020 | 08 | 28 | 20:45 | 64.9 | 84.8 | 0 |
| 20200828T205000 | 2020 | 08 | 28 | 20:50 | 64.8 | 85.5 | 0 |
| 20200828T205500 | 2020 | 08 | 28 | 20:55 | 64.6 | 86.4 | 0 |
| 20200828T210000 | 2020 | 08 | 28 | 21:00 | 64.5 | 87.4 | 0 |
| 20200828T210500 | 2020 | 08 | 28 | 21:05 | 64.5 | 87.5 | 0 |
| 20200828T211000 | 2020 | 08 | 28 | 21:10 | 64.4 | 87.9 | 0 |
| 20200828T211500 | 2020 | 08 | 28 | 21:15 | 64.5 | 87.9 | 0 |
| 20200828T212000 | 2020 | 08 | 28 | 21:20 | 64.7 | 87.9 | 0 |
| 20200828T212500 | 2020 | 08 | 28 | 21:25 | 64.8 | 87.4 | 0 |
| 20200828T213000 | 2020 | 08 | 28 | 21:30 | 64.8 | 87.4 | 0 |
| 20200828T213500 | 2020 | 08 | 28 | 21:35 | 64.7 | 87.8 | 0 |
| 20200828T214000 | 2020 | 08 | 28 | 21:40 | 64.7 | 87.9 | 0 |
| 20200828T214500 | 2020 | 08 | 28 | 21:45 | 64.7 | 88.5 | 0 |
| 20200828T215000 | 2020 | 08 | 28 | 21:50 | 64.6 | 89.3 | 0 |
| 20200828T215500 | 2020 | 08 | 28 | 21:55 | 64.5 | 89.7 | 0 |
| 20200828T220000 | 2020 | 08 | 28 | 22:00 | 64.4 | 90.5 | 0 |
| 20200828T220500 | 2020 | 08 | 28 | 22:05 | 64.4 | 91.1 | 0 |
| 20200828T221000 | 2020 | 08 | 28 | 22:10 | 64.4 | 91 | 0 |
| 20200828T221500 | 2020 | 08 | 28 | 22:15 | 64.3 | 91.4 | 0 |
| 20200828T222000 | 2020 | 08 | 28 | 22:20 | 64.3 | 92.2 | 0 |
| 20200828T222500 | 2020 | 08 | 28 | 22:25 | 64.3 | 92.8 | 0 |
| 20200828T223000 | 2020 | 08 | 28 | 22:30 | 64.4 | 93.2 | 0 |
| 20200828T223500 | 2020 | 08 | 28 | 22:35 | 64.5 | 93.6 | 0 |
| 20200828T224000 | 2020 | 08 | 28 | 22:40 | 64.6 | 93.4 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200828T224500 | 2020 | 08 | 28 | 22:45 | 64.7 | 93.5 | 0 |
| 20200828T225000 | 2020 | 08 | 28 | 22:50 | 64.7 | 93.6 | 0 |
| 20200828T225500 | 2020 | 08 | 28 | 22:55 | 64.6 | 93.7 | 0 |
| 20200828T230000 | 2020 | 08 | 28 | 23:00 | 64.6 | 94.2 | 0 |
| 20200828T230500 | 2020 | 08 | 28 | 23:05 | 64.6 | 94.4 | 0 |
| 20200828T231000 | 2020 | 08 | 28 | 23:10 | 64.5 | 95.2 | 0 |
| 20200828T231500 | 2020 | 08 | 28 | 23:15 | 64.5 | 95.7 | 0 |
| 20200828T232000 | 2020 | 08 | 28 | 23:20 | 64.5 | 96 | 0 |
| 20200828T232500 | 2020 | 08 | 28 | 23:25 | 64.5 | 96 | 0 |
| 20200828T233000 | 2020 | 08 | 28 | 23:30 | 64.6 | 96 | 0 |
| 20200828T233500 | 2020 | 08 | 28 | 23:35 | 64.6 | 96 | 0 |
| 20200828T234000 | 2020 | 08 | 28 | 23:40 | 64.7 | 95.9 | 0 |
| 20200828T234500 | 2020 | 08 | 28 | 23:45 | 64.8 | 95.8 | 0 |
| 20200828T235000 | 2020 | 08 | 28 | 23:50 | 64.9 | 95.6 | 0 |
| 20200828T235500 | 2020 | 08 | 28 | 23:55 | 64.9 | 95.3 | 0 |
| 20200829T000000 | 2020 | 08 | 29 | 00:00 | 65 | 95.4 | 0 |
| 20200829T000500 | 2020 | 08 | 29 | 00:05 | 65 | 95.6 | 0 |
| 20200829T001000 | 2020 | 08 | 29 | 00:10 | 65.1 | 95.6 | 0 |
| 20200829T001500 | 2020 | 08 | 29 | 00:15 | 65.2 | 95.5 | 0 |
| 20200829T002000 | 2020 | 08 | 29 | 00:20 | 65.3 | 95.7 | 0 |
| 20200829T002500 | 2020 | 08 | 29 | 00:25 | 65.4 | 95.9 | 0 |
| 20200829T003000 | 2020 | 08 | 29 | 00:30 | 65.5 | 95.9 | 0 |
| 20200829T003500 | 2020 | 08 | 29 | 00:35 | 65.6 | 96 | 0 |
| 20200829T004000 | 2020 | 08 | 29 | 00:40 | 65.8 | 96 | 0 |
| 20200829T004500 | 2020 | 08 | 29 | 00:45 | 65.9 | 96 | 0 |
| 20200829T005000 | 2020 | 08 | 29 | 00:50 | 66.2 | 96.3 | 0 |
| 20200829T005500 | 2020 | 08 | 29 | 00:55 | 67 | 96.3 | 0 |
| 20200829T010000 | 2020 | 08 | 29 | 01:00 | 67.6 | 94.8 | 0 |
| 20200829T010500 | 2020 | 08 | 29 | 01:05 | 68 | 94.4 | 0 |
| 20200829T011000 | 2020 | 08 | 29 | 01:10 | 68.2 | 93.8 | 0 |
| 20200829T011500 | 2020 | 08 | 29 | 01:15 | 68.4 | 93.1 | 0 |
| 20200829T012000 | 2020 | 08 | 29 | 01:20 | 68.6 | 92.6 | 0 |
| 20200829T012500 | 2020 | 08 | 29 | 01:25 | 68.6 | 92.4 | 0 |
| 20200829T013000 | 2020 | 08 | 29 | 01:30 | 68.7 | 92.2 | 0 |
| 20200829T013500 | 2020 | 08 | 29 | 01:35 | 68.7 | 92 | 0 |
| 20200829T014000 | 2020 | 08 | 29 | 01:40 | 68.8 | 91.7 | 0 |
| 20200829T014500 | 2020 | 08 | 29 | 01:45 | 69 | 91 | 0 |
| 20200829T015000 | 2020 | 08 | 29 | 01:50 | 69.1 | 90.4 | 0 |
| 20200829T015500 | 2020 | 08 | 29 | 01:55 | 69 | 90.6 | 0 |
| 20200829T020000 | 2020 | 08 | 29 | 02:00 | 68.8 | 91.2 | 0 |
| 20200829T020500 | 2020 | 08 | 29 | 02:05 | 68.9 | 91.2 | 0 |
| 20200829T021000 | 2020 | 08 | 29 | 02:10 | 68.8 | 91.3 | 0 |
| 20200829T021500 | 2020 | 08 | 29 | 02:15 | 68.6 | 91.6 | 0 |
| 20200829T022000 | 2020 | 08 | 29 | 02:20 | 68.7 | 91.5 | 0 |
| 20200829T022500 | 2020 | 08 | 29 | 02:25 | 68.6 | 91.7 | 0 |
| 20200829T023000 | 2020 | 08 | 29 | 02:30 | 68.6 | 91.8 | 0 |
| 20200829T023500 | 2020 | 08 | 29 | 02:35 | 68.6 | 91.8 | 0 |
| 20200829T024000 | 2020 | 08 | 29 | 02:40 | 68.5 | 92 | 0 |
| 20200829T024500 | 2020 | 08 | 29 | 02:45 | 68.5 | 91.8 | 0 |
| 20200829T025000 | 2020 | 08 | 29 | 02:50 | 68.8 | 90.8 | 0 |
| 20200829T025500 | 2020 | 08 | 29 | 02:55 | 68.8 | 90.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200829T030000 | 2020 | 08 | 29 | 03:00 | 68.7 | 90.4 | 0 |
| 20200829T030500 | 2020 | 08 | 29 | 03:05 | 68.6 | 90.9 | 0 |
| 20200829T031000 | 2020 | 08 | 29 | 03:10 | 68.5 | 91.1 | 0 |
| 20200829T031500 | 2020 | 08 | 29 | 03:15 | 68.6 | 91.3 | 0 |
| 20200829T032000 | 2020 | 08 | 29 | 03:20 | 68.8 | 90.1 | 0 |
| 20200829T032500 | 2020 | 08 | 29 | 03:25 | 68.6 | 90.3 | 0 |
| 20200829T033000 | 2020 | 08 | 29 | 03:30 | 68.4 | 90.8 | 0 |
| 20200829T033500 | 2020 | 08 | 29 | 03:35 | 68.3 | 91 | 0 |
| 20200829T034000 | 2020 | 08 | 29 | 03:40 | 68.4 | 90.7 | 0 |
| 20200829T034500 | 2020 | 08 | 29 | 03:45 | 68.4 | 90.5 | 0 |
| 20200829T035000 | 2020 | 08 | 29 | 03:50 | 68.3 | 90.6 | 0 |
| 20200829T035500 | 2020 | 08 | 29 | 03:55 | 68.5 | 90.4 | 0 |
| 20200829T040000 | 2020 | 08 | 29 | 04:00 | 68.3 | 90.5 | 0 |
| 20200829T040500 | 2020 | 08 | 29 | 04:05 | 68.1 | 91.4 | 0 |
| 20200829T041000 | 2020 | 08 | 29 | 04:10 | 68.2 | 91.4 | 0 |
| 20200829T041500 | 2020 | 08 | 29 | 04:15 | 68.1 | 91.6 | 0 |
| 20200829T042000 | 2020 | 08 | 29 | 04:20 | 68 | 92.1 | 0 |
| 20200829T042500 | 2020 | 08 | 29 | 04:25 | 67.9 | 92.3 | 0 |
| 20200829T043000 | 2020 | 08 | 29 | 04:30 | 67.6 | 93.2 | 0 |
| 20200829T043500 | 2020 | 08 | 29 | 04:35 | 68.2 | 92.1 | 0 |
| 20200829T044000 | 2020 | 08 | 29 | 04:40 | 68.3 | 90.8 | 0 |
| 20200829T044500 | 2020 | 08 | 29 | 04:45 | 68.6 | 89.8 | 0 |
| 20200829T045000 | 2020 | 08 | 29 | 04:50 | 68.7 | 89.5 | 0 |
| 20200829T045500 | 2020 | 08 | 29 | 04:55 | 68.9 | 88.9 | 0 |
| 20200829T050000 | 2020 | 08 | 29 | 05:00 | 69 | 88.8 | 0 |
| 20200829T050500 | 2020 | 08 | 29 | 05:05 | 69.1 | 88.3 | 0 |
| 20200829T051000 | 2020 | 08 | 29 | 05:10 | 69.3 | 88 | 0 |
| 20200829T051500 | 2020 | 08 | 29 | 05:15 | 69.5 | 87.4 | 0 |
| 20200829T052000 | 2020 | 08 | 29 | 05:20 | 69.5 | 87.2 | 0 |
| 20200829T052500 | 2020 | 08 | 29 | 05:25 | 69.5 | 87.5 | 0 |
| 20200829T053000 | 2020 | 08 | 29 | 05:30 | 69.5 | 87.4 | 0 |
| 20200829T053500 | 2020 | 08 | 29 | 05:35 | 69.6 | 87.2 | 0 |
| 20200829T054000 | 2020 | 08 | 29 | 05:40 | 69.8 | 86.8 | 0 |
| 20200829T054500 | 2020 | 08 | 29 | 05:45 | 69.9 | 86.5 | 0 |
| 20200829T055000 | 2020 | 08 | 29 | 05:50 | 70 | 86.4 | 0 |
| 20200829T055500 | 2020 | 08 | 29 | 05:55 | 70 | 86.3 | 0 |
| 20200829T060000 | 2020 | 08 | 29 | 06:00 | 70.1 | 86.1 | 0 |
| 20200829T060500 | 2020 | 08 | 29 | 06:05 | 70.3 | 85.8 | 0 |
| 20200829T061000 | 2020 | 08 | 29 | 06:10 | 70.3 | 85.8 | 0 |
| 20200829T061500 | 2020 | 08 | 29 | 06:15 | 70.3 | 85.7 | 0 |
| 20200829T062000 | 2020 | 08 | 29 | 06:20 | 70.3 | 86.2 | 0 |
| 20200829T062500 | 2020 | 08 | 29 | 06:25 | 70.3 | 86.2 | 0 |
| 20200829T063000 | 2020 | 08 | 29 | 06:30 | 70.2 | 86.9 | 0 |
| 20200829T063500 | 2020 | 08 | 29 | 06:35 | 70.2 | 86.9 | 0 |
| 20200829T064000 | 2020 | 08 | 29 | 06:40 | 70 | 87.5 | 0 |
| 20200829T064500 | 2020 | 08 | 29 | 06:45 | 70.3 | 87.2 | 0 |
| 20200829T065000 | 2020 | 08 | 29 | 06:50 | 70.4 | 87.2 | 0 |
| 20200829T065500 | 2020 | 08 | 29 | 06:55 | 70.5 | 87.5 | 0 |
| 20200829T070000 | 2020 | 08 | 29 | 07:00 | 70.7 | 87.4 | 0 |
| 20200829T070500 | 2020 | 08 | 29 | 07:05 | 70.9 | 87.2 | 0 |
| 20200829T071000 | 2020 | 08 | 29 | 07:10 | 71 | 87.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200829T071500 | 2020 | 08 | 29 | 07:15 | 71.1 | 87.4 | 0 |
| 20200829T072000 | 2020 | 08 | 29 | 07:20 | 71.4 | 87.1 | 0 |
| 20200829T072500 | 2020 | 08 | 29 | 07:25 | 71.8 | 86.6 | 0 |
| 20200829T073000 | 2020 | 08 | 29 | 07:30 | 72 | 86.3 | 0 |
| 20200829T073500 | 2020 | 08 | 29 | 07:35 | 72.2 | 86.5 | 0 |
| 20200829T074000 | 2020 | 08 | 29 | 07:40 | 72.3 | 86.4 | 0 |
| 20200829T074500 | 2020 | 08 | 29 | 07:45 | 72.4 | 86.6 | 0 |
| 20200829T075000 | 2020 | 08 | 29 | 07:50 | 72.3 | 87.4 | 0 |
| 20200829T075500 | 2020 | 08 | 29 | 07:55 | 72.1 | 88.9 | 0.003 |
| 20200829T080000 | 2020 | 08 | 29 | 08:00 | 71.7 | 90.7 | 0 |
| 20200829T080500 | 2020 | 08 | 29 | 08:05 | 71.6 | 91.6 | 0 |
| 20200829T081000 | 2020 | 08 | 29 | 08:10 | 71.4 | 92.5 | 0 |
| 20200829T081500 | 2020 | 08 | 29 | 08:15 | 71.4 | 93.2 | 0 |
| 20200829T082000 | 2020 | 08 | 29 | 08:20 | 71.4 | 93.1 | 0 |
| 20200829T082500 | 2020 | 08 | 29 | 08:25 | 71.4 | 93.7 | 0 |
| 20200829T083000 | 2020 | 08 | 29 | 08:30 | 71.4 | 94.1 | 0 |
| 20200829T083500 | 2020 | 08 | 29 | 08:35 | 71.6 | 93.9 | 0 |
| 20200829T084000 | 2020 | 08 | 29 | 08:40 | 71.6 | 93.5 | 0 |
| 20200829T084500 | 2020 | 08 | 29 | 08:45 | 71.5 | 94 | 0 |
| 20200829T085000 | 2020 | 08 | 29 | 08:50 | 71.4 | 94.4 | 0 |
| 20200829T085500 | 2020 | 08 | 29 | 08:55 | 71.4 | 94.5 | 0 |
| 20200829T090000 | 2020 | 08 | 29 | 09:00 | 71.4 | 94.4 | 0 |
| 20200829T090500 | 2020 | 08 | 29 | 09:05 | 71.4 | 94.8 | 0 |
| 20200829T091000 | 2020 | 08 | 29 | 09:10 | 71.5 | 94.1 | 0 |
| 20200829T091500 | 2020 | 08 | 29 | 09:15 | 71.5 | 94.2 | 0 |
| 20200829T092000 | 2020 | 08 | 29 | 09:20 | 71.6 | 93.5 | 0 |
| 20200829T092500 | 2020 | 08 | 29 | 09:25 | 71.7 | 93.3 | 0 |
| 20200829T093000 | 2020 | 08 | 29 | 09:30 | 72 | 93.4 | 0 |
| 20200829T093500 | 2020 | 08 | 29 | 09:35 | 72.1 | 92.6 | 0 |
| 20200829T094000 | 2020 | 08 | 29 | 09:40 | 72.2 | 91.8 | 0 |
| 20200829T094500 | 2020 | 08 | 29 | 09:45 | 72.4 | 91 | 0 |
| 20200829T095000 | 2020 | 08 | 29 | 09:50 | 72.3 | 90.1 | 0 |
| 20200829T095500 | 2020 | 08 | 29 | 09:55 | 72.3 | 89 | 0 |
| 20200829T100000 | 2020 | 08 | 29 | 10:00 | 72.3 | 88.1 | 0 |
| 20200829T100500 | 2020 | 08 | 29 | 10:05 | 72.5 | 87.5 | 0 |
| 20200829T101000 | 2020 | 08 | 29 | 10:10 | 72.9 | 86 | 0 |
| 20200829T101500 | 2020 | 08 | 29 | 10:15 | 73.1 | 84 | 0 |
| 20200829T102000 | 2020 | 08 | 29 | 10:20 | 73.1 | 83.1 | 0 |
| 20200829T102500 | 2020 | 08 | 29 | 10:25 | 73.1 | 82.4 | 0 |
| 20200829T103000 | 2020 | 08 | 29 | 10:30 | 73 | 82.9 | 0 |
| 20200829T103500 | 2020 | 08 | 29 | 10:35 | 73.3 | 80.9 | 0 |
| 20200829T104000 | 2020 | 08 | 29 | 10:40 | 73.8 | 79.3 | 0 |
| 20200829T104500 | 2020 | 08 | 29 | 10:45 | 73.7 | 78 | 0 |
| 20200829T105000 | 2020 | 08 | 29 | 10:50 | 73.6 | 78.8 | 0 |
| 20200829T105500 | 2020 | 08 | 29 | 10:55 | 73.4 | 78.5 | 0 |
| 20200829T110000 | 2020 | 08 | 29 | 11:00 | 73.3 | 79.1 | 0 |
| 20200829T110500 | 2020 | 08 | 29 | 11:05 | 73.2 | 78.7 | 0 |
| 20200829T111000 | 2020 | 08 | 29 | 11:10 | 73 | 79.1 | 0 |
| 20200829T111500 | 2020 | 08 | 29 | 11:15 | 72.8 | 80.2 | 0 |
| 20200829T112000 | 2020 | 08 | 29 | 11:20 | 72.8 | 80 | 0 |
| 20200829T112500 | 2020 | 08 | 29 | 11:25 | 73 | 80.5 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200829T113000 | 2020 | 08 | 29 | 11:30 | 73.2 | 80.3 | 0 |
| 20200829T113500 | 2020 | 08 | 29 | 11:35 | 73.3 | 80 | 0 |
| 20200829T114000 | 2020 | 08 | 29 | 11:40 | 73.5 | 80 | 0 |
| 20200829T114500 | 2020 | 08 | 29 | 11:45 | 73.6 | 80 | 0 |
| 20200829T115000 | 2020 | 08 | 29 | 11:50 | 73.3 | 79.7 | 0 |
| 20200829T115500 | 2020 | 08 | 29 | 11:55 | 73.4 | 80.3 | 0 |
| 20200829T120000 | 2020 | 08 | 29 | 12:00 | 74.1 | 79 | 0 |
| 20200829T120500 | 2020 | 08 | 29 | 12:05 | 74.8 | 77.3 | 0 |
| 20200829T121000 | 2020 | 08 | 29 | 12:10 | 75.2 | 76.6 | 0 |
| 20200829T121500 | 2020 | 08 | 29 | 12:15 | 75.1 | 76.1 | 0 |
| 20200829T122000 | 2020 | 08 | 29 | 12:20 | 74.4 | 76.6 | 0 |
| 20200829T122500 | 2020 | 08 | 29 | 12:25 | 75.5 | 77.3 | 0 |
| 20200829T123000 | 2020 | 08 | 29 | 12:30 | 75 | 75.9 | 0 |
| 20200829T123500 | 2020 | 08 | 29 | 12:35 | 75.1 | 75.6 | 0 |
| 20200829T124000 | 2020 | 08 | 29 | 12:40 | 75 | 76 | 0 |
| 20200829T124500 | 2020 | 08 | 29 | 12:45 | 75.6 | 74.5 | 0 |
| 20200829T125000 | 2020 | 08 | 29 | 12:50 | 75.8 | 74.4 | 0 |
| 20200829T125500 | 2020 | 08 | 29 | 12:55 | 75.5 | 74.8 | 0 |
| 20200829T130000 | 2020 | 08 | 29 | 13:00 | 75.1 | 77.1 | 0 |
| 20200829T130500 | 2020 | 08 | 29 | 13:05 | 75.4 | 76.7 | 0 |
| 20200829T131000 | 2020 | 08 | 29 | 13:10 | 75 | 77.1 | 0 |
| 20200829T131500 | 2020 | 08 | 29 | 13:15 | 75.7 | 74.6 | 0 |
| 20200829T132000 | 2020 | 08 | 29 | 13:20 | 76.2 | 73.1 | 0 |
| 20200829T132500 | 2020 | 08 | 29 | 13:25 | 76.4 | 70.1 | 0 |
| 20200829T133000 | 2020 | 08 | 29 | 13:30 | 76.7 | 68.8 | 0 |
| 20200829T133500 | 2020 | 08 | 29 | 13:35 | 76.5 | 68 | 0 |
| 20200829T134000 | 2020 | 08 | 29 | 13:40 | 76.5 | 68.4 | 0 |
| 20200829T134500 | 2020 | 08 | 29 | 13:45 | 75.9 | 68.9 | 0 |
| 20200829T135000 | 2020 | 08 | 29 | 13:50 | 75.1 | 69.8 | 0 |
| 20200829T135500 | 2020 | 08 | 29 | 13:55 | 75 | 70.8 | 0 |
| 20200829T140000 | 2020 | 08 | 29 | 14:00 | 75.3 | 69.5 | 0 |
| 20200829T140500 | 2020 | 08 | 29 | 14:05 | 76 | 68.6 | 0 |
| 20200829T141000 | 2020 | 08 | 29 | 14:10 | 76.6 | 65.7 | 0 |
| 20200829T141500 | 2020 | 08 | 29 | 14:15 | 76.5 | 64.7 | 0 |
| 20200829T142000 | 2020 | 08 | 29 | 14:20 | 77.1 | 65.1 | 0 |
| 20200829T142500 | 2020 | 08 | 29 | 14:25 | 75.7 | 65.2 | 0 |
| 20200829T143000 | 2020 | 08 | 29 | 14:30 | 75.1 | 67.4 | 0 |
| 20200829T143500 | 2020 | 08 | 29 | 14:35 | 74.9 | 68.4 | 0 |
| 20200829T144000 | 2020 | 08 | 29 | 14:40 | 74.9 | 68.7 | 0 |
| 20200829T144500 | 2020 | 08 | 29 | 14:45 | 74.5 | 69.4 | 0 |
| 20200829T145000 | 2020 | 08 | 29 | 14:50 | 74.6 | 71.1 | 0 |
| 20200829T145500 | 2020 | 08 | 29 | 14:55 | 74.7 | 71 | 0 |
| 20200829T150000 | 2020 | 08 | 29 | 15:00 | 74.4 | 72.2 | 0 |
| 20200829T150500 | 2020 | 08 | 29 | 15:05 | 74.3 | 72.5 | 0 |
| 20200829T151000 | 2020 | 08 | 29 | 15:10 | 74.1 | 72.1 | 0 |
| 20200829T151500 | 2020 | 08 | 29 | 15:15 | 74.2 | 72.9 | 0 |
| 20200829T152000 | 2020 | 08 | 29 | 15:20 | 74.5 | 72.8 | 0 |
| 20200829T152500 | 2020 | 08 | 29 | 15:25 | 74.5 | 72.6 | 0 |
| 20200829T153000 | 2020 | 08 | 29 | 15:30 | 74.3 | 73.1 | 0 |
| 20200829T153500 | 2020 | 08 | 29 | 15:35 | 73.6 | 75.4 | 0 |
| 20200829T154000 | 2020 | 08 | 29 | 15:40 | 74.8 | 73 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200829T154500 | 2020 | 08 | 29 | 15:45 | 75 | 72.2 | 0 |
| 20200829T155000 | 2020 | 08 | 29 | 15:50 | 75.3 | 72.7 | 0 |
| 20200829T155500 | 2020 | 08 | 29 | 15:55 | 75 | 72.4 | 0 |
| 20200829T160000 | 2020 | 08 | 29 | 16:00 | 74.3 | 74.4 | 0 |
| 20200829T160500 | 2020 | 08 | 29 | 16:05 | 73.9 | 73.4 | 0 |
| 20200829T161000 | 2020 | 08 | 29 | 16:10 | 73.8 | 72 | 0 |
| 20200829T161500 | 2020 | 08 | 29 | 16:15 | 75.4 | 67.9 | 0 |
| 20200829T162000 | 2020 | 08 | 29 | 16:20 | 74.3 | 67.1 | 0 |
| 20200829T162500 | 2020 | 08 | 29 | 16:25 | 75.3 | 63.3 | 0 |
| 20200829T163000 | 2020 | 08 | 29 | 16:30 | 75.2 | 63.1 | 0 |
| 20200829T163500 | 2020 | 08 | 29 | 16:35 | 74.5 | 63.8 | 0 |
| 20200829T164000 | 2020 | 08 | 29 | 16:40 | 74.6 | 63.5 | 0 |
| 20200829T164500 | 2020 | 08 | 29 | 16:45 | 73.7 | 63.5 | 0 |
| 20200829T165000 | 2020 | 08 | 29 | 16:50 | 73.5 | 62.9 | 0 |
| 20200829T165500 | 2020 | 08 | 29 | 16:55 | 73.2 | 63.1 | 0 |
| 20200829T170000 | 2020 | 08 | 29 | 17:00 | 73.5 | 62.4 | 0 |
| 20200829T170500 | 2020 | 08 | 29 | 17:05 | 73.5 | 61.5 | 0 |
| 20200829T171000 | 2020 | 08 | 29 | 17:10 | 73.4 | 63.5 | 0 |
| 20200829T171500 | 2020 | 08 | 29 | 17:15 | 72.9 | 64.2 | 0 |
| 20200829T172000 | 2020 | 08 | 29 | 17:20 | 72.3 | 65.7 | 0 |
| 20200829T172500 | 2020 | 08 | 29 | 17:25 | 71.3 | 67.1 | 0 |
| 20200829T173000 | 2020 | 08 | 29 | 17:30 | 71.1 | 66.8 | 0 |
| 20200829T173500 | 2020 | 08 | 29 | 17:35 | 71.3 | 66.3 | 0 |
| 20200829T174000 | 2020 | 08 | 29 | 17:40 | 70.5 | 68.1 | 0 |
| 20200829T174500 | 2020 | 08 | 29 | 17:45 | 70.7 | 68.9 | 0 |
| 20200829T175000 | 2020 | 08 | 29 | 17:50 | 70.6 | 69.6 | 0 |
| 20200829T175500 | 2020 | 08 | 29 | 17:55 | 70.5 | 69.4 | 0 |
| 20200829T180000 | 2020 | 08 | 29 | 18:00 | 70.4 | 69.7 | 0 |
| 20200829T180500 | 2020 | 08 | 29 | 18:05 | 70.2 | 69.2 | 0 |
| 20200829T181000 | 2020 | 08 | 29 | 18:10 | 70 | 69.2 | 0 |
| 20200829T181500 | 2020 | 08 | 29 | 18:15 | 69.7 | 69.3 | 0 |
| 20200829T182000 | 2020 | 08 | 29 | 18:20 | 69.6 | 69.6 | 0 |
| 20200829T182500 | 2020 | 08 | 29 | 18:25 | 69.5 | 69.6 | 0 |
| 20200829T183000 | 2020 | 08 | 29 | 18:30 | 69.4 | 68.3 | 0 |
| 20200829T183500 | 2020 | 08 | 29 | 18:35 | 69.1 | 65.5 | 0 |
| 20200829T184000 | 2020 | 08 | 29 | 18:40 | 68.9 | 66.2 | 0 |
| 20200829T184500 | 2020 | 08 | 29 | 18:45 | 68.8 | 65.6 | 0 |
| 20200829T185000 | 2020 | 08 | 29 | 18:50 | 68.5 | 66.5 | 0 |
| 20200829T185500 | 2020 | 08 | 29 | 18:55 | 68.5 | 66 | 0 |
| 20200829T190000 | 2020 | 08 | 29 | 19:00 | 68.4 | 65.7 | 0 |
| 20200829T190500 | 2020 | 08 | 29 | 19:05 | 68.3 | 65.8 | 0 |
| 20200829T191000 | 2020 | 08 | 29 | 19:10 | 68.4 | 65.9 | 0 |
| 20200829T191500 | 2020 | 08 | 29 | 19:15 | 68.2 | 66.2 | 0 |
| 20200829T192000 | 2020 | 08 | 29 | 19:20 | 68 | 66.5 | 0 |
| 20200829T192500 | 2020 | 08 | 29 | 19:25 | 67.9 | 66.6 | 0 |
| 20200829T193000 | 2020 | 08 | 29 | 19:30 | 67.6 | 66.9 | 0 |
| 20200829T193500 | 2020 | 08 | 29 | 19:35 | 67.4 | 67.4 | 0 |
| 20200829T194000 | 2020 | 08 | 29 | 19:40 | 67.2 | 67.9 | 0 |
| 20200829T194500 | 2020 | 08 | 29 | 19:45 | 66.8 | 68.6 | 0 |
| 20200829T195000 | 2020 | 08 | 29 | 19:50 | 66.6 | 69.1 | 0 |
| 20200829T195500 | 2020 | 08 | 29 | 19:55 | 66.6 | 69.5 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200829T200000 | 2020 | 08 | 29 | 20:00 | 66.7 | 69.3 | 0 |
| 20200829T200500 | 2020 | 08 | 29 | 20:05 | 66.6 | 69.4 | 0 |
| 20200829T201000 | 2020 | 08 | 29 | 20:10 | 66.6 | 69.6 | 0 |
| 20200829T201500 | 2020 | 08 | 29 | 20:15 | 66.6 | 69.4 | 0 |
| 20200829T202000 | 2020 | 08 | 29 | 20:20 | 66.6 | 69.7 | 0 |
| 20200829T202500 | 2020 | 08 | 29 | 20:25 | 66.4 | 70.3 | 0 |
| 20200829T203000 | 2020 | 08 | 29 | 20:30 | 66.4 | 70.5 | 0 |
| 20200829T203500 | 2020 | 08 | 29 | 20:35 | 66.5 | 69.9 | 0 |
| 20200829T204000 | 2020 | 08 | 29 | 20:40 | 66.1 | 69.9 | 0 |
| 20200829T204500 | 2020 | 08 | 29 | 20:45 | 66 | 69.8 | 0 |
| 20200829T205000 | 2020 | 08 | 29 | 20:50 | 65.7 | 69.9 | 0 |
| 20200829T205500 | 2020 | 08 | 29 | 20:55 | 65.4 | 70.4 | 0 |
| 20200829T210000 | 2020 | 08 | 29 | 21:00 | 65.4 | 70.5 | 0 |
| 20200829T210500 | 2020 | 08 | 29 | 21:05 | 65.2 | 70.6 | 0 |
| 20200829T211000 | 2020 | 08 | 29 | 21:10 | 64.8 | 71.2 | 0 |
| 20200829T211500 | 2020 | 08 | 29 | 21:15 | 64.9 | 71.4 | 0 |
| 20200829T212000 | 2020 | 08 | 29 | 21:20 | 65 | 71 | 0 |
| 20200829T212500 | 2020 | 08 | 29 | 21:25 | 65 | 70.7 | 0 |
| 20200829T213000 | 2020 | 08 | 29 | 21:30 | 65.1 | 69.8 | 0 |
| 20200829T213500 | 2020 | 08 | 29 | 21:35 | 64.7 | 70.3 | 0 |
| 20200829T214000 | 2020 | 08 | 29 | 21:40 | 64.6 | 70.3 | 0 |
| 20200829T214500 | 2020 | 08 | 29 | 21:45 | 64.3 | 70.6 | 0 |
| 20200829T215000 | 2020 | 08 | 29 | 21:50 | 64.2 | 71.1 | 0 |
| 20200829T215500 | 2020 | 08 | 29 | 21:55 | 64 | 71.9 | 0 |
| 20200829T220000 | 2020 | 08 | 29 | 22:00 | 64.1 | 72 | 0 |
| 20200829T220500 | 2020 | 08 | 29 | 22:05 | 64.4 | 71.4 | 0 |
| 20200829T221000 | 2020 | 08 | 29 | 22:10 | 64.6 | 70.9 | 0 |
| 20200829T221500 | 2020 | 08 | 29 | 22:15 | 64.5 | 71.4 | 0 |
| 20200829T222000 | 2020 | 08 | 29 | 22:20 | 64.4 | 71.8 | 0 |
| 20200829T222500 | 2020 | 08 | 29 | 22:25 | 64.4 | 71.5 | 0 |
| 20200829T223000 | 2020 | 08 | 29 | 22:30 | 64.4 | 71.6 | 0 |
| 20200829T223500 | 2020 | 08 | 29 | 22:35 | 64.4 | 72.1 | 0 |
| 20200829T224000 | 2020 | 08 | 29 | 22:40 | 64.4 | 72.1 | 0 |
| 20200829T224500 | 2020 | 08 | 29 | 22:45 | 64.3 | 72.3 | 0 |
| 20200829T225000 | 2020 | 08 | 29 | 22:50 | 64.4 | 72.1 | 0 |
| 20200829T225500 | 2020 | 08 | 29 | 22:55 | 64.3 | 72.3 | 0 |
| 20200829T230000 | 2020 | 08 | 29 | 23:00 | 64.1 | 73.1 | 0 |
| 20200829T230500 | 2020 | 08 | 29 | 23:05 | 64.1 | 73.5 | 0 |
| 20200829T231000 | 2020 | 08 | 29 | 23:10 | 64.3 | 73.4 | 0 |
| 20200829T231500 | 2020 | 08 | 29 | 23:15 | 64.1 | 73.6 | 0 |
| 20200829T232000 | 2020 | 08 | 29 | 23:20 | 63.9 | 74.3 | 0 |
| 20200829T232500 | 2020 | 08 | 29 | 23:25 | 63.8 | 74.6 | 0 |
| 20200829T233000 | 2020 | 08 | 29 | 23:30 | 63.5 | 75.3 | 0 |
| 20200829T233500 | 2020 | 08 | 29 | 23:35 | 63.3 | 75.8 | 0 |
| 20200829T234000 | 2020 | 08 | 29 | 23:40 | 63.2 | 76.4 | 0 |
| 20200829T234500 | 2020 | 08 | 29 | 23:45 | 63.4 | 76 | 0 |
| 20200829T235000 | 2020 | 08 | 29 | 23:50 | 63.3 | 75.8 | 0 |
| 20200829T235500 | 2020 | 08 | 29 | 23:55 | 63.1 | 76.3 | 0 |
| 20200830T000000 | 2020 | 08 | 30 | 00:00 | 62.8 | 76.9 | 0 |
| 20200830T000500 | 2020 | 08 | 30 | 00:05 | 62.9 | 77.1 | 0 |
| 20200830T001000 | 2020 | 08 | 30 | 00:10 | 62.9 | 77 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200830T001500 | 2020 | 08 | 30 | 00:15 | 62.8 | 77.6 | 0 |
| 20200830T002000 | 2020 | 08 | 30 | 00:20 | 62.4 | 78.6 | 0 |
| 20200830T002500 | 2020 | 08 | 30 | 00:25 | 62.3 | 79.5 | 0 |
| 20200830T003000 | 2020 | 08 | 30 | 00:30 | 62.1 | 80.2 | 0 |
| 20200830T003500 | 2020 | 08 | 30 | 00:35 | 61.8 | 81 | 0 |
| 20200830T004000 | 2020 | 08 | 30 | 00:40 | 61.4 | 82.3 | 0 |
| 20200830T004500 | 2020 | 08 | 30 | 00:45 | 61.2 | 83.9 | 0 |
| 20200830T005000 | 2020 | 08 | 30 | 00:50 | 61.3 | 84 | 0 |
| 20200830T005500 | 2020 | 08 | 30 | 00:55 | 61.2 | 84.1 | 0 |
| 20200830T010000 | 2020 | 08 | 30 | 01:00 | 61 | 84.8 | 0 |
| 20200830T010500 | 2020 | 08 | 30 | 01:05 | 60.9 | 85.5 | 0 |
| 20200830T011000 | 2020 | 08 | 30 | 01:10 | 60.8 | 85.5 | 0 |
| 20200830T011500 | 2020 | 08 | 30 | 01:15 | 60.6 | 86 | 0 |
| 20200830T012000 | 2020 | 08 | 30 | 01:20 | 60.8 | 85.3 | 0 |
| 20200830T012500 | 2020 | 08 | 30 | 01:25 | 60.9 | 84.5 | 0 |
| 20200830T013000 | 2020 | 08 | 30 | 01:30 | 60.9 | 84.2 | 0 |
| 20200830T013500 | 2020 | 08 | 30 | 01:35 | 60.6 | 84.8 | 0 |
| 20200830T014000 | 2020 | 08 | 30 | 01:40 | 60.6 | 85.4 | 0 |
| 20200830T014500 | 2020 | 08 | 30 | 01:45 | 60.7 | 85.1 | 0 |
| 20200830T015000 | 2020 | 08 | 30 | 01:50 | 60.8 | 85 | 0 |
| 20200830T015500 | 2020 | 08 | 30 | 01:55 | 60.7 | 84.7 | 0 |
| 20200830T020000 | 2020 | 08 | 30 | 02:00 | 60.7 | 84.4 | 0 |
| 20200830T020500 | 2020 | 08 | 30 | 02:05 | 60.5 | 84.9 | 0 |
| 20200830T021000 | 2020 | 08 | 30 | 02:10 | 60.7 | 83.8 | 0 |
| 20200830T021500 | 2020 | 08 | 30 | 02:15 | 60.5 | 84.3 | 0 |
| 20200830T022000 | 2020 | 08 | 30 | 02:20 | 60.5 | 84.2 | 0 |
| 20200830T022500 | 2020 | 08 | 30 | 02:25 | 60.4 | 84.3 | 0 |
| 20200830T023000 | 2020 | 08 | 30 | 02:30 | 60.1 | 84.7 | 0 |
| 20200830T023500 | 2020 | 08 | 30 | 02:35 | 59.7 | 85.7 | 0 |
| 20200830T024000 | 2020 | 08 | 30 | 02:40 | 59.8 | 85.8 | 0 |
| 20200830T024500 | 2020 | 08 | 30 | 02:45 | 59.9 | 85.7 | 0 |
| 20200830T025000 | 2020 | 08 | 30 | 02:50 | 59.7 | 86.7 | 0 |
| 20200830T025500 | 2020 | 08 | 30 | 02:55 | 59.5 | 86.9 | 0 |
| 20200830T030000 | 2020 | 08 | 30 | 03:00 | 59.6 | 86.2 | 0 |
| 20200830T030500 | 2020 | 08 | 30 | 03:05 | 59.5 | 84.7 | 0 |
| 20200830T031000 | 2020 | 08 | 30 | 03:10 | 59.4 | 84.5 | 0 |
| 20200830T031500 | 2020 | 08 | 30 | 03:15 | 59.3 | 84.2 | 0 |
| 20200830T032000 | 2020 | 08 | 30 | 03:20 | 59.2 | 84.5 | 0 |
| 20200830T032500 | 2020 | 08 | 30 | 03:25 | 59 | 85.3 | 0 |
| 20200830T033000 | 2020 | 08 | 30 | 03:30 | 58.9 | 85.9 | 0 |
| 20200830T033500 | 2020 | 08 | 30 | 03:35 | 58.6 | 87.6 | 0 |
| 20200830T034000 | 2020 | 08 | 30 | 03:40 | 58.5 | 89.1 | 0 |
| 20200830T034500 | 2020 | 08 | 30 | 03:45 | 58.4 | 90.3 | 0 |
| 20200830T035000 | 2020 | 08 | 30 | 03:50 | 58.4 | 91.2 | 0 |
| 20200830T035500 | 2020 | 08 | 30 | 03:55 | 58.6 | 92.2 | 0 |
| 20200830T040000 | 2020 | 08 | 30 | 04:00 | 58.9 | 91.8 | 0 |
| 20200830T040500 | 2020 | 08 | 30 | 04:05 | 59.1 | 91.2 | 0 |
| 20200830T041000 | 2020 | 08 | 30 | 04:10 | 59.1 | 91.6 | 0 |
| 20200830T041500 | 2020 | 08 | 30 | 04:15 | 59.2 | 90.7 | 0 |
| 20200830T042000 | 2020 | 08 | 30 | 04:20 | 59.1 | 90.8 | 0 |
| 20200830T042500 | 2020 | 08 | 30 | 04:25 | 59 | 90.6 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200830T043000 | 2020 | 08 | 30 | 04:30 | 58.7 | 90.8 | 0 |
| 20200830T043500 | 2020 | 08 | 30 | 04:35 | 58.6 | 91.8 | 0 |
| 20200830T044000 | 2020 | 08 | 30 | 04:40 | 58.4 | 92.5 | 0 |
| 20200830T044500 | 2020 | 08 | 30 | 04:45 | 58.2 | 93.2 | 0 |
| 20200830T045000 | 2020 | 08 | 30 | 04:50 | 58.1 | 93.4 | 0 |
| 20200830T045500 | 2020 | 08 | 30 | 04:55 | 58.4 | 93 | 0 |
| 20200830T050000 | 2020 | 08 | 30 | 05:00 | 58.6 | 92.4 | 0 |
| 20200830T050500 | 2020 | 08 | 30 | 05:05 | 58.7 | 92.3 | 0 |
| 20200830T051000 | 2020 | 08 | 30 | 05:10 | 58.7 | 91.8 | 0 |
| 20200830T051500 | 2020 | 08 | 30 | 05:15 | 58.6 | 91.7 | 0 |
| 20200830T052000 | 2020 | 08 | 30 | 05:20 | 58.7 | 91.4 | 0 |
| 20200830T052500 | 2020 | 08 | 30 | 05:25 | 58.7 | 91.4 | 0 |
| 20200830T053000 | 2020 | 08 | 30 | 05:30 | 58.8 | 91.2 | 0 |
| 20200830T053500 | 2020 | 08 | 30 | 05:35 | 58.9 | 90.2 | 0 |
| 20200830T054000 | 2020 | 08 | 30 | 05:40 | 58.9 | 89.9 | 0 |
| 20200830T054500 | 2020 | 08 | 30 | 05:45 | 58.9 | 90.2 | 0 |
| 20200830T055000 | 2020 | 08 | 30 | 05:50 | 58.9 | 90.2 | 0 |
| 20200830T055500 | 2020 | 08 | 30 | 05:55 | 58.9 | 90.4 | 0 |
| 20200830T060000 | 2020 | 08 | 30 | 06:00 | 58.9 | 90.3 | 0 |
| 20200830T060500 | 2020 | 08 | 30 | 06:05 | 59 | 90 | 0 |
| 20200830T061000 | 2020 | 08 | 30 | 06:10 | 58.9 | 90.4 | 0 |
| 20200830T061500 | 2020 | 08 | 30 | 06:15 | 58.9 | 90.5 | 0 |
| 20200830T062000 | 2020 | 08 | 30 | 06:20 | 58.9 | 90.7 | 0 |
| 20200830T062500 | 2020 | 08 | 30 | 06:25 | 58.9 | 90.6 | 0 |
| 20200830T063000 | 2020 | 08 | 30 | 06:30 | 58.9 | 90.7 | 0 |
| 20200830T063500 | 2020 | 08 | 30 | 06:35 | 58.9 | 90.8 | 0 |
| 20200830T064000 | 2020 | 08 | 30 | 06:40 | 58.9 | 91 | 0 |
| 20200830T064500 | 2020 | 08 | 30 | 06:45 | 58.8 | 91.2 | 0 |
| 20200830T065000 | 2020 | 08 | 30 | 06:50 | 58.8 | 91.8 | 0.003 |
| 20200830T065500 | 2020 | 08 | 30 | 06:55 | 58.3 | 94.3 | 0.006 |
| 20200830T070000 | 2020 | 08 | 30 | 07:00 | 58.2 | 95.6 | 0 |
| 20200830T070500 | 2020 | 08 | 30 | 07:05 | 58.3 | 96 | 0 |
| 20200830T071000 | 2020 | 08 | 30 | 07:10 | 58.3 | 95.9 | 0 |
| 20200830T071500 | 2020 | 08 | 30 | 07:15 | 58.3 | 96 | 0 |
| 20200830T072000 | 2020 | 08 | 30 | 07:20 | 58.4 | 96.1 | 0 |
| 20200830T072500 | 2020 | 08 | 30 | 07:25 | 58.5 | 96.4 | 0 |
| 20200830T073000 | 2020 | 08 | 30 | 07:30 | 58.8 | 96.3 | 0 |
| 20200830T073500 | 2020 | 08 | 30 | 07:35 | 58.9 | 96.2 | 0 |
| 20200830T074000 | 2020 | 08 | 30 | 07:40 | 59 | 95.8 | 0 |
| 20200830T074500 | 2020 | 08 | 30 | 07:45 | 59.1 | 95.6 | 0 |
| 20200830T075000 | 2020 | 08 | 30 | 07:50 | 58.9 | 95.5 | 0 |
| 20200830T075500 | 2020 | 08 | 30 | 07:55 | 59 | 96.2 | 0 |
| 20200830T080000 | 2020 | 08 | 30 | 08:00 | 59.2 | 96.3 | 0 |
| 20200830T080500 | 2020 | 08 | 30 | 08:05 | 59.6 | 95.9 | 0 |
| 20200830T081000 | 2020 | 08 | 30 | 08:10 | 60.4 | 94.3 | 0 |
| 20200830T081500 | 2020 | 08 | 30 | 08:15 | 60.6 | 92.5 | 0 |
| 20200830T082000 | 2020 | 08 | 30 | 08:20 | 59.6 | 92.9 | 0 |
| 20200830T082500 | 2020 | 08 | 30 | 08:25 | 59.3 | 94.1 | 0 |
| 20200830T083000 | 2020 | 08 | 30 | 08:30 | 59.5 | 95.1 | 0 |
| 20200830T083500 | 2020 | 08 | 30 | 08:35 | 60.7 | 93.7 | 0 |
| 20200830T084000 | 2020 | 08 | 30 | 08:40 | 61.3 | 91.2 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200830T084500 | 2020 | 08 | 30 | 08:45 | 62 | 89.8 | 0 |
| 20200830T085000 | 2020 | 08 | 30 | 08:50 | 62 | 86.7 | 0 |
| 20200830T085500 | 2020 | 08 | 30 | 08:55 | 62.1 | 86 | 0 |
| 20200830T090000 | 2020 | 08 | 30 | 09:00 | 62.3 | 84.9 | 0 |
| 20200830T090500 | 2020 | 08 | 30 | 09:05 | 62.4 | 85.7 | 0 |
| 20200830T091000 | 2020 | 08 | 30 | 09:10 | 62.3 | 85.2 | 0 |
| 20200830T091500 | 2020 | 08 | 30 | 09:15 | 61.8 | 85.4 | 0 |
| 20200830T092000 | 2020 | 08 | 30 | 09:20 | 61.5 | 85.1 | 0 |
| 20200830T092500 | 2020 | 08 | 30 | 09:25 | 62.4 | 85.4 | 0 |
| 20200830T093000 | 2020 | 08 | 30 | 09:30 | 63.1 | 81.3 | 0 |
| 20200830T093500 | 2020 | 08 | 30 | 09:35 | 63 | 80.9 | 0 |
| 20200830T094000 | 2020 | 08 | 30 | 09:40 | 63.6 | 76.9 | 0 |
| 20200830T094500 | 2020 | 08 | 30 | 09:45 | 64.1 | 75.6 | 0 |
| 20200830T095000 | 2020 | 08 | 30 | 09:50 | 64.2 | 74.4 | 0 |
| 20200830T095500 | 2020 | 08 | 30 | 09:55 | 63.9 | 71.8 | 0 |
| 20200830T100000 | 2020 | 08 | 30 | 10:00 | 62.9 | 76.1 | 0 |
| 20200830T100500 | 2020 | 08 | 30 | 10:05 | 64.6 | 74.7 | 0 |
| 20200830T101000 | 2020 | 08 | 30 | 10:10 | 64.4 | 73 | 0 |
| 20200830T101500 | 2020 | 08 | 30 | 10:15 | 64.9 | 73.4 | 0 |
| 20200830T102000 | 2020 | 08 | 30 | 10:20 | 64.1 | 73.7 | 0 |
| 20200830T102500 | 2020 | 08 | 30 | 10:25 | 64.6 | 74.6 | 0 |
| 20200830T103000 | 2020 | 08 | 30 | 10:30 | 65 | 72.4 | 0 |
| 20200830T103500 | 2020 | 08 | 30 | 10:35 | 65.4 | 71.9 | 0 |
| 20200830T104000 | 2020 | 08 | 30 | 10:40 | 65.3 | 70.1 | 0 |
| 20200830T104500 | 2020 | 08 | 30 | 10:45 | 65.9 | 70.2 | 0 |
| 20200830T105000 | 2020 | 08 | 30 | 10:50 | 64.7 | 66.4 | 0 |
| 20200830T105500 | 2020 | 08 | 30 | 10:55 | 65.1 | 67.4 | 0 |
| 20200830T110000 | 2020 | 08 | 30 | 11:00 | 66.2 | 67.1 | 0 |
| 20200830T110500 | 2020 | 08 | 30 | 11:05 | 65.2 | 66.3 | 0 |
| 20200830T111000 | 2020 | 08 | 30 | 11:10 | 66.3 | 67 | 0 |
| 20200830T111500 | 2020 | 08 | 30 | 11:15 | 65.8 | 65.7 | 0 |
| 20200830T112000 | 2020 | 08 | 30 | 11:20 | 65.5 | 66.1 | 0 |
| 20200830T112500 | 2020 | 08 | 30 | 11:25 | 65 | 66.7 | 0 |
| 20200830T113000 | 2020 | 08 | 30 | 11:30 | 66.3 | 63.8 | 0 |
| 20200830T113500 | 2020 | 08 | 30 | 11:35 | 66.8 | 63.3 | 0 |
| 20200830T114000 | 2020 | 08 | 30 | 11:40 | 66.6 | 62.2 | 0 |
| 20200830T114500 | 2020 | 08 | 30 | 11:45 | 66.9 | 62.7 | 0 |
| 20200830T115000 | 2020 | 08 | 30 | 11:50 | 66 | 62.4 | 0 |
| 20200830T115500 | 2020 | 08 | 30 | 11:55 | 66.3 | 61.7 | 0 |
| 20200830T120000 | 2020 | 08 | 30 | 12:00 | 66.3 | 59.2 | 0 |
| 20200830T120500 | 2020 | 08 | 30 | 12:05 | 66.9 | 60.3 | 0 |
| 20200830T121000 | 2020 | 08 | 30 | 12:10 | 67.8 | 60.8 | 0 |
| 20200830T121500 | 2020 | 08 | 30 | 12:15 | 66.8 | 58.9 | 0 |
| 20200830T122000 | 2020 | 08 | 30 | 12:20 | 67.7 | 60.7 | 0 |
| 20200830T122500 | 2020 | 08 | 30 | 12:25 | 67.8 | 58.9 | 0 |
| 20200830T123000 | 2020 | 08 | 30 | 12:30 | 67.2 | 58.7 | 0 |
| 20200830T123500 | 2020 | 08 | 30 | 12:35 | 67.1 | 59.5 | 0 |
| 20200830T124000 | 2020 | 08 | 30 | 12:40 | 67.1 | 59.4 | 0 |
| 20200830T124500 | 2020 | 08 | 30 | 12:45 | 67.1 | 59.4 | 0 |
| 20200830T125000 | 2020 | 08 | 30 | 12:50 | 66.7 | 58.1 | 0 |
| 20200830T125500 | 2020 | 08 | 30 | 12:55 | 66.9 | 59.3 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200830T130000 | 2020 | 08 | 30 | 13:00 | 67 | 58.8 | 0 |
| 20200830T130500 | 2020 | 08 | 30 | 13:05 | 67.7 | 58.6 | 0 |
| 20200830T131000 | 2020 | 08 | 30 | 13:10 | 68.4 | 58.1 | 0 |
| 20200830T131500 | 2020 | 08 | 30 | 13:15 | 67.9 | 54 | 0 |
| 20200830T132000 | 2020 | 08 | 30 | 13:20 | 67.8 | 56.5 | 0 |
| 20200830T132500 | 2020 | 08 | 30 | 13:25 | 68.7 | 57.8 | 0 |
| 20200830T133000 | 2020 | 08 | 30 | 13:30 | 68.2 | 56.2 | 0.002 |
| 20200830T133500 | 2020 | 08 | 30 | 13:35 | 67.8 | 54.7 | 0 |
| 20200830T134000 | 2020 | 08 | 30 | 13:40 | 68.3 | 56 | 0 |
| 20200830T134500 | 2020 | 08 | 30 | 13:45 | 68.2 | 55.3 | 0 |
| 20200830T135000 | 2020 | 08 | 30 | 13:50 | 67.8 | 55.4 | 0 |
| 20200830T135500 | 2020 | 08 | 30 | 13:55 | 68.3 | 53.3 | 0 |
| 20200830T140000 | 2020 | 08 | 30 | 14:00 | 68.7 | 52.4 | 0 |
| 20200830T140500 | 2020 | 08 | 30 | 14:05 | 68.6 | 52.3 | 0 |
| 20200830T141000 | 2020 | 08 | 30 | 14:10 | 68.7 | 52.1 | 0 |
| 20200830T141500 | 2020 | 08 | 30 | 14:15 | 68.9 | 53 | 0 |
| 20200830T142000 | 2020 | 08 | 30 | 14:20 | 68.5 | 49.3 | 0 |
| 20200830T142500 | 2020 | 08 | 30 | 14:25 | 68.9 | 52.2 | 0 |
| 20200830T143000 | 2020 | 08 | 30 | 14:30 | 68.3 | 52.3 | 0 |
| 20200830T143500 | 2020 | 08 | 30 | 14:35 | 68.5 | 53 | 0 |
| 20200830T144000 | 2020 | 08 | 30 | 14:40 | 68.4 | 53.3 | 0 |
| 20200830T144500 | 2020 | 08 | 30 | 14:45 | 67.8 | 54.2 | 0 |
| 20200830T145000 | 2020 | 08 | 30 | 14:50 | 68.9 | 54.4 | 0 |
| 20200830T145500 | 2020 | 08 | 30 | 14:55 | 68.6 | 52.6 | 0 |
| 20200830T150000 | 2020 | 08 | 30 | 15:00 | 68.5 | 54.5 | 0 |
| 20200830T150500 | 2020 | 08 | 30 | 15:05 | 69.3 | 52.8 | 0 |
| 20200830T151000 | 2020 | 08 | 30 | 15:10 | 68.9 | 52.8 | 0 |
| 20200830T151500 | 2020 | 08 | 30 | 15:15 | 69.4 | 52.8 | 0 |
| 20200830T152000 | 2020 | 08 | 30 | 15:20 | 69.8 | 53.5 | 0 |
| 20200830T152500 | 2020 | 08 | 30 | 15:25 | 68.6 | 53.9 | 0 |
| 20200830T153000 | 2020 | 08 | 30 | 15:30 | 68.9 | 53.9 | 0 |
| 20200830T153500 | 2020 | 08 | 30 | 15:35 | 69.3 | 52.6 | 0 |
| 20200830T154000 | 2020 | 08 | 30 | 15:40 | 68.9 | 54 | 0 |
| 20200830T154500 | 2020 | 08 | 30 | 15:45 | 69.4 | 53.7 | 0 |
| 20200830T155000 | 2020 | 08 | 30 | 15:50 | 69.2 | 52.6 | 0 |
| 20200830T155500 | 2020 | 08 | 30 | 15:55 | 69.8 | 53.9 | 0 |
| 20200830T160000 | 2020 | 08 | 30 | 16:00 | 69.9 | 53.7 | 0 |
| 20200830T160500 | 2020 | 08 | 30 | 16:05 | 69.6 | 53.1 | 0 |
| 20200830T161000 | 2020 | 08 | 30 | 16:10 | 69.4 | 52.9 | 0 |
| 20200830T161500 | 2020 | 08 | 30 | 16:15 | 68.1 | 53.4 | 0 |
| 20200830T162000 | 2020 | 08 | 30 | 16:20 | 67.7 | 54.1 | 0 |
| 20200830T162500 | 2020 | 08 | 30 | 16:25 | 68.2 | 54.4 | 0 |
| 20200830T163000 | 2020 | 08 | 30 | 16:30 | 67.7 | 53.7 | 0 |
| 20200830T163500 | 2020 | 08 | 30 | 16:35 | 68.1 | 54.1 | 0 |
| 20200830T164000 | 2020 | 08 | 30 | 16:40 | 68.2 | 54.1 | 0 |
| 20200830T164500 | 2020 | 08 | 30 | 16:45 | 68.5 | 53.7 | 0 |
| 20200830T165000 | 2020 | 08 | 30 | 16:50 | 69.2 | 52.2 | 0 |
| 20200830T165500 | 2020 | 08 | 30 | 16:55 | 68.5 | 51.7 | 0 |
| 20200830T170000 | 2020 | 08 | 30 | 17:00 | 68.7 | 51.5 | 0 |
| 20200830T170500 | 2020 | 08 | 30 | 17:05 | 69 | 52.7 | 0 |
| 20200830T171000 | 2020 | 08 | 30 | 17:10 | 69.4 | 52 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200830T171500 | 2020 | 08 | 30 | 17:15 | 68.2 | 52.4 | 0 |
| 20200830T172000 | 2020 | 08 | 30 | 17:20 | 68.2 | 53.2 | 0 |
| 20200830T172500 | 2020 | 08 | 30 | 17:25 | 67.7 | 53.2 | 0 |
| 20200830T173000 | 2020 | 08 | 30 | 17:30 | 68 | 54 | 0 |
| 20200830T173500 | 2020 | 08 | 30 | 17:35 | 68.8 | 52.7 | 0 |
| 20200830T174000 | 2020 | 08 | 30 | 17:40 | 69 | 52.3 | 0 |
| 20200830T174500 | 2020 | 08 | 30 | 17:45 | 68.4 | 51.5 | 0 |
| 20200830T175000 | 2020 | 08 | 30 | 17:50 | 68.3 | 52 | 0 |
| 20200830T175500 | 2020 | 08 | 30 | 17:55 | 68.4 | 52.3 | 0 |
| 20200830T180000 | 2020 | 08 | 30 | 18:00 | 68.6 | 51.9 | 0 |
| 20200830T180500 | 2020 | 08 | 30 | 18:05 | 68.2 | 51.7 | 0 |
| 20200830T181000 | 2020 | 08 | 30 | 18:10 | 68.2 | 51.9 | 0 |
| 20200830T181500 | 2020 | 08 | 30 | 18:15 | 68 | 51.8 | 0 |
| 20200830T182000 | 2020 | 08 | 30 | 18:20 | 68 | 50.7 | 0 |
| 20200830T182500 | 2020 | 08 | 30 | 18:25 | 68 | 49.2 | 0 |
| 20200830T183000 | 2020 | 08 | 30 | 18:30 | 67.9 | 51 | 0 |
| 20200830T183500 | 2020 | 08 | 30 | 18:35 | 67.7 | 49.3 | 0 |
| 20200830T184000 | 2020 | 08 | 30 | 18:40 | 67.9 | 51.7 | 0 |
| 20200830T184500 | 2020 | 08 | 30 | 18:45 | 67.6 | 50.5 | 0 |
| 20200830T185000 | 2020 | 08 | 30 | 18:50 | 67.4 | 50.6 | 0 |
| 20200830T185500 | 2020 | 08 | 30 | 18:55 | 67.3 | 51.2 | 0 |
| 20200830T190000 | 2020 | 08 | 30 | 19:00 | 67 | 50.6 | 0 |
| 20200830T190500 | 2020 | 08 | 30 | 19:05 | 66.9 | 50.4 | 0 |
| 20200830T191000 | 2020 | 08 | 30 | 19:10 | 66.7 | 52 | 0 |
| 20200830T191500 | 2020 | 08 | 30 | 19:15 | 66.4 | 53.3 | 0 |
| 20200830T192000 | 2020 | 08 | 30 | 19:20 | 66.1 | 54 | 0 |
| 20200830T192500 | 2020 | 08 | 30 | 19:25 | 65.9 | 54.7 | 0 |
| 20200830T193000 | 2020 | 08 | 30 | 19:30 | 65.6 | 56.2 | 0 |
| 20200830T193500 | 2020 | 08 | 30 | 19:35 | 65.1 | 57.4 | 0 |
| 20200830T194000 | 2020 | 08 | 30 | 19:40 | 64.7 | 58.1 | 0 |
| 20200830T194500 | 2020 | 08 | 30 | 19:45 | 63.8 | 61.2 | 0 |
| 20200830T195000 | 2020 | 08 | 30 | 19:50 | 63.2 | 63.5 | 0 |
| 20200830T195500 | 2020 | 08 | 30 | 19:55 | 63 | 64.7 | 0 |
| 20200830T200000 | 2020 | 08 | 30 | 20:00 | 63 | 64.5 | 0 |
| 20200830T200500 | 2020 | 08 | 30 | 20:05 | 63.4 | 61.3 | 0 |
| 20200830T201000 | 2020 | 08 | 30 | 20:10 | 64 | 59.4 | 0 |
| 20200830T201500 | 2020 | 08 | 30 | 20:15 | 63.8 | 60.5 | 0 |
| 20200830T202000 | 2020 | 08 | 30 | 20:20 | 63.6 | 61.4 | 0 |
| 20200830T202500 | 2020 | 08 | 30 | 20:25 | 63.6 | 61.7 | 0 |
| 20200830T203000 | 2020 | 08 | 30 | 20:30 | 62.8 | 63 | 0 |
| 20200830T203500 | 2020 | 08 | 30 | 20:35 | 61.2 | 65.9 | 0 |
| 20200830T204000 | 2020 | 08 | 30 | 20:40 | 61.7 | 67.1 | 0 |
| 20200830T204500 | 2020 | 08 | 30 | 20:45 | 61.9 | 67.5 | 0 |
| 20200830T205000 | 2020 | 08 | 30 | 20:50 | 62.3 | 67 | 0 |
| 20200830T205500 | 2020 | 08 | 30 | 20:55 | 61.6 | 66.9 | 0 |
| 20200830T210000 | 2020 | 08 | 30 | 21:00 | 61.3 | 67.9 | 0 |
| 20200830T210500 | 2020 | 08 | 30 | 21:05 | 61.3 | 69.3 | 0 |
| 20200830T211000 | 2020 | 08 | 30 | 21:10 | 61.4 | 69.1 | 0 |
| 20200830T211500 | 2020 | 08 | 30 | 21:15 | 61.8 | 66.8 | 0 |
| 20200830T212000 | 2020 | 08 | 30 | 21:20 | 61.4 | 67.5 | 0 |
| 20200830T212500 | 2020 | 08 | 30 | 21:25 | 61.3 | 69 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200830T213000 | 2020 | 08 | 30 | 21:30 | 61.6 | 69.8 | 0 |
| 20200830T213500 | 2020 | 08 | 30 | 21:35 | 61.7 | 69.4 | 0 |
| 20200830T214000 | 2020 | 08 | 30 | 21:40 | 61.2 | 69.2 | 0 |
| 20200830T214500 | 2020 | 08 | 30 | 21:45 | 60.2 | 71.1 | 0 |
| 20200830T215000 | 2020 | 08 | 30 | 21:50 | 60.2 | 72.2 | 0 |
| 20200830T215500 | 2020 | 08 | 30 | 21:55 | 59.8 | 73 | 0 |
| 20200830T220000 | 2020 | 08 | 30 | 22:00 | 58.8 | 75.2 | 0 |
| 20200830T220500 | 2020 | 08 | 30 | 22:05 | 59.2 | 76.5 | 0 |
| 20200830T221000 | 2020 | 08 | 30 | 22:10 | 60.5 | 74.6 | 0 |
| 20200830T221500 | 2020 | 08 | 30 | 22:15 | 60.2 | 73.1 | 0 |
| 20200830T222000 | 2020 | 08 | 30 | 22:20 | 59.9 | 74.5 | 0 |
| 20200830T222500 | 2020 | 08 | 30 | 22:25 | 60.3 | 73.7 | 0 |
| 20200830T223000 | 2020 | 08 | 30 | 22:30 | 60.1 | 73.1 | 0 |
| 20200830T223500 | 2020 | 08 | 30 | 22:35 | 60.8 | 72.3 | 0 |
| 20200830T224000 | 2020 | 08 | 30 | 22:40 | 60 | 72.8 | 0 |
| 20200830T224500 | 2020 | 08 | 30 | 22:45 | 58.9 | 74.9 | 0 |
| 20200830T225000 | 2020 | 08 | 30 | 22:50 | 58.7 | 75.5 | 0 |
| 20200830T225500 | 2020 | 08 | 30 | 22:55 | 58.7 | 76 | 0 |
| 20200830T230000 | 2020 | 08 | 30 | 23:00 | 58.8 | 76.3 | 0 |
| 20200830T230500 | 2020 | 08 | 30 | 23:05 | 58.9 | 76.2 | 0 |
| 20200830T231000 | 2020 | 08 | 30 | 23:10 | 58.7 | 76.4 | 0 |
| 20200830T231500 | 2020 | 08 | 30 | 23:15 | 58.4 | 78.5 | 0 |
| 20200830T232000 | 2020 | 08 | 30 | 23:20 | 58.3 | 79.5 | 0 |
| 20200830T232500 | 2020 | 08 | 30 | 23:25 | 58.4 | 79.4 | 0 |
| 20200830T233000 | 2020 | 08 | 30 | 23:30 | 58.4 | 78.6 | 0 |
| 20200830T233500 | 2020 | 08 | 30 | 23:35 | 58.3 | 79.2 | 0 |
| 20200830T234000 | 2020 | 08 | 30 | 23:40 | 58.3 | 80.1 | 0 |
| 20200830T234500 | 2020 | 08 | 30 | 23:45 | 58 | 79.8 | 0 |
| 20200830T235000 | 2020 | 08 | 30 | 23:50 | 57.9 | 79.6 | 0 |
| 20200830T235500 | 2020 | 08 | 30 | 23:55 | 58 | 78.8 | 0 |
| 20200831T000000 | 2020 | 08 | 31 | 00:00 | 57.4 | 79.6 | 0 |
| 20200831T000500 | 2020 | 08 | 31 | 00:05 | 57.4 | 80.9 | 0 |
| 20200831T001000 | 2020 | 08 | 31 | 00:10 | 57.5 | 80.5 | 0 |
| 20200831T001500 | 2020 | 08 | 31 | 00:15 | 56.8 | 80.9 | 0 |
| 20200831T002000 | 2020 | 08 | 31 | 00:20 | 56.8 | 82.2 | 0 |
| 20200831T002500 | 2020 | 08 | 31 | 00:25 | 57.6 | 80.6 | 0 |
| 20200831T003000 | 2020 | 08 | 31 | 00:30 | 57.2 | 80.3 | 0 |
| 20200831T003500 | 2020 | 08 | 31 | 00:35 | 56.7 | 82.8 | 0 |
| 20200831T004000 | 2020 | 08 | 31 | 00:40 | 56.9 | 82.2 | 0 |
| 20200831T004500 | 2020 | 08 | 31 | 00:45 | 56.6 | 83.1 | 0 |
| 20200831T005000 | 2020 | 08 | 31 | 00:50 | 56.5 | 83 | 0 |
| 20200831T005500 | 2020 | 08 | 31 | 00:55 | 56 | 83.8 | 0 |
| 20200831T010000 | 2020 | 08 | 31 | 01:00 | 55.7 | 86 | 0 |
| 20200831T010500 | 2020 | 08 | 31 | 01:05 | 55.8 | 86 | 0 |
| 20200831T011000 | 2020 | 08 | 31 | 01:10 | 56.2 | 84.8 | 0 |
| 20200831T011500 | 2020 | 08 | 31 | 01:15 | 56.2 | 83.8 | 0 |
| 20200831T012000 | 2020 | 08 | 31 | 01:20 | 55.8 | 85.7 | 0 |
| 20200831T012500 | 2020 | 08 | 31 | 01:25 | 55.6 | 86 | 0 |
| 20200831T013000 | 2020 | 08 | 31 | 01:30 | 55.5 | 86.3 | 0 |
| 20200831T013500 | 2020 | 08 | 31 | 01:35 | 55.4 | 86.3 | 0 |
| 20200831T014000 | 2020 | 08 | 31 | 01:40 | 55.5 | 87.4 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200831T014500 | 2020 | 08 | 31 | 01:45 | 55.1 | 88.9 | 0 |
| 20200831T015000 | 2020 | 08 | 31 | 01:50 | 55.7 | 89.6 | 0 |
| 20200831T015500 | 2020 | 08 | 31 | 01:55 | 55.6 | 87.7 | 0 |
| 20200831T020000 | 2020 | 08 | 31 | 02:00 | 54.6 | 89.4 | 0 |
| 20200831T020500 | 2020 | 08 | 31 | 02:05 | 54.6 | 90.1 | 0 |
| 20200831T021000 | 2020 | 08 | 31 | 02:10 | 54.8 | 88.9 | 0 |
| 20200831T021500 | 2020 | 08 | 31 | 02:15 | 55.1 | 88.5 | 0 |
| 20200831T022000 | 2020 | 08 | 31 | 02:20 | 55 | 88.2 | 0 |
| 20200831T022500 | 2020 | 08 | 31 | 02:25 | 54.6 | 88.5 | 0 |
| 20200831T023000 | 2020 | 08 | 31 | 02:30 | 54.4 | 90.1 | 0 |
| 20200831T023500 | 2020 | 08 | 31 | 02:35 | 54.7 | 89.6 | 0 |
| 20200831T024000 | 2020 | 08 | 31 | 02:40 | 54.9 | 87.4 | 0 |
| 20200831T024500 | 2020 | 08 | 31 | 02:45 | 54.9 | 87.2 | 0 |
| 20200831T025000 | 2020 | 08 | 31 | 02:50 | 55.4 | 86 | 0 |
| 20200831T025500 | 2020 | 08 | 31 | 02:55 | 55.2 | 86.3 | 0 |
| 20200831T030000 | 2020 | 08 | 31 | 03:00 | 55.3 | 86.4 | 0 |
| 20200831T030500 | 2020 | 08 | 31 | 03:05 | 55.4 | 85 | 0 |
| 20200831T031000 | 2020 | 08 | 31 | 03:10 | 55.4 | 85.1 | 0 |
| 20200831T031500 | 2020 | 08 | 31 | 03:15 | 55.4 | 84.7 | 0 |
| 20200831T032000 | 2020 | 08 | 31 | 03:20 | 55.5 | 84.5 | 0 |
| 20200831T032500 | 2020 | 08 | 31 | 03:25 | 55.5 | 84.4 | 0 |
| 20200831T033000 | 2020 | 08 | 31 | 03:30 | 55.5 | 84.7 | 0 |
| 20200831T033500 | 2020 | 08 | 31 | 03:35 | 55.4 | 84.4 | 0 |
| 20200831T034000 | 2020 | 08 | 31 | 03:40 | 55.1 | 85.3 | 0 |
| 20200831T034500 | 2020 | 08 | 31 | 03:45 | 55 | 87 | 0 |
| 20200831T035000 | 2020 | 08 | 31 | 03:50 | 54.7 | 88.1 | 0 |
| 20200831T035500 | 2020 | 08 | 31 | 03:55 | 54.8 | 88.2 | 0 |
| 20200831T040000 | 2020 | 08 | 31 | 04:00 | 54.8 | 87.6 | 0 |
| 20200831T040500 | 2020 | 08 | 31 | 04:05 | 54.9 | 87 | 0 |
| 20200831T041000 | 2020 | 08 | 31 | 04:10 | 54.8 | 86.6 | 0 |
| 20200831T041500 | 2020 | 08 | 31 | 04:15 | 54.5 | 86.8 | 0 |
| 20200831T042000 | 2020 | 08 | 31 | 04:20 | 54.3 | 87.4 | 0 |
| 20200831T042500 | 2020 | 08 | 31 | 04:25 | 54.7 | 86.5 | 0 |
| 20200831T043000 | 2020 | 08 | 31 | 04:30 | 54.7 | 86.6 | 0 |
| 20200831T043500 | 2020 | 08 | 31 | 04:35 | 54.5 | 87.9 | 0 |
| 20200831T044000 | 2020 | 08 | 31 | 04:40 | 54 | 89 | 0 |
| 20200831T044500 | 2020 | 08 | 31 | 04:45 | 53.8 | 89.8 | 0 |
| 20200831T045000 | 2020 | 08 | 31 | 04:50 | 53.6 | 90.2 | 0 |
| 20200831T045500 | 2020 | 08 | 31 | 04:55 | 53.7 | 90.5 | 0 |
| 20200831T050000 | 2020 | 08 | 31 | 05:00 | 53.7 | 90.3 | 0 |
| 20200831T050500 | 2020 | 08 | 31 | 05:05 | 53.6 | 90.7 | 0 |
| 20200831T051000 | 2020 | 08 | 31 | 05:10 | 53.7 | 90.7 | 0 |
| 20200831T051500 | 2020 | 08 | 31 | 05:15 | 54 | 89.6 | 0 |
| 20200831T052000 | 2020 | 08 | 31 | 05:20 | 54.1 | 88.6 | 0 |
| 20200831T052500 | 2020 | 08 | 31 | 05:25 | 53.9 | 88.7 | 0 |
| 20200831T053000 | 2020 | 08 | 31 | 05:30 | 53.9 | 88.9 | 0 |
| 20200831T053500 | 2020 | 08 | 31 | 05:35 | 53.5 | 89.9 | 0 |
| 20200831T054000 | 2020 | 08 | 31 | 05:40 | 53.6 | 90.8 | 0 |
| 20200831T054500 | 2020 | 08 | 31 | 05:45 | 53.5 | 91.3 | 0 |
| 20200831T055000 | 2020 | 08 | 31 | 05:50 | 52.9 | 92.3 | 0 |
| 20200831T055500 | 2020 | 08 | 31 | 05:55 | 52.8 | 93.4 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200831T060000 | 2020 | 08 | 31 | 06:00 | 52.6 | 93.6 | 0 |
| 20200831T060500 | 2020 | 08 | 31 | 06:05 | 52.5 | 94.4 | 0 |
| 20200831T061000 | 2020 | 08 | 31 | 06:10 | 52.5 | 95.1 | 0 |
| 20200831T061500 | 2020 | 08 | 31 | 06:15 | 52.3 | 95 | 0 |
| 20200831T062000 | 2020 | 08 | 31 | 06:20 | 52.2 | 95.2 | 0 |
| 20200831T062500 | 2020 | 08 | 31 | 06:25 | 52.1 | 95.8 | 0 |
| 20200831T063000 | 2020 | 08 | 31 | 06:30 | 51.8 | 95.9 | 0 |
| 20200831T063500 | 2020 | 08 | 31 | 06:35 | 51.6 | 96.3 | 0 |
| 20200831T064000 | 2020 | 08 | 31 | 06:40 | 51.6 | 96.4 | 0 |
| 20200831T064500 | 2020 | 08 | 31 | 06:45 | 51.4 | 96.8 | 0 |
| 20200831T065000 | 2020 | 08 | 31 | 06:50 | 51.4 | 97.4 | 0 |
| 20200831T065500 | 2020 | 08 | 31 | 06:55 | 51.5 | 97.5 | 0 |
| 20200831T070000 | 2020 | 08 | 31 | 07:00 | 51.6 | 97.3 | 0 |
| 20200831T070500 | 2020 | 08 | 31 | 07:05 | 51.6 | 97.1 | 0 |
| 20200831T071000 | 2020 | 08 | 31 | 07:10 | 51.7 | 97 | 0 |
| 20200831T071500 | 2020 | 08 | 31 | 07:15 | 51.9 | 96.4 | 0 |
| 20200831T072000 | 2020 | 08 | 31 | 07:20 | 52.1 | 94.9 | 0 |
| 20200831T072500 | 2020 | 08 | 31 | 07:25 | 52.4 | 93.9 | 0 |
| 20200831T073000 | 2020 | 08 | 31 | 07:30 | 52.7 | 93 | 0 |
| 20200831T073500 | 2020 | 08 | 31 | 07:35 | 53.1 | 92.4 | 0 |
| 20200831T074000 | 2020 | 08 | 31 | 07:40 | 53.4 | 91.5 | 0 |
| 20200831T074500 | 2020 | 08 | 31 | 07:45 | 53.8 | 90.8 | 0 |
| 20200831T075000 | 2020 | 08 | 31 | 07:50 | 54.2 | 89.8 | 0 |
| 20200831T075500 | 2020 | 08 | 31 | 07:55 | 54.6 | 88.6 | 0 |
| 20200831T080000 | 2020 | 08 | 31 | 08:00 | 54.9 | 89.3 | 0 |
| 20200831T080500 | 2020 | 08 | 31 | 08:05 | 55.5 | 89.1 | 0 |
| 20200831T081000 | 2020 | 08 | 31 | 08:10 | 56.4 | 88.3 | 0 |
| 20200831T081500 | 2020 | 08 | 31 | 08:15 | 56.9 | 86.2 | 0 |
| 20200831T082000 | 2020 | 08 | 31 | 08:20 | 57.7 | 85.3 | 0 |
| 20200831T082500 | 2020 | 08 | 31 | 08:25 | 58.3 | 83.4 | 0 |
| 20200831T083000 | 2020 | 08 | 31 | 08:30 | 58.5 | 82.3 | 0 |
| 20200831T083500 | 2020 | 08 | 31 | 08:35 | 59.1 | 81.8 | 0 |
| 20200831T084000 | 2020 | 08 | 31 | 08:40 | 59.4 | 81.7 | 0 |
| 20200831T084500 | 2020 | 08 | 31 | 08:45 | 60 | 80.8 | 0 |
| 20200831T085000 | 2020 | 08 | 31 | 08:50 | 60.4 | 79.1 | 0 |
| 20200831T085500 | 2020 | 08 | 31 | 08:55 | 60.7 | 79.3 | 0 |
| 20200831T090000 | 2020 | 08 | 31 | 09:00 | 61.1 | 78.5 | 0 |
| 20200831T090500 | 2020 | 08 | 31 | 09:05 | 61.7 | 77.4 | 0 |
| 20200831T091000 | 2020 | 08 | 31 | 09:10 | 62 | 75.5 | 0 |
| 20200831T091500 | 2020 | 08 | 31 | 09:15 | 62.2 | 75.1 | 0 |
| 20200831T092000 | 2020 | 08 | 31 | 09:20 | 62.8 | 74.7 | 0 |
| 20200831T092500 | 2020 | 08 | 31 | 09:25 | 63.2 | 74.4 | 0 |
| 20200831T093000 | 2020 | 08 | 31 | 09:30 | 63.5 | 72.5 | 0 |
| 20200831T093500 | 2020 | 08 | 31 | 09:35 | 64.1 | 71.1 | 0 |
| 20200831T094000 | 2020 | 08 | 31 | 09:40 | 64.2 | 68.9 | 0 |
| 20200831T094500 | 2020 | 08 | 31 | 09:45 | 65.2 | 68.2 | 0 |
| 20200831T095000 | 2020 | 08 | 31 | 09:50 | 65.4 | 66.7 | 0 |
| 20200831T095500 | 2020 | 08 | 31 | 09:55 | 65.6 | 65.9 | 0 |
| 20200831T100000 | 2020 | 08 | 31 | 10:00 | 65.6 | 64.7 | 0 |
| 20200831T100500 | 2020 | 08 | 31 | 10:05 | 66 | 64.2 | 0 |
| 20200831T101000 | 2020 | 08 | 31 | 10:10 | 66.2 | 63.8 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200831T101500 | 2020 | 08 | 31 | 10:15 | 67.2 | 64.7 | 0 |
| 20200831T102000 | 2020 | 08 | 31 | 10:20 | 67.3 | 61.8 | 0 |
| 20200831T102500 | 2020 | 08 | 31 | 10:25 | 67.3 | 62.6 | 0 |
| 20200831T103000 | 2020 | 08 | 31 | 10:30 | 67.1 | 60.7 | 0 |
| 20200831T103500 | 2020 | 08 | 31 | 10:35 | 67.6 | 55.5 | 0 |
| 20200831T104000 | 2020 | 08 | 31 | 10:40 | 67.1 | 55.3 | 0 |
| 20200831T104500 | 2020 | 08 | 31 | 10:45 | 67.6 | 56.1 | 0 |
| 20200831T105000 | 2020 | 08 | 31 | 10:50 | 68.8 | 57.6 | 0 |
| 20200831T105500 | 2020 | 08 | 31 | 10:55 | 68.9 | 56.1 | 0 |
| 20200831T110000 | 2020 | 08 | 31 | 11:00 | 68.8 | 54.6 | 0 |
| 20200831T110500 | 2020 | 08 | 31 | 11:05 | 69 | 55.1 | 0 |
| 20200831T111000 | 2020 | 08 | 31 | 11:10 | 69.2 | 55.1 | 0 |
| 20200831T111500 | 2020 | 08 | 31 | 11:15 | 69.6 | 54.5 | 0 |
| 20200831T112000 | 2020 | 08 | 31 | 11:20 | 69.4 | 53.5 | 0 |
| 20200831T112500 | 2020 | 08 | 31 | 11:25 | 70.4 | 55 | 0 |
| 20200831T113000 | 2020 | 08 | 31 | 11:30 | 70.3 | 54.3 | 0 |
| 20200831T113500 | 2020 | 08 | 31 | 11:35 | 70.6 | 55.4 | 0 |
| 20200831T114000 | 2020 | 08 | 31 | 11:40 | 70.7 | 54.6 | 0 |
| 20200831T114500 | 2020 | 08 | 31 | 11:45 | 70.6 | 53.3 | 0 |
| 20200831T115000 | 2020 | 08 | 31 | 11:50 | 70.9 | 54 | 0 |
| 20200831T115500 | 2020 | 08 | 31 | 11:55 | 71.4 | 54 | 0 |
| 20200831T120000 | 2020 | 08 | 31 | 12:00 | 71.3 | 53.9 | 0 |
| 20200831T120500 | 2020 | 08 | 31 | 12:05 | 71.4 | 54.1 | 0 |
| 20200831T121000 | 2020 | 08 | 31 | 12:10 | 71.2 | 54.8 | 0 |
| 20200831T121500 | 2020 | 08 | 31 | 12:15 | 71.5 | 54.3 | 0 |
| 20200831T122000 | 2020 | 08 | 31 | 12:20 | 71.6 | 55.3 | 0 |
| 20200831T122500 | 2020 | 08 | 31 | 12:25 | 71.6 | 54.6 | 0 |
| 20200831T123000 | 2020 | 08 | 31 | 12:30 | 72.2 | 55.6 | 0 |
| 20200831T123500 | 2020 | 08 | 31 | 12:35 | 72.5 | 55.7 | 0 |
| 20200831T124000 | 2020 | 08 | 31 | 12:40 | 72.3 | 54.7 | 0 |
| 20200831T124500 | 2020 | 08 | 31 | 12:45 | 72 | 55.3 | 0 |
| 20200831T125000 | 2020 | 08 | 31 | 12:50 | 72.7 | 55.9 | 0 |
| 20200831T125500 | 2020 | 08 | 31 | 12:55 | 72.8 | 55.3 | 0 |
| 20200831T130000 | 2020 | 08 | 31 | 13:00 | 73.4 | 55.4 | 0 |
| 20200831T130500 | 2020 | 08 | 31 | 13:05 | 73.8 | 54.3 | 0 |
| 20200831T131000 | 2020 | 08 | 31 | 13:10 | 73.5 | 54.4 | 0 |
| 20200831T131500 | 2020 | 08 | 31 | 13:15 | 74.1 | 54.4 | 0 |
| 20200831T132000 | 2020 | 08 | 31 | 13:20 | 73.6 | 53.7 | 0 |
| 20200831T132500 | 2020 | 08 | 31 | 13:25 | 73.9 | 53.2 | 0 |
| 20200831T133000 | 2020 | 08 | 31 | 13:30 | 73.9 | 53.8 | 0 |
| 20200831T133500 | 2020 | 08 | 31 | 13:35 | 74.1 | 53.4 | 0 |
| 20200831T134000 | 2020 | 08 | 31 | 13:40 | 74.6 | 52.7 | 0 |
| 20200831T134500 | 2020 | 08 | 31 | 13:45 | 75.6 | 54.2 | 0 |
| 20200831T135000 | 2020 | 08 | 31 | 13:50 | 75.4 | 51.3 | 0 |
| 20200831T135500 | 2020 | 08 | 31 | 13:55 | 75.1 | 51.3 | 0 |
| 20200831T140000 | 2020 | 08 | 31 | 14:00 | 74.4 | 51.4 | 0 |
| 20200831T140500 | 2020 | 08 | 31 | 14:05 | 75.3 | 52.3 | 0 |
| 20200831T141000 | 2020 | 08 | 31 | 14:10 | 75 | 52.2 | 0 |
| 20200831T141500 | 2020 | 08 | 31 | 14:15 | 74.8 | 51.6 | 0 |
| 20200831T142000 | 2020 | 08 | 31 | 14:20 | 75.8 | 53.1 | 0 |
| 20200831T142500 | 2020 | 08 | 31 | 14:25 | 75.9 | 51.6 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200831T143000 | 2020 | 08 | 31 | 14:30 | 75.4 | 51.8 | 0 |
| 20200831T143500 | 2020 | 08 | 31 | 14:35 | 75.6 | 52.8 | 0 |
| 20200831T144000 | 2020 | 08 | 31 | 14:40 | 75.8 | 51.9 | 0 |
| 20200831T144500 | 2020 | 08 | 31 | 14:45 | 75.5 | 52.3 | 0 |
| 20200831T145000 | 2020 | 08 | 31 | 14:50 | 75.7 | 52.3 | 0 |
| 20200831T145500 | 2020 | 08 | 31 | 14:55 | 76.3 | 52.5 | 0 |
| 20200831T150000 | 2020 | 08 | 31 | 15:00 | 76.1 | 52.2 | 0 |
| 20200831T150500 | 2020 | 08 | 31 | 15:05 | 76.9 | 52.2 | 0 |
| 20200831T151000 | 2020 | 08 | 31 | 15:10 | 76.3 | 51.2 | 0 |
| 20200831T151500 | 2020 | 08 | 31 | 15:15 | 76.3 | 52 | 0 |
| 20200831T152000 | 2020 | 08 | 31 | 15:20 | 76.4 | 51.7 | 0 |
| 20200831T152500 | 2020 | 08 | 31 | 15:25 | 75.6 | 52.8 | 0 |
| 20200831T153000 | 2020 | 08 | 31 | 15:30 | 75.9 | 52.9 | 0 |
| 20200831T153500 | 2020 | 08 | 31 | 15:35 | 75.3 | 53.5 | 0 |
| 20200831T154000 | 2020 | 08 | 31 | 15:40 | 76.2 | 53 | 0 |
| 20200831T154500 | 2020 | 08 | 31 | 15:45 | 76 | 53.5 | 0 |
| 20200831T155000 | 2020 | 08 | 31 | 15:50 | 76.7 | 53.7 | 0 |
| 20200831T155500 | 2020 | 08 | 31 | 15:55 | 77.1 | 53.4 | 0 |
| 20200831T160000 | 2020 | 08 | 31 | 16:00 | 76.9 | 52.4 | 0 |
| 20200831T160500 | 2020 | 08 | 31 | 16:05 | 76.5 | 52.2 | 0 |
| 20200831T161000 | 2020 | 08 | 31 | 16:10 | 76.2 | 52.9 | 0 |
| 20200831T161500 | 2020 | 08 | 31 | 16:15 | 76.6 | 54.1 | 0 |
| 20200831T162000 | 2020 | 08 | 31 | 16:20 | 77.1 | 53.5 | 0 |
| 20200831T162500 | 2020 | 08 | 31 | 16:25 | 77 | 53.1 | 0 |
| 20200831T163000 | 2020 | 08 | 31 | 16:30 | 76.9 | 51.9 | 0 |
| 20200831T163500 | 2020 | 08 | 31 | 16:35 | 76.7 | 53.1 | 0 |
| 20200831T164000 | 2020 | 08 | 31 | 16:40 | 76.3 | 54.9 | 0 |
| 20200831T164500 | 2020 | 08 | 31 | 16:45 | 75.8 | 54.4 | 0 |
| 20200831T165000 | 2020 | 08 | 31 | 16:50 | 76.1 | 55 | 0 |
| 20200831T165500 | 2020 | 08 | 31 | 16:55 | 76.2 | 54.4 | 0 |
| 20200831T170000 | 2020 | 08 | 31 | 17:00 | 76 | 55.1 | 0 |
| 20200831T170500 | 2020 | 08 | 31 | 17:05 | 75.8 | 56.7 | 0 |
| 20200831T171000 | 2020 | 08 | 31 | 17:10 | 75.5 | 56.7 | 0 |
| 20200831T171500 | 2020 | 08 | 31 | 17:15 | 75.9 | 56.8 | 0 |
| 20200831T172000 | 2020 | 08 | 31 | 17:20 | 76 | 57.1 | 0 |
| 20200831T172500 | 2020 | 08 | 31 | 17:25 | 76.9 | 57.1 | 0 |
| 20200831T173000 | 2020 | 08 | 31 | 17:30 | 77 | 53.3 | 0 |
| 20200831T173500 | 2020 | 08 | 31 | 17:35 | 76.6 | 54 | 0 |
| 20200831T174000 | 2020 | 08 | 31 | 17:40 | 76.4 | 54.8 | 0 |
| 20200831T174500 | 2020 | 08 | 31 | 17:45 | 76.4 | 54.6 | 0 |
| 20200831T175000 | 2020 | 08 | 31 | 17:50 | 76.6 | 54.5 | 0 |
| 20200831T175500 | 2020 | 08 | 31 | 17:55 | 75.8 | 55.7 | 0 |
| 20200831T180000 | 2020 | 08 | 31 | 18:00 | 75.6 | 56.8 | 0 |
| 20200831T180500 | 2020 | 08 | 31 | 18:05 | 75.4 | 57.4 | 0 |
| 20200831T181000 | 2020 | 08 | 31 | 18:10 | 75.9 | 57.2 | 0 |
| 20200831T181500 | 2020 | 08 | 31 | 18:15 | 76.2 | 57.3 | 0 |
| 20200831T182000 | 2020 | 08 | 31 | 18:20 | 76.3 | 57.7 | 0 |
| 20200831T182500 | 2020 | 08 | 31 | 18:25 | 76.1 | 57.5 | 0 |
| 20200831T183000 | 2020 | 08 | 31 | 18:30 | 75.8 | 57.6 | 0 |
| 20200831T183500 | 2020 | 08 | 31 | 18:35 | 75.2 | 57.3 | 0 |
| 20200831T184000 | 2020 | 08 | 31 | 18:40 | 74.8 | 58 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200831T184500 | 2020 | 08 | 31 | 18:45 | 74.9 | 58.1 | 0 |
| 20200831T185000 | 2020 | 08 | 31 | 18:50 | 74.6 | 58.3 | 0 |
| 20200831T185500 | 2020 | 08 | 31 | 18:55 | 74.3 | 59.2 | 0 |
| 20200831T190000 | 2020 | 08 | 31 | 19:00 | 73.9 | 59.8 | 0 |
| 20200831T190500 | 2020 | 08 | 31 | 19:05 | 73.6 | 61 | 0 |
| 20200831T191000 | 2020 | 08 | 31 | 19:10 | 73.3 | 62.1 | 0 |
| 20200831T191500 | 2020 | 08 | 31 | 19:15 | 73.3 | 62.2 | 0 |
| 20200831T192000 | 2020 | 08 | 31 | 19:20 | 73.1 | 62.6 | 0 |
| 20200831T192500 | 2020 | 08 | 31 | 19:25 | 73 | 63.1 | 0 |
| 20200831T193000 | 2020 | 08 | 31 | 19:30 | 73 | 63.5 | 0 |
| 20200831T193500 | 2020 | 08 | 31 | 19:35 | 72.8 | 63.9 | 0 |
| 20200831T194000 | 2020 | 08 | 31 | 19:40 | 72.6 | 64.4 | 0 |
| 20200831T194500 | 2020 | 08 | 31 | 19:45 | 72.8 | 63.2 | 0 |
| 20200831T195000 | 2020 | 08 | 31 | 19:50 | 72.6 | 63.4 | 0 |
| 20200831T195500 | 2020 | 08 | 31 | 19:55 | 72.5 | 63.2 | 0 |
| 20200831T200000 | 2020 | 08 | 31 | 20:00 | 72.4 | 63.2 | 0 |
| 20200831T200500 | 2020 | 08 | 31 | 20:05 | 72.5 | 63 | 0 |
| 20200831T201000 | 2020 | 08 | 31 | 20:10 | 72.2 | 63.3 | 0 |
| 20200831T201500 | 2020 | 08 | 31 | 20:15 | 72.1 | 63.6 | 0 |
| 20200831T202000 | 2020 | 08 | 31 | 20:20 | 71.9 | 63.8 | 0 |
| 20200831T202500 | 2020 | 08 | 31 | 20:25 | 71.9 | 63.8 | 0 |
| 20200831T203000 | 2020 | 08 | 31 | 20:30 | 71.8 | 63.9 | 0 |
| 20200831T203500 | 2020 | 08 | 31 | 20:35 | 72 | 63.3 | 0 |
| 20200831T204000 | 2020 | 08 | 31 | 20:40 | 71.8 | 63.4 | 0 |
| 20200831T204500 | 2020 | 08 | 31 | 20:45 | 71.7 | 63.5 | 0 |
| 20200831T205000 | 2020 | 08 | 31 | 20:50 | 71.6 | 63.7 | 0 |
| 20200831T205500 | 2020 | 08 | 31 | 20:55 | 71.2 | 64.7 | 0 |
| 20200831T210000 | 2020 | 08 | 31 | 21:00 | 71 | 65.6 | 0 |
| 20200831T210500 | 2020 | 08 | 31 | 21:05 | 71 | 65.7 | 0 |
| 20200831T211000 | 2020 | 08 | 31 | 21:10 | 70.8 | 66.3 | 0 |
| 20200831T211500 | 2020 | 08 | 31 | 21:15 | 70.5 | 67.2 | 0 |
| 20200831T212000 | 2020 | 08 | 31 | 21:20 | 70.5 | 67.4 | 0 |
| 20200831T212500 | 2020 | 08 | 31 | 21:25 | 70.3 | 68.1 | 0 |
| 20200831T213000 | 2020 | 08 | 31 | 21:30 | 70.1 | 68.7 | 0 |
| 20200831T213500 | 2020 | 08 | 31 | 21:35 | 69.9 | 69.5 | 0 |
| 20200831T214000 | 2020 | 08 | 31 | 21:40 | 69.8 | 70.1 | 0 |
| 20200831T214500 | 2020 | 08 | 31 | 21:45 | 69.7 | 70.7 | 0 |
| 20200831T215000 | 2020 | 08 | 31 | 21:50 | 69.5 | 71.5 | 0 |
| 20200831T215500 | 2020 | 08 | 31 | 21:55 | 69.3 | 72.2 | 0 |
| 20200831T220000 | 2020 | 08 | 31 | 22:00 | 69.3 | 72.3 | 0 |
| 20200831T220500 | 2020 | 08 | 31 | 22:05 | 69.2 | 72.7 | 0 |
| 20200831T221000 | 2020 | 08 | 31 | 22:10 | 69.1 | 73 | 0 |
| 20200831T221500 | 2020 | 08 | 31 | 22:15 | 69 | 73.3 | 0 |
| 20200831T222000 | 2020 | 08 | 31 | 22:20 | 69 | 73.4 | 0 |
| 20200831T222500 | 2020 | 08 | 31 | 22:25 | 68.9 | 73.7 | 0 |
| 20200831T223000 | 2020 | 08 | 31 | 22:30 | 68.7 | 74.5 | 0 |
| 20200831T223500 | 2020 | 08 | 31 | 22:35 | 68.6 | 75 | 0 |
| 20200831T224000 | 2020 | 08 | 31 | 22:40 | 68.3 | 75.5 | 0 |
| 20200831T224500 | 2020 | 08 | 31 | 22:45 | 68.2 | 76 | 0 |
| 20200831T225000 | 2020 | 08 | 31 | 22:50 | 67.9 | 76.7 | 0 |
| 20200831T225500 | 2020 | 08 | 31 | 22:55 | 67.8 | 77.4 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200831T230000 | 2020 | 08 | 31 | 23:00 | 67.7 | 77.7 | 0 |
| 20200831T230500 | 2020 | 08 | 31 | 23:05 | 67.5 | 78 | 0 |
| 20200831T231000 | 2020 | 08 | 31 | 23:10 | 67.4 | 78.7 | 0 |
| 20200831T231500 | 2020 | 08 | 31 | 23:15 | 67.3 | 79.1 | 0 |
| 20200831T232000 | 2020 | 08 | 31 | 23:20 | 67.5 | 78.8 | 0 |
| 20200831T232500 | 2020 | 08 | 31 | 23:25 | 67.5 | 78.8 | 0 |
| 20200831T233000 | 2020 | 08 | 31 | 23:30 | 67.6 | 78.6 | 0 |
| 20200831T233500 | 2020 | 08 | 31 | 23:35 | 67.6 | 78.4 | 0 |
| 20200831T234000 | 2020 | 08 | 31 | 23:40 | 67.5 | 78.6 | 0 |
| 20200831T234500 | 2020 | 08 | 31 | 23:45 | 67.5 | 78.7 | 0 |
| 20200831T235000 | 2020 | 08 | 31 | 23:50 | 67.6 | 78.4 | 0 |
| 20200831T235500 | 2020 | 08 | 31 | 23:55 | 67.6 | 78.4 | 0 |
| 20200901T000000 | 2020 | 09 | 01 | 00:00 | 67.5 | 78.4 | 0 |
| 20200901T000500 | 2020 | 09 | 01 | 00:05 | 67.2 | 79.1 | 0 |
| 20200901T001000 | 2020 | 09 | 01 | 00:10 | 67.2 | 79 | 0 |
| 20200901T001500 | 2020 | 09 | 01 | 00:15 | 67 | 79.3 | 0 |
| 20200901T002000 | 2020 | 09 | 01 | 00:20 | 66.8 | 79.7 | 0 |
| 20200901T002500 | 2020 | 09 | 01 | 00:25 | 66.6 | 81 | 0 |
| 20200901T003000 | 2020 | 09 | 01 | 00:30 | 66.7 | 81 | 0 |
| 20200901T003500 | 2020 | 09 | 01 | 00:35 | 66.8 | 80.9 | 0 |
| 20200901T004000 | 2020 | 09 | 01 | 00:40 | 67 | 80.4 | 0 |
| 20200901T004500 | 2020 | 09 | 01 | 00:45 | 67 | 79.9 | 0 |
| 20200901T005000 | 2020 | 09 | 01 | 00:50 | 67.4 | 78.7 | 0 |
| 20200901T005500 | 2020 | 09 | 01 | 00:55 | 67.4 | 78.3 | 0 |
| 20200901T010000 | 2020 | 09 | 01 | 01:00 | 67.3 | 78.8 | 0 |
| 20200901T010500 | 2020 | 09 | 01 | 01:05 | 67.5 | 78.8 | 0 |
| 20200901T011000 | 2020 | 09 | 01 | 01:10 | 67.4 | 79 | 0 |
| 20200901T011500 | 2020 | 09 | 01 | 01:15 | 67.8 | 78.2 | 0 |
| 20200901T012000 | 2020 | 09 | 01 | 01:20 | 67.5 | 78.8 | 0 |
| 20200901T012500 | 2020 | 09 | 01 | 01:25 | 67.3 | 79.6 | 0 |
| 20200901T013000 | 2020 | 09 | 01 | 01:30 | 67.2 | 80.3 | 0 |
| 20200901T013500 | 2020 | 09 | 01 | 01:35 | 67 | 80.6 | 0 |
| 20200901T014000 | 2020 | 09 | 01 | 01:40 | 66.5 | 81.6 | 0 |
| 20200901T014500 | 2020 | 09 | 01 | 01:45 | 66.1 | 82.7 | 0 |
| 20200901T015000 | 2020 | 09 | 01 | 01:50 | 66.4 | 83.2 | 0 |
| 20200901T015500 | 2020 | 09 | 01 | 01:55 | 66.3 | 83.5 | 0 |
| 20200901T020000 | 2020 | 09 | 01 | 02:00 | 66.3 | 83.5 | 0 |
| 20200901T020500 | 2020 | 09 | 01 | 02:05 | 66.3 | 83.8 | 0 |
| 20200901T021000 | 2020 | 09 | 01 | 02:10 | 66.1 | 84.1 | 0 |
| 20200901T021500 | 2020 | 09 | 01 | 02:15 | 66.3 | 83.5 | 0 |
| 20200901T022000 | 2020 | 09 | 01 | 02:20 | 66.3 | 84 | 0 |
| 20200901T022500 | 2020 | 09 | 01 | 02:25 | 66.3 | 83.7 | 0 |
| 20200901T023000 | 2020 | 09 | 01 | 02:30 | 66.2 | 84 | 0 |
| 20200901T023500 | 2020 | 09 | 01 | 02:35 | 65.7 | 84.6 | 0 |
| 20200901T024000 | 2020 | 09 | 01 | 02:40 | 65.8 | 85.2 | 0 |
| 20200901T024500 | 2020 | 09 | 01 | 02:45 | 65.5 | 85.5 | 0 |
| 20200901T025000 | 2020 | 09 | 01 | 02:50 | 65.4 | 86.1 | 0 |
| 20200901T025500 | 2020 | 09 | 01 | 02:55 | 65.1 | 86.2 | 0 |
| 20200901T030000 | 2020 | 09 | 01 | 03:00 | 65.4 | 86.4 | 0 |
| 20200901T030500 | 2020 | 09 | 01 | 03:05 | 65.2 | 86.6 | 0 |
| 20200901T031000 | 2020 | 09 | 01 | 03:10 | 65 | 87.2 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200901T031500 | 2020 | 09 | 01 | 03:15 | 65 | 87.6 | 0 |
| 20200901T032000 | 2020 | 09 | 01 | 03:20 | 65.2 | 87.1 | 0 |
| 20200901T032500 | 2020 | 09 | 01 | 03:25 | 65.2 | 87 | 0 |
| 20200901T033000 | 2020 | 09 | 01 | 03:30 | 65.1 | 86.6 | 0 |
| 20200901T033500 | 2020 | 09 | 01 | 03:35 | 65.3 | 86.2 | 0 |
| 20200901T034000 | 2020 | 09 | 01 | 03:40 | 65.5 | 85.8 | 0 |
| 20200901T034500 | 2020 | 09 | 01 | 03:45 | 65.5 | 85.7 | 0 |
| 20200901T035000 | 2020 | 09 | 01 | 03:50 | 65.7 | 85.1 | 0 |
| 20200901T035500 | 2020 | 09 | 01 | 03:55 | 65.6 | 84.9 | 0 |
| 20200901T040000 | 2020 | 09 | 01 | 04:00 | 65.5 | 85.3 | 0 |
| 20200901T040500 | 2020 | 09 | 01 | 04:05 | 65.2 | 86 | 0 |
| 20200901T041000 | 2020 | 09 | 01 | 04:10 | 65.5 | 85.8 | 0 |
| 20200901T041500 | 2020 | 09 | 01 | 04:15 | 65.5 | 85.7 | 0 |
| 20200901T042000 | 2020 | 09 | 01 | 04:20 | 65.5 | 85.9 | 0 |
| 20200901T042500 | 2020 | 09 | 01 | 04:25 | 65.4 | 86 | 0 |
| 20200901T043000 | 2020 | 09 | 01 | 04:30 | 65.1 | 86.3 | 0 |
| 20200901T043500 | 2020 | 09 | 01 | 04:35 | 65.5 | 85.5 | 0 |
| 20200901T044000 | 2020 | 09 | 01 | 04:40 | 65.4 | 85.1 | 0 |
| 20200901T044500 | 2020 | 09 | 01 | 04:45 | 65.3 | 85.4 | 0 |
| 20200901T045000 | 2020 | 09 | 01 | 04:50 | 65.1 | 86.3 | 0 |
| 20200901T045500 | 2020 | 09 | 01 | 04:55 | 65.2 | 86 | 0 |
| 20200901T050000 | 2020 | 09 | 01 | 05:00 | 65.2 | 85.8 | 0 |
| 20200901T050500 | 2020 | 09 | 01 | 05:05 | 65.5 | 84.7 | 0 |
| 20200901T051000 | 2020 | 09 | 01 | 05:10 | 65.1 | 85.6 | 0 |
| 20200901T051500 | 2020 | 09 | 01 | 05:15 | 65.1 | 86.2 | 0 |
| 20200901T052000 | 2020 | 09 | 01 | 05:20 | 65.1 | 86.2 | 0 |
| 20200901T052500 | 2020 | 09 | 01 | 05:25 | 64.7 | 87.2 | 0 |
| 20200901T053000 | 2020 | 09 | 01 | 05:30 | 64.5 | 88.4 | 0 |
| 20200901T053500 | 2020 | 09 | 01 | 05:35 | 64.4 | 88.9 | 0 |
| 20200901T054000 | 2020 | 09 | 01 | 05:40 | 64.1 | 88.7 | 0 |
| 20200901T054500 | 2020 | 09 | 01 | 05:45 | 64.1 | 89.5 | 0 |
| 20200901T055000 | 2020 | 09 | 01 | 05:50 | 64.1 | 90.1 | 0 |
| 20200901T055500 | 2020 | 09 | 01 | 05:55 | 64.2 | 90.4 | 0 |
| 20200901T060000 | 2020 | 09 | 01 | 06:00 | 64.1 | 90.4 | 0 |
| 20200901T060500 | 2020 | 09 | 01 | 06:05 | 64.1 | 90.7 | 0 |
| 20200901T061000 | 2020 | 09 | 01 | 06:10 | 64.2 | 90.8 | 0 |
| 20200901T061500 | 2020 | 09 | 01 | 06:15 | 64.5 | 90.2 | 0 |
| 20200901T062000 | 2020 | 09 | 01 | 06:20 | 64.6 | 89.7 | 0 |
| 20200901T062500 | 2020 | 09 | 01 | 06:25 | 64.6 | 89.7 | 0 |
| 20200901T063000 | 2020 | 09 | 01 | 06:30 | 64.9 | 89.7 | 0 |
| 20200901T063500 | 2020 | 09 | 01 | 06:35 | 65 | 89.6 | 0 |
| 20200901T064000 | 2020 | 09 | 01 | 06:40 | 65.1 | 89.1 | 0 |
| 20200901T064500 | 2020 | 09 | 01 | 06:45 | 65.1 | 88.9 | 0 |
| 20200901T065000 | 2020 | 09 | 01 | 06:50 | 65.1 | 89 | 0 |
| 20200901T065500 | 2020 | 09 | 01 | 06:55 | 65.4 | 88.5 | 0 |
| 20200901T070000 | 2020 | 09 | 01 | 07:00 | 65.7 | 87.7 | 0 |
| 20200901T070500 | 2020 | 09 | 01 | 07:05 | 65.8 | 87.2 | 0 |
| 20200901T071000 | 2020 | 09 | 01 | 07:10 | 65.7 | 86.9 | 0 |
| 20200901T071500 | 2020 | 09 | 01 | 07:15 | 65.8 | 85.8 | 0 |
| 20200901T072000 | 2020 | 09 | 01 | 07:20 | 65.9 | 86.3 | 0 |
| 20200901T072500 | 2020 | 09 | 01 | 07:25 | 65.9 | 87 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200901T073000 | 2020 | 09 | 01 | 07:30 | 66.2 | 86.7 | 0 |
| 20200901T073500 | 2020 | 09 | 01 | 07:35 | 66.6 | 85.3 | 0 |
| 20200901T074000 | 2020 | 09 | 01 | 07:40 | 66.8 | 84.6 | 0 |
| 20200901T074500 | 2020 | 09 | 01 | 07:45 | 67.4 | 82.7 | 0 |
| 20200901T075000 | 2020 | 09 | 01 | 07:50 | 67.8 | 81.4 | 0 |
| 20200901T075500 | 2020 | 09 | 01 | 07:55 | 68.2 | 80.4 | 0 |
| 20200901T080000 | 2020 | 09 | 01 | 08:00 | 68.2 | 79.4 | 0 |
| 20200901T080500 | 2020 | 09 | 01 | 08:05 | 68.4 | 79.7 | 0 |
| 20200901T081000 | 2020 | 09 | 01 | 08:10 | 68.5 | 79.1 | 0 |
| 20200901T081500 | 2020 | 09 | 01 | 08:15 | 68 | 79.3 | 0 |
| 20200901T082000 | 2020 | 09 | 01 | 08:20 | 67.9 | 81 | 0 |
| 20200901T082500 | 2020 | 09 | 01 | 08:25 | 68.1 | 81.3 | 0 |
| 20200901T083000 | 2020 | 09 | 01 | 08:30 | 68.7 | 79.4 | 0 |
| 20200901T083500 | 2020 | 09 | 01 | 08:35 | 69.3 | 77.9 | 0 |
| 20200901T084000 | 2020 | 09 | 01 | 08:40 | 69.4 | 77.2 | 0 |
| 20200901T084500 | 2020 | 09 | 01 | 08:45 | 69.6 | 76.9 | 0 |
| 20200901T085000 | 2020 | 09 | 01 | 08:50 | 70.1 | 77.6 | 0 |
| 20200901T085500 | 2020 | 09 | 01 | 08:55 | 69.9 | 76 | 0 |
| 20200901T090000 | 2020 | 09 | 01 | 09:00 | 69.7 | 76.1 | 0 |
| 20200901T090500 | 2020 | 09 | 01 | 09:05 | 69.3 | 77.8 | 0 |
| 20200901T091000 | 2020 | 09 | 01 | 09:10 | 69.4 | 78.6 | 0 |
| 20200901T091500 | 2020 | 09 | 01 | 09:15 | 69.4 | 78.6 | 0 |
| 20200901T092000 | 2020 | 09 | 01 | 09:20 | 69.3 | 79.1 | 0 |
| 20200901T092500 | 2020 | 09 | 01 | 09:25 | 69.4 | 79.6 | 0 |
| 20200901T093000 | 2020 | 09 | 01 | 09:30 | 69.3 | 79.7 | 0 |
| 20200901T093500 | 2020 | 09 | 01 | 09:35 | 69.4 | 80.2 | 0 |
| 20200901T094000 | 2020 | 09 | 01 | 09:40 | 69.9 | 78.6 | 0 |
| 20200901T094500 | 2020 | 09 | 01 | 09:45 | 70.3 | 78.6 | 0 |
| 20200901T095000 | 2020 | 09 | 01 | 09:50 | 70.2 | 78 | 0 |
| 20200901T095500 | 2020 | 09 | 01 | 09:55 | 70.4 | 78.2 | 0 |
| 20200901T100000 | 2020 | 09 | 01 | 10:00 | 70.5 | 78.6 | 0 |
| 20200901T100500 | 2020 | 09 | 01 | 10:05 | 70.3 | 78.4 | 0 |
| 20200901T101000 | 2020 | 09 | 01 | 10:10 | 70.5 | 78.1 | 0 |
| 20200901T101500 | 2020 | 09 | 01 | 10:15 | 72 | 78.3 | 0 |
| 20200901T102000 | 2020 | 09 | 01 | 10:20 | 72.4 | 75.7 | 0 |
| 20200901T102500 | 2020 | 09 | 01 | 10:25 | 72.9 | 73.3 | 0 |
| 20200901T103000 | 2020 | 09 | 01 | 10:30 | 72.8 | 73.3 | 0 |
| 20200901T103500 | 2020 | 09 | 01 | 10:35 | 72.5 | 72.8 | 0 |
| 20200901T104000 | 2020 | 09 | 01 | 10:40 | 73.2 | 73 | 0 |
| 20200901T104500 | 2020 | 09 | 01 | 10:45 | 73.3 | 73.9 | 0 |
| 20200901T105000 | 2020 | 09 | 01 | 10:50 | 73.9 | 72.1 | 0 |
| 20200901T105500 | 2020 | 09 | 01 | 10:55 | 74.1 | 71.8 | 0 |
| 20200901T110000 | 2020 | 09 | 01 | 11:00 | 74.5 | 70.3 | 0 |
| 20200901T110500 | 2020 | 09 | 01 | 11:05 | 73.8 | 69.6 | 0 |
| 20200901T111000 | 2020 | 09 | 01 | 11:10 | 73.2 | 70.7 | 0 |
| 20200901T111500 | 2020 | 09 | 01 | 11:15 | 74.9 | 69.9 | 0 |
| 20200901T112000 | 2020 | 09 | 01 | 11:20 | 74.8 | 68.8 | 0 |
| 20200901T112500 | 2020 | 09 | 01 | 11:25 | 76 | 71.3 | 0 |
| 20200901T113000 | 2020 | 09 | 01 | 11:30 | 76.1 | 66.8 | 0 |
| 20200901T113500 | 2020 | 09 | 01 | 11:35 | 74.4 | 69 | 0 |
| 20200901T114000 | 2020 | 09 | 01 | 11:40 | 74.1 | 69.6 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200901T114500 | 2020 | 09 | 01 | 11:45 | 74 | 70.4 | 0 |
| 20200901T115000 | 2020 | 09 | 01 | 11:50 | 74.3 | 70.2 | 0 |
| 20200901T115500 | 2020 | 09 | 01 | 11:55 | 74.2 | 69.6 | 0 |
| 20200901T120000 | 2020 | 09 | 01 | 12:00 | 74.2 | 69.7 | 0 |
| 20200901T120500 | 2020 | 09 | 01 | 12:05 | 74.4 | 70.7 | 0 |
| 20200901T121000 | 2020 | 09 | 01 | 12:10 | 75.1 | 70.6 | 0 |
| 20200901T121500 | 2020 | 09 | 01 | 12:15 | 74.8 | 69.7 | 0 |
| 20200901T122000 | 2020 | 09 | 01 | 12:20 | 74.6 | 69.8 | 0 |
| 20200901T122500 | 2020 | 09 | 01 | 12:25 | 74.8 | 70.9 | 0 |
| 20200901T123000 | 2020 | 09 | 01 | 12:30 | 75 | 70.3 | 0 |
| 20200901T123500 | 2020 | 09 | 01 | 12:35 | 75.2 | 69.6 | 0 |
| 20200901T124000 | 2020 | 09 | 01 | 12:40 | 75.7 | 69.6 | 0 |
| 20200901T124500 | 2020 | 09 | 01 | 12:45 | 75.8 | 67.2 | 0 |
| 20200901T125000 | 2020 | 09 | 01 | 12:50 | 75.7 | 67.7 | 0 |
| 20200901T125500 | 2020 | 09 | 01 | 12:55 | 76.4 | 66.3 | 0 |
| 20200901T130000 | 2020 | 09 | 01 | 13:00 | 76.3 | 65.6 | 0 |
| 20200901T130500 | 2020 | 09 | 01 | 13:05 | 76.8 | 67.7 | 0 |
| 20200901T131000 | 2020 | 09 | 01 | 13:10 | 76.7 | 68.1 | 0 |
| 20200901T131500 | 2020 | 09 | 01 | 13:15 | 76.4 | 68 | 0 |
| 20200901T132000 | 2020 | 09 | 01 | 13:20 | 75.6 | 68.9 | 0 |
| 20200901T132500 | 2020 | 09 | 01 | 13:25 | 75 | 69.8 | 0 |
| 20200901T133000 | 2020 | 09 | 01 | 13:30 | 75.2 | 71.2 | 0 |
| 20200901T133500 | 2020 | 09 | 01 | 13:35 | 75.7 | 71.5 | 0 |
| 20200901T134000 | 2020 | 09 | 01 | 13:40 | 75.7 | 70.9 | 0 |
| 20200901T134500 | 2020 | 09 | 01 | 13:45 | 75.3 | 71.7 | 0 |
| 20200901T135000 | 2020 | 09 | 01 | 13:50 | 74.8 | 71.9 | 0 |
| 20200901T135500 | 2020 | 09 | 01 | 13:55 | 74.7 | 72.8 | 0 |
| 20200901T140000 | 2020 | 09 | 01 | 14:00 | 74.7 | 72.3 | 0 |
| 20200901T140500 | 2020 | 09 | 01 | 14:05 | 74.7 | 73.4 | 0 |
| 20200901T141000 | 2020 | 09 | 01 | 14:10 | 74.7 | 73.5 | 0 |
| 20200901T141500 | 2020 | 09 | 01 | 14:15 | 75 | 73.9 | 0 |
| 20200901T142000 | 2020 | 09 | 01 | 14:20 | 75.3 | 73.2 | 0 |
| 20200901T142500 | 2020 | 09 | 01 | 14:25 | 75.6 | 72.2 | 0 |
| 20200901T143000 | 2020 | 09 | 01 | 14:30 | 76 | 71.1 | 0 |
| 20200901T143500 | 2020 | 09 | 01 | 14:35 | 76.9 | 69.3 | 0 |
| 20200901T144000 | 2020 | 09 | 01 | 14:40 | 76.5 | 69.2 | 0 |
| 20200901T144500 | 2020 | 09 | 01 | 14:45 | 76.4 | 70.2 | 0 |
| 20200901T145000 | 2020 | 09 | 01 | 14:50 | 76 | 69.7 | 0 |
| 20200901T145500 | 2020 | 09 | 01 | 14:55 | 76.8 | 69.8 | 0 |
| 20200901T150000 | 2020 | 09 | 01 | 15:00 | 77.5 | 69.6 | 0 |
| 20200901T150500 | 2020 | 09 | 01 | 15:05 | 77.4 | 67.8 | 0 |
| 20200901T151000 | 2020 | 09 | 01 | 15:10 | 77 | 68.4 | 0 |
| 20200901T151500 | 2020 | 09 | 01 | 15:15 | 76.8 | 68.2 | 0 |
| 20200901T152000 | 2020 | 09 | 01 | 15:20 | 76.5 | 69.1 | 0 |
| 20200901T152500 | 2020 | 09 | 01 | 15:25 | 76.4 | 69.5 | 0 |
| 20200901T153000 | 2020 | 09 | 01 | 15:30 | 76.2 | 69.4 | 0 |
| 20200901T153500 | 2020 | 09 | 01 | 15:35 | 75.8 | 69.3 | 0 |
| 20200901T154000 | 2020 | 09 | 01 | 15:40 | 75.5 | 70.5 | 0 |
| 20200901T154500 | 2020 | 09 | 01 | 15:45 | 75.3 | 70.7 | 0 |
| 20200901T155000 | 2020 | 09 | 01 | 15:50 | 75.4 | 70.6 | 0 |
| 20200901T155500 | 2020 | 09 | 01 | 15:55 | 75.8 | 70.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200901T160000 | 2020 | 09 | 01 | 16:00 | 75.7 | 70.4 | 0 |
| 20200901T160500 | 2020 | 09 | 01 | 16:05 | 75.7 | 70.6 | 0 |
| 20200901T161000 | 2020 | 09 | 01 | 16:10 | 76.2 | 69.8 | 0 |
| 20200901T161500 | 2020 | 09 | 01 | 16:15 | 76 | 69.7 | 0 |
| 20200901T162000 | 2020 | 09 | 01 | 16:20 | 75.6 | 70.6 | 0 |
| 20200901T162500 | 2020 | 09 | 01 | 16:25 | 75.6 | 70.6 | 0 |
| 20200901T163000 | 2020 | 09 | 01 | 16:30 | 75.2 | 71.8 | 0 |
| 20200901T163500 | 2020 | 09 | 01 | 16:35 | 75.4 | 72 | 0 |
| 20200901T164000 | 2020 | 09 | 01 | 16:40 | 75.6 | 71.2 | 0 |
| 20200901T164500 | 2020 | 09 | 01 | 16:45 | 75.4 | 71.3 | 0 |
| 20200901T165000 | 2020 | 09 | 01 | 16:50 | 74.9 | 71.7 | 0 |
| 20200901T165500 | 2020 | 09 | 01 | 16:55 | 75.7 | 71.6 | 0 |
| 20200901T170000 | 2020 | 09 | 01 | 17:00 | 76.3 | 69.7 | 0 |
| 20200901T170500 | 2020 | 09 | 01 | 17:05 | 75.5 | 69.8 | 0 |
| 20200901T171000 | 2020 | 09 | 01 | 17:10 | 75.4 | 71.7 | 0 |
| 20200901T171500 | 2020 | 09 | 01 | 17:15 | 75.5 | 69.8 | 0 |
| 20200901T172000 | 2020 | 09 | 01 | 17:20 | 75.4 | 70.1 | 0 |
| 20200901T172500 | 2020 | 09 | 01 | 17:25 | 75.5 | 70.1 | 0 |
| 20200901T173000 | 2020 | 09 | 01 | 17:30 | 75.1 | 71.1 | 0 |
| 20200901T173500 | 2020 | 09 | 01 | 17:35 | 74.8 | 70.7 | 0 |
| 20200901T174000 | 2020 | 09 | 01 | 17:40 | 74.5 | 71.9 | 0 |
| 20200901T174500 | 2020 | 09 | 01 | 17:45 | 74.2 | 72.2 | 0 |
| 20200901T175000 | 2020 | 09 | 01 | 17:50 | 73.9 | 72.9 | 0 |
| 20200901T175500 | 2020 | 09 | 01 | 17:55 | 73.4 | 73.9 | 0 |
| 20200901T180000 | 2020 | 09 | 01 | 18:00 | 73.1 | 75.2 | 0 |
| 20200901T180500 | 2020 | 09 | 01 | 18:05 | 73 | 75.5 | 0 |
| 20200901T181000 | 2020 | 09 | 01 | 18:10 | 73.1 | 75.9 | 0 |
| 20200901T181500 | 2020 | 09 | 01 | 18:15 | 73.8 | 74.8 | 0 |
| 20200901T182000 | 2020 | 09 | 01 | 18:20 | 74 | 74.1 | 0 |
| 20200901T182500 | 2020 | 09 | 01 | 18:25 | 73.9 | 74.2 | 0 |
| 20200901T183000 | 2020 | 09 | 01 | 18:30 | 73.5 | 73.7 | 0 |
| 20200901T183500 | 2020 | 09 | 01 | 18:35 | 73.2 | 75.1 | 0 |
| 20200901T184000 | 2020 | 09 | 01 | 18:40 | 73 | 74.8 | 0 |
| 20200901T184500 | 2020 | 09 | 01 | 18:45 | 72.5 | 75.8 | 0 |
| 20200901T185000 | 2020 | 09 | 01 | 18:50 | 72 | 77.6 | 0 |
| 20200901T185500 | 2020 | 09 | 01 | 18:55 | 71.8 | 78.4 | 0 |
| 20200901T190000 | 2020 | 09 | 01 | 19:00 | 71.7 | 78.2 | 0 |
| 20200901T190500 | 2020 | 09 | 01 | 19:05 | 71.5 | 78.8 | 0 |
| 20200901T191000 | 2020 | 09 | 01 | 19:10 | 71.5 | 78.9 | 0 |
| 20200901T191500 | 2020 | 09 | 01 | 19:15 | 71.5 | 79.2 | 0 |
| 20200901T192000 | 2020 | 09 | 01 | 19:20 | 71.4 | 79.3 | 0 |
| 20200901T192500 | 2020 | 09 | 01 | 19:25 | 71.2 | 79.6 | 0 |
| 20200901T193000 | 2020 | 09 | 01 | 19:30 | 71.2 | 79.4 | 0 |
| 20200901T193500 | 2020 | 09 | 01 | 19:35 | 70.9 | 80.1 | 0 |
| 20200901T194000 | 2020 | 09 | 01 | 19:40 | 70.7 | 80.6 | 0 |
| 20200901T194500 | 2020 | 09 | 01 | 19:45 | 70.4 | 81.7 | 0 |
| 20200901T195000 | 2020 | 09 | 01 | 19:50 | 70.2 | 82.1 | 0 |
| 20200901T195500 | 2020 | 09 | 01 | 19:55 | 70.2 | 82.5 | 0 |
| 20200901T200000 | 2020 | 09 | 01 | 20:00 | 70 | 83.1 | 0 |
| 20200901T200500 | 2020 | 09 | 01 | 20:05 | 69.8 | 83.7 | 0 |
| 20200901T201000 | 2020 | 09 | 01 | 20:10 | 69.7 | 84.3 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200901T201500 | 2020 | 09 | 01 | 20:15 | 69.6 | 84.6 | 0 |
| 20200901T202000 | 2020 | 09 | 01 | 20:20 | 69.5 | 84.6 | 0 |
| 20200901T202500 | 2020 | 09 | 01 | 20:25 | 69.4 | 85 | 0 |
| 20200901T203000 | 2020 | 09 | 01 | 20:30 | 69.5 | 84.9 | 0 |
| 20200901T203500 | 2020 | 09 | 01 | 20:35 | 69.6 | 84.5 | 0 |
| 20200901T204000 | 2020 | 09 | 01 | 20:40 | 69.7 | 84 | 0 |
| 20200901T204500 | 2020 | 09 | 01 | 20:45 | 69.6 | 83.7 | 0 |
| 20200901T205000 | 2020 | 09 | 01 | 20:50 | 69.6 | 84.1 | 0 |
| 20200901T205500 | 2020 | 09 | 01 | 20:55 | 69.7 | 83.5 | 0 |
| 20200901T210000 | 2020 | 09 | 01 | 21:00 | 69.6 | 83.6 | 0 |
| 20200901T210500 | 2020 | 09 | 01 | 21:05 | 69.4 | 84.1 | 0 |
| 20200901T211000 | 2020 | 09 | 01 | 21:10 | 69.5 | 84 | 0 |
| 20200901T211500 | 2020 | 09 | 01 | 21:15 | 69.4 | 84.5 | 0 |
| 20200901T212000 | 2020 | 09 | 01 | 21:20 | 69.4 | 84.3 | 0 |
| 20200901T212500 | 2020 | 09 | 01 | 21:25 | 69.4 | 84.3 | 0 |
| 20200901T213000 | 2020 | 09 | 01 | 21:30 | 69.4 | 84.1 | 0 |
| 20200901T213500 | 2020 | 09 | 01 | 21:35 | 69.4 | 84.1 | 0 |
| 20200901T214000 | 2020 | 09 | 01 | 21:40 | 69.5 | 83.9 | 0 |
| 20200901T214500 | 2020 | 09 | 01 | 21:45 | 69.4 | 84.2 | 0 |
| 20200901T215000 | 2020 | 09 | 01 | 21:50 | 69.5 | 84.3 | 0 |
| 20200901T215500 | 2020 | 09 | 01 | 21:55 | 69.3 | 84.4 | 0 |
| 20200901T220000 | 2020 | 09 | 01 | 22:00 | 69.3 | 84.5 | 0 |
| 20200901T220500 | 2020 | 09 | 01 | 22:05 | 69.2 | 84.7 | 0 |
| 20200901T221000 | 2020 | 09 | 01 | 22:10 | 69.3 | 84.6 | 0 |
| 20200901T221500 | 2020 | 09 | 01 | 22:15 | 69.2 | 84.7 | 0 |
| 20200901T222000 | 2020 | 09 | 01 | 22:20 | 69 | 85.3 | 0 |
| 20200901T222500 | 2020 | 09 | 01 | 22:25 | 69 | 85.5 | 0 |
| 20200901T223000 | 2020 | 09 | 01 | 22:30 | 69 | 85.5 | 0 |
| 20200901T223500 | 2020 | 09 | 01 | 22:35 | 68.9 | 85.8 | 0 |
| 20200901T224000 | 2020 | 09 | 01 | 22:40 | 68.9 | 85.8 | 0 |
| 20200901T224500 | 2020 | 09 | 01 | 22:45 | 68.9 | 85.9 | 0 |
| 20200901T225000 | 2020 | 09 | 01 | 22:50 | 69 | 85.8 | 0 |
| 20200901T225500 | 2020 | 09 | 01 | 22:55 | 68.9 | 86 | 0 |
| 20200901T230000 | 2020 | 09 | 01 | 23:00 | 68.9 | 86 | 0 |
| 20200901T230500 | 2020 | 09 | 01 | 23:05 | 68.9 | 86 | 0 |
| 20200901T231000 | 2020 | 09 | 01 | 23:10 | 68.9 | 86 | 0 |
| 20200901T231500 | 2020 | 09 | 01 | 23:15 | 68.8 | 86.4 | 0 |
| 20200901T232000 | 2020 | 09 | 01 | 23:20 | 68.8 | 86.3 | 0 |
| 20200901T232500 | 2020 | 09 | 01 | 23:25 | 68.7 | 86.6 | 0 |
| 20200901T233000 | 2020 | 09 | 01 | 23:30 | 68.6 | 86.9 | 0 |
| 20200901T233500 | 2020 | 09 | 01 | 23:35 | 68.8 | 86.7 | 0 |
| 20200901T234000 | 2020 | 09 | 01 | 23:40 | 68.7 | 86.5 | 0 |
| 20200901T234500 | 2020 | 09 | 01 | 23:45 | 68.7 | 86.8 | 0 |
| 20200901T235000 | 2020 | 09 | 01 | 23:50 | 68.7 | 86.8 | 0 |
| 20200901T235500 | 2020 | 09 | 01 | 23:55 | 68.6 | 87.1 | 0 |
| 20200902T000000 | 2020 | 09 | 02 | 00:00 | 68.6 | 87.3 | 0 |
| 20200902T000500 | 2020 | 09 | 02 | 00:05 | 68.7 | 87.2 | 0 |
| 20200902T001000 | 2020 | 09 | 02 | 00:10 | 68.7 | 87.1 | 0 |
| 20200902T001500 | 2020 | 09 | 02 | 00:15 | 68.7 | 87.3 | 0 |
| 20200902T002000 | 2020 | 09 | 02 | 00:20 | 68.8 | 87.2 | 0 |
| 20200902T002500 | 2020 | 09 | 02 | 00:25 | 68.8 | 87 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200902T003000 | 2020 | 09 | 02 | 00:30 | 68.8 | 87.1 | 0 |
| 20200902T003500 | 2020 | 09 | 02 | 00:35 | 68.8 | 87.2 | 0 |
| 20200902T004000 | 2020 | 09 | 02 | 00:40 | 68.8 | 87.1 | 0 |
| 20200902T004500 | 2020 | 09 | 02 | 00:45 | 68.8 | 87.3 | 0 |
| 20200902T005000 | 2020 | 09 | 02 | 00:50 | 68.8 | 87.5 | 0 |
| 20200902T005500 | 2020 | 09 | 02 | 00:55 | 68.9 | 87.2 | 0 |
| 20200902T010000 | 2020 | 09 | 02 | 01:00 | 68.9 | 87 | 0 |
| 20200902T010500 | 2020 | 09 | 02 | 01:05 | 68.9 | 87.2 | 0 |
| 20200902T011000 | 2020 | 09 | 02 | 01:10 | 68.9 | 87.5 | 0 |
| 20200902T011500 | 2020 | 09 | 02 | 01:15 | 68.9 | 87.4 | 0 |
| 20200902T012000 | 2020 | 09 | 02 | 01:20 | 68.9 | 87.1 | 0 |
| 20200902T012500 | 2020 | 09 | 02 | 01:25 | 68.9 | 87.3 | 0 |
| 20200902T013000 | 2020 | 09 | 02 | 01:30 | 69 | 87.4 | 0 |
| 20200902T013500 | 2020 | 09 | 02 | 01:35 | 69.1 | 86.9 | 0 |
| 20200902T014000 | 2020 | 09 | 02 | 01:40 | 69.1 | 86.8 | 0 |
| 20200902T014500 | 2020 | 09 | 02 | 01:45 | 69 | 87.3 | 0 |
| 20200902T015000 | 2020 | 09 | 02 | 01:50 | 69.2 | 86.7 | 0 |
| 20200902T015500 | 2020 | 09 | 02 | 01:55 | 69.2 | 86.9 | 0 |
| 20200902T020000 | 2020 | 09 | 02 | 02:00 | 69.2 | 87 | 0 |
| 20200902T020500 | 2020 | 09 | 02 | 02:05 | 69.3 | 86.8 | 0 |
| 20200902T021000 | 2020 | 09 | 02 | 02:10 | 69.4 | 86.6 | 0 |
| 20200902T021500 | 2020 | 09 | 02 | 02:15 | 69.6 | 85.8 | 0 |
| 20200902T022000 | 2020 | 09 | 02 | 02:20 | 69.5 | 86.3 | 0 |
| 20200902T022500 | 2020 | 09 | 02 | 02:25 | 69.5 | 86.6 | 0 |
| 20200902T023000 | 2020 | 09 | 02 | 02:30 | 69.6 | 86 | 0 |
| 20200902T023500 | 2020 | 09 | 02 | 02:35 | 69.8 | 85.8 | 0 |
| 20200902T024000 | 2020 | 09 | 02 | 02:40 | 69.8 | 85.8 | 0 |
| 20200902T024500 | 2020 | 09 | 02 | 02:45 | 69.8 | 86.2 | 0 |
| 20200902T025000 | 2020 | 09 | 02 | 02:50 | 69.9 | 86.2 | 0 |
| 20200902T025500 | 2020 | 09 | 02 | 02:55 | 69.8 | 86.6 | 0 |
| 20200902T030000 | 2020 | 09 | 02 | 03:00 | 69.8 | 86.7 | 0 |
| 20200902T030500 | 2020 | 09 | 02 | 03:05 | 69.9 | 86.5 | 0 |
| 20200902T031000 | 2020 | 09 | 02 | 03:10 | 69.8 | 86.9 | 0 |
| 20200902T031500 | 2020 | 09 | 02 | 03:15 | 70.1 | 86.5 | 0 |
| 20200902T032000 | 2020 | 09 | 02 | 03:20 | 70.2 | 86 | 0 |
| 20200902T032500 | 2020 | 09 | 02 | 03:25 | 70 | 86.6 | 0 |
| 20200902T033000 | 2020 | 09 | 02 | 03:30 | 70 | 86.7 | 0 |
| 20200902T033500 | 2020 | 09 | 02 | 03:35 | 70.1 | 86.9 | 0 |
| 20200902T034000 | 2020 | 09 | 02 | 03:40 | 70.2 | 86.8 | 0 |
| 20200902T034500 | 2020 | 09 | 02 | 03:45 | 70.3 | 86.5 | 0 |
| 20200902T035000 | 2020 | 09 | 02 | 03:50 | 70.2 | 86.9 | 0 |
| 20200902T035500 | 2020 | 09 | 02 | 03:55 | 70.5 | 86 | 0 |
| 20200902T040000 | 2020 | 09 | 02 | 04:00 | 70.4 | 86.1 | 0 |
| 20200902T040500 | 2020 | 09 | 02 | 04:05 | 70.4 | 86.5 | 0 |
| 20200902T041000 | 2020 | 09 | 02 | 04:10 | 70.5 | 86.2 | 0 |
| 20200902T041500 | 2020 | 09 | 02 | 04:15 | 70.6 | 86.4 | 0 |
| 20200902T042000 | 2020 | 09 | 02 | 04:20 | 70.8 | 85.6 | 0 |
| 20200902T042500 | 2020 | 09 | 02 | 04:25 | 70.7 | 85.7 | 0 |
| 20200902T043000 | 2020 | 09 | 02 | 04:30 | 70.9 | 85.7 | 0 |
| 20200902T043500 | 2020 | 09 | 02 | 04:35 | 70.9 | 85.7 | 0 |
| 20200902T044000 | 2020 | 09 | 02 | 04:40 | 70.9 | 85.7 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200902T044500 | 2020 | 09 | 02 | 04:45 | 70.8 | 85.9 | 0 |
| 20200902T045000 | 2020 | 09 | 02 | 04:50 | 71 | 85.6 | 0 |
| 20200902T045500 | 2020 | 09 | 02 | 04:55 | 70.9 | 85.6 | 0 |
| 20200902T050000 | 2020 | 09 | 02 | 05:00 | 70.9 | 85.8 | 0 |
| 20200902T050500 | 2020 | 09 | 02 | 05:05 | 70.9 | 85.9 | 0 |
| 20200902T051000 | 2020 | 09 | 02 | 05:10 | 71 | 85.7 | 0 |
| 20200902T051500 | 2020 | 09 | 02 | 05:15 | 71.1 | 85.5 | 0 |
| 20200902T052000 | 2020 | 09 | 02 | 05:20 | 71.1 | 85.5 | 0 |
| 20200902T052500 | 2020 | 09 | 02 | 05:25 | 71.1 | 85.2 | 0 |
| 20200902T053000 | 2020 | 09 | 02 | 05:30 | 70.9 | 85.7 | 0 |
| 20200902T053500 | 2020 | 09 | 02 | 05:35 | 70.9 | 86 | 0 |
| 20200902T054000 | 2020 | 09 | 02 | 05:40 | 70.9 | 85.9 | 0 |
| 20200902T054500 | 2020 | 09 | 02 | 05:45 | 71 | 85.4 | 0 |
| 20200902T055000 | 2020 | 09 | 02 | 05:50 | 70.9 | 85.5 | 0 |
| 20200902T055500 | 2020 | 09 | 02 | 05:55 | 71 | 85.2 | 0 |
| 20200902T060000 | 2020 | 09 | 02 | 06:00 | 71 | 84.8 | 0 |
| 20200902T060500 | 2020 | 09 | 02 | 06:05 | 70.9 | 84.7 | 0 |
| 20200902T061000 | 2020 | 09 | 02 | 06:10 | 71.1 | 83.9 | 0 |
| 20200902T061500 | 2020 | 09 | 02 | 06:15 | 71.2 | 83.4 | 0 |
| 20200902T062000 | 2020 | 09 | 02 | 06:20 | 71.1 | 83.6 | 0 |
| 20200902T062500 | 2020 | 09 | 02 | 06:25 | 71.1 | 83.9 | 0 |
| 20200902T063000 | 2020 | 09 | 02 | 06:30 | 71.2 | 83.9 | 0 |
| 20200902T063500 | 2020 | 09 | 02 | 06:35 | 71.8 | 82.2 | 0 |
| 20200902T064000 | 2020 | 09 | 02 | 06:40 | 72 | 81.7 | 0 |
| 20200902T064500 | 2020 | 09 | 02 | 06:45 | 72.2 | 80.9 | 0 |
| 20200902T065000 | 2020 | 09 | 02 | 06:50 | 72.3 | 80.3 | 0 |
| 20200902T065500 | 2020 | 09 | 02 | 06:55 | 72.3 | 80.9 | 0 |
| 20200902T070000 | 2020 | 09 | 02 | 07:00 | 72.2 | 81.3 | 0 |
| 20200902T070500 | 2020 | 09 | 02 | 07:05 | 72.2 | 81.5 | 0 |
| 20200902T071000 | 2020 | 09 | 02 | 07:10 | 72.2 | 81.7 | 0 |
| 20200902T071500 | 2020 | 09 | 02 | 07:15 | 72.3 | 81.6 | 0 |
| 20200902T072000 | 2020 | 09 | 02 | 07:20 | 72.2 | 81.7 | 0 |
| 20200902T072500 | 2020 | 09 | 02 | 07:25 | 72.1 | 82.2 | 0 |
| 20200902T073000 | 2020 | 09 | 02 | 07:30 | 72.1 | 82.5 | 0 |
| 20200902T073500 | 2020 | 09 | 02 | 07:35 | 72 | 82.9 | 0 |
| 20200902T074000 | 2020 | 09 | 02 | 07:40 | 72 | 83.1 | 0 |
| 20200902T074500 | 2020 | 09 | 02 | 07:45 | 72 | 83.4 | 0 |
| 20200902T075000 | 2020 | 09 | 02 | 07:50 | 72 | 83.7 | 0 |
| 20200902T075500 | 2020 | 09 | 02 | 07:55 | 72.1 | 83.5 | 0 |
| 20200902T080000 | 2020 | 09 | 02 | 08:00 | 72.2 | 83.5 | 0 |
| 20200902T080500 | 2020 | 09 | 02 | 08:05 | 72.3 | 83.2 | 0 |
| 20200902T081000 | 2020 | 09 | 02 | 08:10 | 72.4 | 82.8 | 0 |
| 20200902T081500 | 2020 | 09 | 02 | 08:15 | 72.6 | 82.5 | 0 |
| 20200902T082000 | 2020 | 09 | 02 | 08:20 | 72.7 | 82.8 | 0 |
| 20200902T082500 | 2020 | 09 | 02 | 08:25 | 72.9 | 81.9 | 0 |
| 20200902T083000 | 2020 | 09 | 02 | 08:30 | 73 | 82 | 0 |
| 20200902T083500 | 2020 | 09 | 02 | 08:35 | 72.9 | 82.7 | 0 |
| 20200902T084000 | 2020 | 09 | 02 | 08:40 | 73.1 | 82.3 | 0 |
| 20200902T084500 | 2020 | 09 | 02 | 08:45 | 73.4 | 81.7 | 0 |
| 20200902T085000 | 2020 | 09 | 02 | 08:50 | 73.6 | 81.7 | 0 |
| 20200902T085500 | 2020 | 09 | 02 | 08:55 | 73.8 | 81.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200902T090000 | 2020 | 09 | 02 | 09:00 | 74.2 | 80.8 | 0 |
| 20200902T090500 | 2020 | 09 | 02 | 09:05 | 74.4 | 80.4 | 0 |
| 20200902T091000 | 2020 | 09 | 02 | 09:10 | 74.4 | 80.3 | 0 |
| 20200902T091500 | 2020 | 09 | 02 | 09:15 | 74.3 | 80 | 0 |
| 20200902T092000 | 2020 | 09 | 02 | 09:20 | 74.2 | 80.4 | 0 |
| 20200902T092500 | 2020 | 09 | 02 | 09:25 | 74.4 | 79.7 | 0 |
| 20200902T093000 | 2020 | 09 | 02 | 09:30 | 74.6 | 79.4 | 0 |
| 20200902T093500 | 2020 | 09 | 02 | 09:35 | 74.9 | 78.4 | 0 |
| 20200902T094000 | 2020 | 09 | 02 | 09:40 | 76 | 75.7 | 0 |
| 20200902T094500 | 2020 | 09 | 02 | 09:45 | 76.3 | 74.4 | 0 |
| 20200902T095000 | 2020 | 09 | 02 | 09:50 | 77 | 74.6 | 0 |
| 20200902T095500 | 2020 | 09 | 02 | 09:55 | 76.5 | 73.6 | 0 |
| 20200902T100000 | 2020 | 09 | 02 | 10:00 | 76.3 | 73.5 | 0 |
| 20200902T100500 | 2020 | 09 | 02 | 10:05 | 76.3 | 73.3 | 0 |
| 20200902T101000 | 2020 | 09 | 02 | 10:10 | 76.3 | 73.9 | 0 |
| 20200902T101500 | 2020 | 09 | 02 | 10:15 | 76.4 | 73.7 | 0 |
| 20200902T102000 | 2020 | 09 | 02 | 10:20 | 76.4 | 74.4 | 0 |
| 20200902T102500 | 2020 | 09 | 02 | 10:25 | 76.3 | 75.1 | 0 |
| 20200902T103000 | 2020 | 09 | 02 | 10:30 | 76.4 | 75.8 | 0 |
| 20200902T103500 | 2020 | 09 | 02 | 10:35 | 76.6 | 74.9 | 0 |
| 20200902T104000 | 2020 | 09 | 02 | 10:40 | 76.6 | 74.8 | 0 |
| 20200902T104500 | 2020 | 09 | 02 | 10:45 | 77.4 | 74.5 | 0 |
| 20200902T105000 | 2020 | 09 | 02 | 10:50 | 77.5 | 72.9 | 0 |
| 20200902T105500 | 2020 | 09 | 02 | 10:55 | 77.5 | 72.9 | 0 |
| 20200902T110000 | 2020 | 09 | 02 | 11:00 | 77.8 | 71.6 | 0 |
| 20200902T110500 | 2020 | 09 | 02 | 11:05 | 77.3 | 72.4 | 0 |
| 20200902T111000 | 2020 | 09 | 02 | 11:10 | 77.2 | 73 | 0 |
| 20200902T111500 | 2020 | 09 | 02 | 11:15 | 77 | 73.3 | 0 |
| 20200902T112000 | 2020 | 09 | 02 | 11:20 | 76.9 | 73.6 | 0 |
| 20200902T112500 | 2020 | 09 | 02 | 11:25 | 77 | 73.7 | 0 |
| 20200902T113000 | 2020 | 09 | 02 | 11:30 | 77.4 | 73.4 | 0 |
| 20200902T113500 | 2020 | 09 | 02 | 11:35 | 77.3 | 73.7 | 0 |
| 20200902T114000 | 2020 | 09 | 02 | 11:40 | 76.9 | 73.7 | 0 |
| 20200902T114500 | 2020 | 09 | 02 | 11:45 | 76.8 | 74.4 | 0 |
| 20200902T115000 | 2020 | 09 | 02 | 11:50 | 77.3 | 74.2 | 0 |
| 20200902T115500 | 2020 | 09 | 02 | 11:55 | 77 | 73.4 | 0 |
| 20200902T120000 | 2020 | 09 | 02 | 12:00 | 76.5 | 74.7 | 0 |
| 20200902T120500 | 2020 | 09 | 02 | 12:05 | 76.3 | 75.5 | 0 |
| 20200902T121000 | 2020 | 09 | 02 | 12:10 | 76.6 | 74.8 | 0 |
| 20200902T121500 | 2020 | 09 | 02 | 12:15 | 76.9 | 74.1 | 0 |
| 20200902T122000 | 2020 | 09 | 02 | 12:20 | 77.4 | 73.2 | 0 |
| 20200902T122500 | 2020 | 09 | 02 | 12:25 | 77.8 | 73.6 | 0 |
| 20200902T123000 | 2020 | 09 | 02 | 12:30 | 77.8 | 73.8 | 0 |
| 20200902T123500 | 2020 | 09 | 02 | 12:35 | 78 | 74.1 | 0 |
| 20200902T124000 | 2020 | 09 | 02 | 12:40 | 78.2 | 74.4 | 0 |
| 20200902T124500 | 2020 | 09 | 02 | 12:45 | 77.9 | 74.1 | 0 |
| 20200902T125000 | 2020 | 09 | 02 | 12:50 | 77.1 | 76.2 | 0 |
| 20200902T125500 | 2020 | 09 | 02 | 12:55 | 76.1 | 81.3 | 0 |
| 20200902T130000 | 2020 | 09 | 02 | 13:00 | 76 | 81.1 | 0 |
| 20200902T130500 | 2020 | 09 | 02 | 13:05 | 76.3 | 80.3 | 0 |
| 20200902T131000 | 2020 | 09 | 02 | 13:10 | 76.5 | 79.2 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200902T131500 | 2020 | 09 | 02 | 13:15 | 76.1 | 79.9 | 0.013 |
| 20200902T132000 | 2020 | 09 | 02 | 13:20 | 73.6 | 90.4 | 0.019 |
| 20200902T132500 | 2020 | 09 | 02 | 13:25 | 73.1 | 95.6 | 0 |
| 20200902T133000 | 2020 | 09 | 02 | 13:30 | 73.3 | 95.1 | 0 |
| 20200902T133500 | 2020 | 09 | 02 | 13:35 | 73.7 | 94.7 | 0 |
| 20200902T134000 | 2020 | 09 | 02 | 13:40 | 73.7 | 94.9 | 0 |
| 20200902T134500 | 2020 | 09 | 02 | 13:45 | 73.6 | 95.2 | 0 |
| 20200902T135000 | 2020 | 09 | 02 | 13:50 | 73.4 | 96.4 | 0 |
| 20200902T135500 | 2020 | 09 | 02 | 13:55 | 73.3 | 96.7 | 0 |
| 20200902T140000 | 2020 | 09 | 02 | 14:00 | 73.4 | 97.2 | 0 |
| 20200902T140500 | 2020 | 09 | 02 | 14:05 | 73.5 | 97.1 | 0 |
| 20200902T141000 | 2020 | 09 | 02 | 14:10 | 73.6 | 96.6 | 0 |
| 20200902T141500 | 2020 | 09 | 02 | 14:15 | 73.3 | 97.2 | 0 |
| 20200902T142000 | 2020 | 09 | 02 | 14:20 | 73 | 97.9 | 0 |
| 20200902T142500 | 2020 | 09 | 02 | 14:25 | 73 | 95.6 | 0.003 |
| 20200902T143000 | 2020 | 09 | 02 | 14:30 | 72.9 | 95 | 0 |
| 20200902T143500 | 2020 | 09 | 02 | 14:35 | 73.6 | 95.1 | 0 |
| 20200902T144000 | 2020 | 09 | 02 | 14:40 | 73.8 | 94.2 | 0 |
| 20200902T144500 | 2020 | 09 | 02 | 14:45 | 74.3 | 91.1 | 0 |
| 20200902T145000 | 2020 | 09 | 02 | 14:50 | 74.4 | 91.4 | 0 |
| 20200902T145500 | 2020 | 09 | 02 | 14:55 | 74.6 | 89.8 | 0 |
| 20200902T150000 | 2020 | 09 | 02 | 15:00 | 74.8 | 89.1 | 0 |
| 20200902T150500 | 2020 | 09 | 02 | 15:05 | 74.5 | 87.5 | 0 |
| 20200902T151000 | 2020 | 09 | 02 | 15:10 | 74.9 | 87.7 | 0 |
| 20200902T151500 | 2020 | 09 | 02 | 15:15 | 75.7 | 85 | 0 |
| 20200902T152000 | 2020 | 09 | 02 | 15:20 | 75.6 | 84.2 | 0 |
| 20200902T152500 | 2020 | 09 | 02 | 15:25 | 76.1 | 81.7 | 0 |
| 20200902T153000 | 2020 | 09 | 02 | 15:30 | 76.3 | 81.6 | 0 |
| 20200902T153500 | 2020 | 09 | 02 | 15:35 | 76.1 | 81.2 | 0 |
| 20200902T154000 | 2020 | 09 | 02 | 15:40 | 76.4 | 79.8 | 0 |
| 20200902T154500 | 2020 | 09 | 02 | 15:45 | 76.9 | 78.2 | 0 |
| 20200902T155000 | 2020 | 09 | 02 | 15:50 | 77.3 | 77.1 | 0 |
| 20200902T155500 | 2020 | 09 | 02 | 15:55 | 77.1 | 76.2 | 0 |
| 20200902T160000 | 2020 | 09 | 02 | 16:00 | 77.2 | 77.4 | 0 |
| 20200902T160500 | 2020 | 09 | 02 | 16:05 | 77.7 | 76.5 | 0 |
| 20200902T161000 | 2020 | 09 | 02 | 16:10 | 77.4 | 76 | 0 |
| 20200902T161500 | 2020 | 09 | 02 | 16:15 | 77.3 | 76.8 | 0 |
| 20200902T162000 | 2020 | 09 | 02 | 16:20 | 77.6 | 75.2 | 0 |
| 20200902T162500 | 2020 | 09 | 02 | 16:25 | 77.5 | 75.5 | 0 |
| 20200902T163000 | 2020 | 09 | 02 | 16:30 | 77 | 74.8 | 0 |
| 20200902T163500 | 2020 | 09 | 02 | 16:35 | 77.2 | 74.9 | 0 |
| 20200902T164000 | 2020 | 09 | 02 | 16:40 | 77.4 | 75.1 | 0 |
| 20200902T164500 | 2020 | 09 | 02 | 16:45 | 76.6 | 76.6 | 0 |
| 20200902T165000 | 2020 | 09 | 02 | 16:50 | 76.9 | 76.2 | 0 |
| 20200902T165500 | 2020 | 09 | 02 | 16:55 | 76.7 | 75.4 | 0 |
| 20200902T170000 | 2020 | 09 | 02 | 17:00 | 76.4 | 76.2 | 0 |
| 20200902T170500 | 2020 | 09 | 02 | 17:05 | 76.3 | 77 | 0 |
| 20200902T171000 | 2020 | 09 | 02 | 17:10 | 76.2 | 77.1 | 0 |
| 20200902T171500 | 2020 | 09 | 02 | 17:15 | 76 | 77.5 | 0 |
| 20200902T172000 | 2020 | 09 | 02 | 17:20 | 76 | 78 | 0 |
| 20200902T172500 | 2020 | 09 | 02 | 17:25 | 76.2 | 77.5 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200902T173000 | 2020 | 09 | 02 | 17:30 | 76.1 | 76.5 | 0 |
| 20200902T173500 | 2020 | 09 | 02 | 17:35 | 75.9 | 78.1 | 0 |
| 20200902T174000 | 2020 | 09 | 02 | 17:40 | 75.7 | 78.2 | 0 |
| 20200902T174500 | 2020 | 09 | 02 | 17:45 | 75.5 | 79.5 | 0 |
| 20200902T175000 | 2020 | 09 | 02 | 17:50 | 75.4 | 79.8 | 0 |
| 20200902T175500 | 2020 | 09 | 02 | 17:55 | 75.1 | 80.8 | 0 |
| 20200902T180000 | 2020 | 09 | 02 | 18:00 | 74.9 | 82.1 | 0 |
| 20200902T180500 | 2020 | 09 | 02 | 18:05 | 74.9 | 82.3 | 0 |
| 20200902T181000 | 2020 | 09 | 02 | 18:10 | 74.8 | 82.6 | 0 |
| 20200902T181500 | 2020 | 09 | 02 | 18:15 | 74.8 | 83.2 | 0 |
| 20200902T182000 | 2020 | 09 | 02 | 18:20 | 74.7 | 83.4 | 0 |
| 20200902T182500 | 2020 | 09 | 02 | 18:25 | 74.6 | 83.7 | 0 |
| 20200902T183000 | 2020 | 09 | 02 | 18:30 | 74.5 | 84.4 | 0 |
| 20200902T183500 | 2020 | 09 | 02 | 18:35 | 74.4 | 84.6 | 0 |
| 20200902T184000 | 2020 | 09 | 02 | 18:40 | 74.4 | 85.1 | 0 |
| 20200902T184500 | 2020 | 09 | 02 | 18:45 | 74.3 | 85.4 | 0 |
| 20200902T185000 | 2020 | 09 | 02 | 18:50 | 74.2 | 85.4 | 0 |
| 20200902T185500 | 2020 | 09 | 02 | 18:55 | 74.1 | 86 | 0 |
| 20200902T190000 | 2020 | 09 | 02 | 19:00 | 74 | 86.1 | 0 |
| 20200902T190500 | 2020 | 09 | 02 | 19:05 | 73.9 | 86 | 0 |
| 20200902T191000 | 2020 | 09 | 02 | 19:10 | 73.8 | 86.7 | 0 |
| 20200902T191500 | 2020 | 09 | 02 | 19:15 | 73.8 | 86.7 | 0 |
| 20200902T192000 | 2020 | 09 | 02 | 19:20 | 73.7 | 87.1 | 0 |
| 20200902T192500 | 2020 | 09 | 02 | 19:25 | 73.5 | 87.6 | 0 |
| 20200902T193000 | 2020 | 09 | 02 | 19:30 | 73.5 | 87.9 | 0 |
| 20200902T193500 | 2020 | 09 | 02 | 19:35 | 73.5 | 87.7 | 0 |
| 20200902T194000 | 2020 | 09 | 02 | 19:40 | 73.5 | 88.1 | 0 |
| 20200902T194500 | 2020 | 09 | 02 | 19:45 | 73.4 | 88.5 | 0 |
| 20200902T195000 | 2020 | 09 | 02 | 19:50 | 73.3 | 89.7 | 0.002 |
| 20200902T195500 | 2020 | 09 | 02 | 19:55 | 73 | 88.9 | 0.001 |
| 20200902T200000 | 2020 | 09 | 02 | 20:00 | 72.9 | 89.8 | 0 |
| 20200902T200500 | 2020 | 09 | 02 | 20:05 | 72.7 | 90.6 | 0 |
| 20200902T201000 | 2020 | 09 | 02 | 20:10 | 72.9 | 88.5 | 0 |
| 20200902T201500 | 2020 | 09 | 02 | 20:15 | 72.7 | 87.6 | 0 |
| 20200902T202000 | 2020 | 09 | 02 | 20:20 | 72.2 | 88.5 | 0 |
| 20200902T202500 | 2020 | 09 | 02 | 20:25 | 72.2 | 87.2 | 0 |
| 20200902T203000 | 2020 | 09 | 02 | 20:30 | 71.8 | 88.1 | 0 |
| 20200902T203500 | 2020 | 09 | 02 | 20:35 | 71.7 | 89.9 | 0 |
| 20200902T204000 | 2020 | 09 | 02 | 20:40 | 71.5 | 91.9 | 0 |
| 20200902T204500 | 2020 | 09 | 02 | 20:45 | 71.7 | 93.6 | 0 |
| 20200902T205000 | 2020 | 09 | 02 | 20:50 | 71.9 | 93.3 | 0 |
| 20200902T205500 | 2020 | 09 | 02 | 20:55 | 71.7 | 93.6 | 0 |
| 20200902T210000 | 2020 | 09 | 02 | 21:00 | 71.7 | 93.5 | 0 |
| 20200902T210500 | 2020 | 09 | 02 | 21:05 | 71.5 | 91.1 | 0 |
| 20200902T211000 | 2020 | 09 | 02 | 21:10 | 71.4 | 89.5 | 0 |
| 20200902T211500 | 2020 | 09 | 02 | 21:15 | 71.1 | 89.4 | 0 |
| 20200902T212000 | 2020 | 09 | 02 | 21:20 | 71 | 88.3 | 0 |
| 20200902T212500 | 2020 | 09 | 02 | 21:25 | 70.9 | 88.5 | 0 |
| 20200902T213000 | 2020 | 09 | 02 | 21:30 | 70.5 | 89.2 | 0 |
| 20200902T213500 | 2020 | 09 | 02 | 21:35 | 70.3 | 89 | 0 |
| 20200902T214000 | 2020 | 09 | 02 | 21:40 | 70.3 | 90 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200902T214500 | 2020 | 09 | 02 | 21:45 | 70 | 92.4 | 0 |
| 20200902T215000 | 2020 | 09 | 02 | 21:50 | 69.6 | 94.9 | 0 |
| 20200902T215500 | 2020 | 09 | 02 | 21:55 | 69.6 | 95.4 | 0 |
| 20200902T220000 | 2020 | 09 | 02 | 22:00 | 69.6 | 94 | 0 |
| 20200902T220500 | 2020 | 09 | 02 | 22:05 | 69.5 | 94.3 | 0 |
| 20200902T221000 | 2020 | 09 | 02 | 22:10 | 69.2 | 95.3 | 0 |
| 20200902T221500 | 2020 | 09 | 02 | 22:15 | 69.3 | 95.4 | 0 |
| 20200902T222000 | 2020 | 09 | 02 | 22:20 | 69.3 | 93.6 | 0 |
| 20200902T222500 | 2020 | 09 | 02 | 22:25 | 69.2 | 91.7 | 0 |
| 20200902T223000 | 2020 | 09 | 02 | 22:30 | 68.9 | 91.2 | 0 |
| 20200902T223500 | 2020 | 09 | 02 | 22:35 | 68.8 | 90.1 | 0 |
| 20200902T224000 | 2020 | 09 | 02 | 22:40 | 68.7 | 89.3 | 0 |
| 20200902T224500 | 2020 | 09 | 02 | 22:45 | 68.7 | 86.8 | 0 |
| 20200902T225000 | 2020 | 09 | 02 | 22:50 | 68.4 | 87.3 | 0 |
| 20200902T225500 | 2020 | 09 | 02 | 22:55 | 68.2 | 86.9 | 0 |
| 20200902T230000 | 2020 | 09 | 02 | 23:00 | 68.2 | 85.7 | 0 |
| 20200902T230500 | 2020 | 09 | 02 | 23:05 | 68.1 | 84.2 | 0 |
| 20200902T231000 | 2020 | 09 | 02 | 23:10 | 68 | 82.9 | 0 |
| 20200902T231500 | 2020 | 09 | 02 | 23:15 | 67.8 | 82.8 | 0 |
| 20200902T232000 | 2020 | 09 | 02 | 23:20 | 68.2 | 79.5 | 0 |
| 20200902T232500 | 2020 | 09 | 02 | 23:25 | 67.8 | 79.9 | 0 |
| 20200902T233000 | 2020 | 09 | 02 | 23:30 | 67.2 | 82 | 0 |
| 20200902T233500 | 2020 | 09 | 02 | 23:35 | 67 | 83.1 | 0 |
| 20200902T234000 | 2020 | 09 | 02 | 23:40 | 66.9 | 82.2 | 0 |
| 20200902T234500 | 2020 | 09 | 02 | 23:45 | 67 | 81.1 | 0 |
| 20200902T235000 | 2020 | 09 | 02 | 23:50 | 66.7 | 80 | 0 |
| 20200902T235500 | 2020 | 09 | 02 | 23:55 | 66.3 | 80 | 0 |
| 20200903T000000 | 2020 | 09 | 03 | 00:00 | 66.3 | 79.7 | 0 |
| 20200903T000500 | 2020 | 09 | 03 | 00:05 | 66.2 | 79 | 0 |
| 20200903T001000 | 2020 | 09 | 03 | 00:10 | 66.1 | 78.8 | 0 |
| 20200903T001500 | 2020 | 09 | 03 | 00:15 | 65.8 | 79.2 | 0 |
| 20200903T002000 | 2020 | 09 | 03 | 00:20 | 65.5 | 79.4 | 0 |
| 20200903T002500 | 2020 | 09 | 03 | 00:25 | 65.6 | 80.3 | 0 |
| 20200903T003000 | 2020 | 09 | 03 | 00:30 | 65.8 | 80.3 | 0 |
| 20200903T003500 | 2020 | 09 | 03 | 00:35 | 65.5 | 81.3 | 0 |
| 20200903T004000 | 2020 | 09 | 03 | 00:40 | 65.1 | 82.9 | 0 |
| 20200903T004500 | 2020 | 09 | 03 | 00:45 | 65 | 84.4 | 0 |
| 20200903T005000 | 2020 | 09 | 03 | 00:50 | 65 | 86.4 | 0 |
| 20200903T005500 | 2020 | 09 | 03 | 00:55 | 64.9 | 87.9 | 0 |
| 20200903T010000 | 2020 | 09 | 03 | 01:00 | 64.6 | 89.3 | 0 |
| 20200903T010500 | 2020 | 09 | 03 | 01:05 | 64.7 | 90.1 | 0 |
| 20200903T011000 | 2020 | 09 | 03 | 01:10 | 64.3 | 90.3 | 0 |
| 20200903T011500 | 2020 | 09 | 03 | 01:15 | 64.5 | 92.2 | 0 |
| 20200903T012000 | 2020 | 09 | 03 | 01:20 | 64.6 | 93.3 | 0 |
| 20200903T012500 | 2020 | 09 | 03 | 01:25 | 64.6 | 94 | 0 |
| 20200903T013000 | 2020 | 09 | 03 | 01:30 | 64.3 | 95 | 0 |
| 20200903T013500 | 2020 | 09 | 03 | 01:35 | 64.3 | 96.5 | 0 |
| 20200903T014000 | 2020 | 09 | 03 | 01:40 | 64.4 | 96.8 | 0 |
| 20200903T014500 | 2020 | 09 | 03 | 01:45 | 64.7 | 96.9 | 0 |
| 20200903T015000 | 2020 | 09 | 03 | 01:50 | 64.9 | 96.3 | 0 |
| 20200903T015500 | 2020 | 09 | 03 | 01:55 | 65.3 | 96.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200903T020000 | 2020 | 09 | 03 | 02:00 | 65.3 | 95.1 | 0 |
| 20200903T020500 | 2020 | 09 | 03 | 02:05 | 65 | 95.3 | 0 |
| 20200903T021000 | 2020 | 09 | 03 | 02:10 | 65.2 | 94.8 | 0 |
| 20200903T021500 | 2020 | 09 | 03 | 02:15 | 65.4 | 93.6 | 0 |
| 20200903T022000 | 2020 | 09 | 03 | 02:20 | 65.5 | 91.8 | 0 |
| 20200903T022500 | 2020 | 09 | 03 | 02:25 | 65.2 | 90.9 | 0 |
| 20200903T023000 | 2020 | 09 | 03 | 02:30 | 65.2 | 90.9 | 0 |
| 20200903T023500 | 2020 | 09 | 03 | 02:35 | 65 | 90.7 | 0 |
| 20200903T024000 | 2020 | 09 | 03 | 02:40 | 64.9 | 89.6 | 0 |
| 20200903T024500 | 2020 | 09 | 03 | 02:45 | 64.6 | 88.8 | 0 |
| 20200903T025000 | 2020 | 09 | 03 | 02:50 | 64.3 | 88.1 | 0 |
| 20200903T025500 | 2020 | 09 | 03 | 02:55 | 64.1 | 87.9 | 0 |
| 20200903T030000 | 2020 | 09 | 03 | 03:00 | 63.1 | 90.9 | 0 |
| 20200903T030500 | 2020 | 09 | 03 | 03:05 | 63.3 | 92.8 | 0 |
| 20200903T031000 | 2020 | 09 | 03 | 03:10 | 63.5 | 94.1 | 0 |
| 20200903T031500 | 2020 | 09 | 03 | 03:15 | 63 | 94.6 | 0 |
| 20200903T032000 | 2020 | 09 | 03 | 03:20 | 62.8 | 95.8 | 0 |
| 20200903T032500 | 2020 | 09 | 03 | 03:25 | 63.1 | 96.2 | 0 |
| 20200903T033000 | 2020 | 09 | 03 | 03:30 | 63 | 96.7 | 0 |
| 20200903T033500 | 2020 | 09 | 03 | 03:35 | 63.5 | 96.4 | 0 |
| 20200903T034000 | 2020 | 09 | 03 | 03:40 | 63.6 | 95.8 | 0 |
| 20200903T034500 | 2020 | 09 | 03 | 03:45 | 63.6 | 96.4 | 0 |
| 20200903T035000 | 2020 | 09 | 03 | 03:50 | 63.4 | 96.9 | 0 |
| 20200903T035500 | 2020 | 09 | 03 | 03:55 | 63.4 | 97 | 0 |
| 20200903T040000 | 2020 | 09 | 03 | 04:00 | 63.2 | 96.1 | 0 |
| 20200903T040500 | 2020 | 09 | 03 | 04:05 | 62.9 | 96.9 | 0 |
| 20200903T041000 | 2020 | 09 | 03 | 04:10 | 63.1 | 97.1 | 0 |
| 20200903T041500 | 2020 | 09 | 03 | 04:15 | 63 | 95.7 | 0 |
| 20200903T042000 | 2020 | 09 | 03 | 04:20 | 63.3 | 93 | 0 |
| 20200903T042500 | 2020 | 09 | 03 | 04:25 | 63.4 | 92.8 | 0 |
| 20200903T043000 | 2020 | 09 | 03 | 04:30 | 62.9 | 94.3 | 0 |
| 20200903T043500 | 2020 | 09 | 03 | 04:35 | 62.4 | 95.8 | 0 |
| 20200903T044000 | 2020 | 09 | 03 | 04:40 | 62.6 | 94.9 | 0 |
| 20200903T044500 | 2020 | 09 | 03 | 04:45 | 62.7 | 92.8 | 0 |
| 20200903T045000 | 2020 | 09 | 03 | 04:50 | 63 | 91.4 | 0 |
| 20200903T045500 | 2020 | 09 | 03 | 04:55 | 62.9 | 91.9 | 0 |
| 20200903T050000 | 2020 | 09 | 03 | 05:00 | 62.7 | 92 | 0 |
| 20200903T050500 | 2020 | 09 | 03 | 05:05 | 62.7 | 91.7 | 0 |
| 20200903T051000 | 2020 | 09 | 03 | 05:10 | 62.6 | 93.7 | 0 |
| 20200903T051500 | 2020 | 09 | 03 | 05:15 | 62.4 | 94.2 | 0 |
| 20200903T052000 | 2020 | 09 | 03 | 05:20 | 62.3 | 94.9 | 0 |
| 20200903T052500 | 2020 | 09 | 03 | 05:25 | 62.3 | 94.8 | 0 |
| 20200903T053000 | 2020 | 09 | 03 | 05:30 | 62.4 | 93.2 | 0 |
| 20200903T053500 | 2020 | 09 | 03 | 05:35 | 62.2 | 93.2 | 0 |
| 20200903T054000 | 2020 | 09 | 03 | 05:40 | 61.9 | 93.2 | 0 |
| 20200903T054500 | 2020 | 09 | 03 | 05:45 | 61.7 | 93.2 | 0 |
| 20200903T055000 | 2020 | 09 | 03 | 05:50 | 61.8 | 94.6 | 0 |
| 20200903T055500 | 2020 | 09 | 03 | 05:55 | 62 | 95.2 | 0 |
| 20200903T060000 | 2020 | 09 | 03 | 06:00 | 61.6 | 97.1 | 0 |
| 20200903T060500 | 2020 | 09 | 03 | 06:05 | 61.4 | 97.7 | 0 |
| 20200903T061000 | 2020 | 09 | 03 | 06:10 | 61.5 | 97.2 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200903T061500 | 2020 | 09 | 03 | 06:15 | 61.6 | 95.5 | 0 |
| 20200903T062000 | 2020 | 09 | 03 | 06:20 | 61.7 | 93 | 0 |
| 20200903T062500 | 2020 | 09 | 03 | 06:25 | 61.6 | 91.7 | 0 |
| 20200903T063000 | 2020 | 09 | 03 | 06:30 | 61.8 | 92.6 | 0 |
| 20200903T063500 | 2020 | 09 | 03 | 06:35 | 61.6 | 93.9 | 0 |
| 20200903T064000 | 2020 | 09 | 03 | 06:40 | 61.6 | 95 | 0 |
| 20200903T064500 | 2020 | 09 | 03 | 06:45 | 61.7 | 94.4 | 0 |
| 20200903T065000 | 2020 | 09 | 03 | 06:50 | 61.9 | 93.5 | 0 |
| 20200903T065500 | 2020 | 09 | 03 | 06:55 | 62 | 92.1 | 0 |
| 20200903T070000 | 2020 | 09 | 03 | 07:00 | 62.1 | 92.3 | 0 |
| 20200903T070500 | 2020 | 09 | 03 | 07:05 | 62.3 | 92.3 | 0 |
| 20200903T071000 | 2020 | 09 | 03 | 07:10 | 62.4 | 92.9 | 0 |
| 20200903T071500 | 2020 | 09 | 03 | 07:15 | 62.4 | 93.5 | 0 |
| 20200903T072000 | 2020 | 09 | 03 | 07:20 | 62.4 | 93.8 | 0 |
| 20200903T072500 | 2020 | 09 | 03 | 07:25 | 62.5 | 94.1 | 0 |
| 20200903T073000 | 2020 | 09 | 03 | 07:30 | 62.4 | 94.7 | 0 |
| 20200903T073500 | 2020 | 09 | 03 | 07:35 | 62.5 | 94.8 | 0 |
| 20200903T074000 | 2020 | 09 | 03 | 07:40 | 62.5 | 94.7 | 0 |
| 20200903T074500 | 2020 | 09 | 03 | 07:45 | 62.6 | 94.5 | 0 |
| 20200903T075000 | 2020 | 09 | 03 | 07:50 | 62.9 | 93.8 | 0 |
| 20200903T075500 | 2020 | 09 | 03 | 07:55 | 63.1 | 93.5 | 0 |
| 20200903T080000 | 2020 | 09 | 03 | 08:00 | 63.2 | 92.8 | 0 |
| 20200903T080500 | 2020 | 09 | 03 | 08:05 | 63.3 | 93.2 | 0 |
| 20200903T081000 | 2020 | 09 | 03 | 08:10 | 63.5 | 92.7 | 0 |
| 20200903T081500 | 2020 | 09 | 03 | 08:15 | 63.6 | 92 | 0 |
| 20200903T082000 | 2020 | 09 | 03 | 08:20 | 63.8 | 91.1 | 0 |
| 20200903T082500 | 2020 | 09 | 03 | 08:25 | 63.9 | 90.1 | 0 |
| 20200903T083000 | 2020 | 09 | 03 | 08:30 | 64 | 89.2 | 0 |
| 20200903T083500 | 2020 | 09 | 03 | 08:35 | 64.3 | 87.6 | 0 |
| 20200903T084000 | 2020 | 09 | 03 | 08:40 | 64.6 | 86.9 | 0 |
| 20200903T084500 | 2020 | 09 | 03 | 08:45 | 65.1 | 85.3 | 0 |
| 20200903T085000 | 2020 | 09 | 03 | 08:50 | 65.6 | 83.5 | 0 |
| 20200903T085500 | 2020 | 09 | 03 | 08:55 | 65.9 | 82.1 | 0 |
| 20200903T090000 | 2020 | 09 | 03 | 09:00 | 66.2 | 81.2 | 0 |
| 20200903T090500 | 2020 | 09 | 03 | 09:05 | 66.3 | 81.9 | 0 |
| 20200903T091000 | 2020 | 09 | 03 | 09:10 | 66.3 | 81.6 | 0 |
| 20200903T091500 | 2020 | 09 | 03 | 09:15 | 66.4 | 81.1 | 0 |
| 20200903T092000 | 2020 | 09 | 03 | 09:20 | 66.7 | 81.8 | 0 |
| 20200903T092500 | 2020 | 09 | 03 | 09:25 | 66.7 | 81 | 0 |
| 20200903T093000 | 2020 | 09 | 03 | 09:30 | 66.9 | 81.3 | 0 |
| 20200903T093500 | 2020 | 09 | 03 | 09:35 | 67.2 | 80.8 | 0 |
| 20200903T094000 | 2020 | 09 | 03 | 09:40 | 67.4 | 80.8 | 0 |
| 20200903T094500 | 2020 | 09 | 03 | 09:45 | 67.5 | 79.7 | 0 |
| 20200903T095000 | 2020 | 09 | 03 | 09:50 | 67.9 | 80.2 | 0 |
| 20200903T095500 | 2020 | 09 | 03 | 09:55 | 68 | 77.5 | 0 |
| 20200903T100000 | 2020 | 09 | 03 | 10:00 | 68.3 | 78.8 | 0 |
| 20200903T100500 | 2020 | 09 | 03 | 10:05 | 68.5 | 78.7 | 0 |
| 20200903T101000 | 2020 | 09 | 03 | 10:10 | 68.8 | 77.3 | 0 |
| 20200903T101500 | 2020 | 09 | 03 | 10:15 | 69.1 | 76.5 | 0 |
| 20200903T102000 | 2020 | 09 | 03 | 10:20 | 69.5 | 74.9 | 0 |
| 20200903T102500 | 2020 | 09 | 03 | 10:25 | 69.9 | 73.9 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200903T103000 | 2020 | 09 | 03 | 10:30 | 70 | 72.6 | 0 |
| 20200903T103500 | 2020 | 09 | 03 | 10:35 | 70.4 | 71.5 | 0 |
| 20200903T104000 | 2020 | 09 | 03 | 10:40 | 71 | 71.7 | 0 |
| 20200903T104500 | 2020 | 09 | 03 | 10:45 | 71.4 | 68.3 | 0 |
| 20200903T105000 | 2020 | 09 | 03 | 10:50 | 72.2 | 67.1 | 0 |
| 20200903T105500 | 2020 | 09 | 03 | 10:55 | 72.8 | 62.5 | 0 |
| 20200903T110000 | 2020 | 09 | 03 | 11:00 | 73.5 | 61.7 | 0 |
| 20200903T110500 | 2020 | 09 | 03 | 11:05 | 73.2 | 60.5 | 0 |
| 20200903T111000 | 2020 | 09 | 03 | 11:10 | 72.9 | 58.1 | 0 |
| 20200903T111500 | 2020 | 09 | 03 | 11:15 | 72.9 | 57.7 | 0 |
| 20200903T112000 | 2020 | 09 | 03 | 11:20 | 73.1 | 58.8 | 0 |
| 20200903T112500 | 2020 | 09 | 03 | 11:25 | 73.5 | 57 | 0 |
| 20200903T113000 | 2020 | 09 | 03 | 11:30 | 73.9 | 57.1 | 0 |
| 20200903T113500 | 2020 | 09 | 03 | 11:35 | 73.9 | 56.9 | 0 |
| 20200903T114000 | 2020 | 09 | 03 | 11:40 | 74.6 | 57.5 | 0 |
| 20200903T114500 | 2020 | 09 | 03 | 11:45 | 75 | 53.5 | 0 |
| 20200903T115000 | 2020 | 09 | 03 | 11:50 | 75.5 | 53.9 | 0 |
| 20200903T115500 | 2020 | 09 | 03 | 11:55 | 74.7 | 53.6 | 0 |
| 20200903T120000 | 2020 | 09 | 03 | 12:00 | 74.9 | 52.2 | 0 |
| 20200903T120500 | 2020 | 09 | 03 | 12:05 | 74 | 51.1 | 0 |
| 20200903T121000 | 2020 | 09 | 03 | 12:10 | 74.3 | 53.2 | 0 |
| 20200903T121500 | 2020 | 09 | 03 | 12:15 | 74.9 | 52.4 | 0 |
| 20200903T122000 | 2020 | 09 | 03 | 12:20 | 74 | 52.5 | 0 |
| 20200903T122500 | 2020 | 09 | 03 | 12:25 | 74.2 | 52.1 | 0 |
| 20200903T123000 | 2020 | 09 | 03 | 12:30 | 75.3 | 52.3 | 0 |
| 20200903T123500 | 2020 | 09 | 03 | 12:35 | 75.9 | 51.6 | 0 |
| 20200903T124000 | 2020 | 09 | 03 | 12:40 | 75.6 | 52.3 | 0 |
| 20200903T124500 | 2020 | 09 | 03 | 12:45 | 75.8 | 53.2 | 0 |
| 20200903T125000 | 2020 | 09 | 03 | 12:50 | 76.1 | 52.3 | 0 |
| 20200903T125500 | 2020 | 09 | 03 | 12:55 | 75.6 | 47.8 | 0 |
| 20200903T130000 | 2020 | 09 | 03 | 13:00 | 76.4 | 48.7 | 0 |
| 20200903T130500 | 2020 | 09 | 03 | 13:05 | 76.2 | 47.6 | 0 |
| 20200903T131000 | 2020 | 09 | 03 | 13:10 | 76.1 | 48.5 | 0 |
| 20200903T131500 | 2020 | 09 | 03 | 13:15 | 75.5 | 48.7 | 0 |
| 20200903T132000 | 2020 | 09 | 03 | 13:20 | 75.2 | 49.1 | 0 |
| 20200903T132500 | 2020 | 09 | 03 | 13:25 | 75.7 | 48.6 | 0 |
| 20200903T133000 | 2020 | 09 | 03 | 13:30 | 75.4 | 48.8 | 0 |
| 20200903T133500 | 2020 | 09 | 03 | 13:35 | 75.4 | 48.8 | 0 |
| 20200903T134000 | 2020 | 09 | 03 | 13:40 | 75.5 | 50.6 | 0 |
| 20200903T134500 | 2020 | 09 | 03 | 13:45 | 76.2 | 50.6 | 0 |
| 20200903T135000 | 2020 | 09 | 03 | 13:50 | 75.8 | 50.4 | 0 |
| 20200903T135500 | 2020 | 09 | 03 | 13:55 | 75.7 | 50.2 | 0 |
| 20200903T140000 | 2020 | 09 | 03 | 14:00 | 76 | 49.8 | 0 |
| 20200903T140500 | 2020 | 09 | 03 | 14:05 | 76.3 | 50.7 | 0 |
| 20200903T141000 | 2020 | 09 | 03 | 14:10 | 76.3 | 49.8 | 0 |
| 20200903T141500 | 2020 | 09 | 03 | 14:15 | 76.3 | 48.9 | 0 |
| 20200903T142000 | 2020 | 09 | 03 | 14:20 | 76 | 49.9 | 0 |
| 20200903T142500 | 2020 | 09 | 03 | 14:25 | 75.7 | 49.6 | 0 |
| 20200903T143000 | 2020 | 09 | 03 | 14:30 | 76.2 | 48 | 0 |
| 20200903T143500 | 2020 | 09 | 03 | 14:35 | 77.2 | 47.3 | 0 |
| 20200903T144000 | 2020 | 09 | 03 | 14:40 | 76.6 | 47.1 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200903T144500 | 2020 | 09 | 03 | 14:45 | 77 | 47.3 | 0 |
| 20200903T145000 | 2020 | 09 | 03 | 14:50 | 76.8 | 47.5 | 0 |
| 20200903T145500 | 2020 | 09 | 03 | 14:55 | 77 | 46.9 | 0 |
| 20200903T150000 | 2020 | 09 | 03 | 15:00 | 77.2 | 46.4 | 0 |
| 20200903T150500 | 2020 | 09 | 03 | 15:05 | 77.2 | 46.3 | 0 |
| 20200903T151000 | 2020 | 09 | 03 | 15:10 | 77.6 | 46.4 | 0 |
| 20200903T151500 | 2020 | 09 | 03 | 15:15 | 77.7 | 47.3 | 0 |
| 20200903T152000 | 2020 | 09 | 03 | 15:20 | 77.5 | 46.4 | 0 |
| 20200903T152500 | 2020 | 09 | 03 | 15:25 | 77.3 | 46.3 | 0 |
| 20200903T153000 | 2020 | 09 | 03 | 15:30 | 77.7 | 46.5 | 0 |
| 20200903T153500 | 2020 | 09 | 03 | 15:35 | 77.8 | 46.2 | 0 |
| 20200903T154000 | 2020 | 09 | 03 | 15:40 | 78.1 | 45.1 | 0 |
| 20200903T154500 | 2020 | 09 | 03 | 15:45 | 77.9 | 44.6 | 0 |
| 20200903T155000 | 2020 | 09 | 03 | 15:50 | 78.1 | 44.8 | 0 |
| 20200903T155500 | 2020 | 09 | 03 | 15:55 | 78 | 44.9 | 0 |
| 20200903T160000 | 2020 | 09 | 03 | 16:00 | 78.2 | 44.9 | 0 |
| 20200903T160500 | 2020 | 09 | 03 | 16:05 | 78.2 | 45.4 | 0 |
| 20200903T161000 | 2020 | 09 | 03 | 16:10 | 78.5 | 46.5 | 0 |
| 20200903T161500 | 2020 | 09 | 03 | 16:15 | 78.6 | 46.8 | 0 |
| 20200903T162000 | 2020 | 09 | 03 | 16:20 | 78.1 | 45.7 | 0 |
| 20200903T162500 | 2020 | 09 | 03 | 16:25 | 78.2 | 46.7 | 0 |
| 20200903T163000 | 2020 | 09 | 03 | 16:30 | 78.3 | 47 | 0 |
| 20200903T163500 | 2020 | 09 | 03 | 16:35 | 78 | 46.4 | 0 |
| 20200903T164000 | 2020 | 09 | 03 | 16:40 | 78.3 | 47.9 | 0 |
| 20200903T164500 | 2020 | 09 | 03 | 16:45 | 78.2 | 46.8 | 0 |
| 20200903T165000 | 2020 | 09 | 03 | 16:50 | 78.3 | 47.8 | 0 |
| 20200903T165500 | 2020 | 09 | 03 | 16:55 | 78.7 | 48.6 | 0 |
| 20200903T170000 | 2020 | 09 | 03 | 17:00 | 78.5 | 48 | 0 |
| 20200903T170500 | 2020 | 09 | 03 | 17:05 | 78.4 | 48.3 | 0 |
| 20200903T171000 | 2020 | 09 | 03 | 17:10 | 78.3 | 48.6 | 0 |
| 20200903T171500 | 2020 | 09 | 03 | 17:15 | 78.3 | 48.5 | 0 |
| 20200903T172000 | 2020 | 09 | 03 | 17:20 | 78.2 | 49 | 0 |
| 20200903T172500 | 2020 | 09 | 03 | 17:25 | 78.3 | 49.6 | 0 |
| 20200903T173000 | 2020 | 09 | 03 | 17:30 | 78.2 | 50.3 | 0 |
| 20200903T173500 | 2020 | 09 | 03 | 17:35 | 77.5 | 50.3 | 0 |
| 20200903T174000 | 2020 | 09 | 03 | 17:40 | 77.6 | 50.6 | 0 |
| 20200903T174500 | 2020 | 09 | 03 | 17:45 | 77.3 | 51 | 0 |
| 20200903T175000 | 2020 | 09 | 03 | 17:50 | 77.3 | 51.2 | 0 |
| 20200903T175500 | 2020 | 09 | 03 | 17:55 | 77.4 | 51.5 | 0 |
| 20200903T180000 | 2020 | 09 | 03 | 18:00 | 77.3 | 51.3 | 0 |
| 20200903T180500 | 2020 | 09 | 03 | 18:05 | 76.8 | 52.5 | 0 |
| 20200903T181000 | 2020 | 09 | 03 | 18:10 | 76.5 | 53.4 | 0 |
| 20200903T181500 | 2020 | 09 | 03 | 18:15 | 76.7 | 53.3 | 0 |
| 20200903T182000 | 2020 | 09 | 03 | 18:20 | 76.9 | 52.7 | 0 |
| 20200903T182500 | 2020 | 09 | 03 | 18:25 | 76.8 | 52.3 | 0 |
| 20200903T183000 | 2020 | 09 | 03 | 18:30 | 76.4 | 53.1 | 0 |
| 20200903T183500 | 2020 | 09 | 03 | 18:35 | 76.1 | 54.5 | 0 |
| 20200903T184000 | 2020 | 09 | 03 | 18:40 | 75.9 | 54.7 | 0 |
| 20200903T184500 | 2020 | 09 | 03 | 18:45 | 75.7 | 55 | 0 |
| 20200903T185000 | 2020 | 09 | 03 | 18:50 | 75.6 | 55.1 | 0 |
| 20200903T185500 | 2020 | 09 | 03 | 18:55 | 75.2 | 56.9 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200903T190000 | 2020 | 09 | 03 | 19:00 | 74.8 | 58 | 0 |
| 20200903T190500 | 2020 | 09 | 03 | 19:05 | 74.6 | 58.8 | 0 |
| 20200903T191000 | 2020 | 09 | 03 | 19:10 | 74.6 | 58.6 | 0 |
| 20200903T191500 | 2020 | 09 | 03 | 19:15 | 74.5 | 58.8 | 0 |
| 20200903T192000 | 2020 | 09 | 03 | 19:20 | 74.3 | 59.2 | 0 |
| 20200903T192500 | 2020 | 09 | 03 | 19:25 | 73.8 | 60.3 | 0 |
| 20200903T193000 | 2020 | 09 | 03 | 19:30 | 73.5 | 61.3 | 0 |
| 20200903T193500 | 2020 | 09 | 03 | 19:35 | 72.9 | 61.7 | 0 |
| 20200903T194000 | 2020 | 09 | 03 | 19:40 | 72.6 | 62.4 | 0 |
| 20200903T194500 | 2020 | 09 | 03 | 19:45 | 72.4 | 62.9 | 0 |
| 20200903T195000 | 2020 | 09 | 03 | 19:50 | 72.3 | 63 | 0 |
| 20200903T195500 | 2020 | 09 | 03 | 19:55 | 72 | 63.4 | 0 |
| 20200903T200000 | 2020 | 09 | 03 | 20:00 | 71.7 | 63.9 | 0 |
| 20200903T200500 | 2020 | 09 | 03 | 20:05 | 71.3 | 64.2 | 0 |
| 20200903T201000 | 2020 | 09 | 03 | 20:10 | 71.1 | 65.1 | 0 |
| 20200903T201500 | 2020 | 09 | 03 | 20:15 | 71.2 | 65 | 0 |
| 20200903T202000 | 2020 | 09 | 03 | 20:20 | 70.6 | 66.3 | 0 |
| 20200903T202500 | 2020 | 09 | 03 | 20:25 | 70.7 | 66.1 | 0 |
| 20200903T203000 | 2020 | 09 | 03 | 20:30 | 70.8 | 66.1 | 0 |
| 20200903T203500 | 2020 | 09 | 03 | 20:35 | 70.6 | 66.3 | 0 |
| 20200903T204000 | 2020 | 09 | 03 | 20:40 | 70.5 | 66.7 | 0 |
| 20200903T204500 | 2020 | 09 | 03 | 20:45 | 70.2 | 67.4 | 0 |
| 20200903T205000 | 2020 | 09 | 03 | 20:50 | 69.9 | 68.1 | 0 |
| 20200903T205500 | 2020 | 09 | 03 | 20:55 | 69.9 | 67.9 | 0 |
| 20200903T210000 | 2020 | 09 | 03 | 21:00 | 70.2 | 67.7 | 0 |
| 20200903T210500 | 2020 | 09 | 03 | 21:05 | 69.9 | 68.1 | 0 |
| 20200903T211000 | 2020 | 09 | 03 | 21:10 | 69.7 | 68.8 | 0 |
| 20200903T211500 | 2020 | 09 | 03 | 21:15 | 69.9 | 68.1 | 0 |
| 20200903T212000 | 2020 | 09 | 03 | 21:20 | 70 | 67.9 | 0 |
| 20200903T212500 | 2020 | 09 | 03 | 21:25 | 69.7 | 68.4 | 0 |
| 20200903T213000 | 2020 | 09 | 03 | 21:30 | 69.9 | 68.2 | 0 |
| 20200903T213500 | 2020 | 09 | 03 | 21:35 | 69.9 | 68.2 | 0 |
| 20200903T214000 | 2020 | 09 | 03 | 21:40 | 70 | 68.3 | 0 |
| 20200903T214500 | 2020 | 09 | 03 | 21:45 | 70 | 68.2 | 0 |
| 20200903T215000 | 2020 | 09 | 03 | 21:50 | 70 | 68.5 | 0 |
| 20200903T215500 | 2020 | 09 | 03 | 21:55 | 70.1 | 68.3 | 0 |
| 20200903T220000 | 2020 | 09 | 03 | 22:00 | 70.3 | 68.1 | 0 |
| 20200903T220500 | 2020 | 09 | 03 | 22:05 | 70.4 | 68 | 0 |
| 20200903T221000 | 2020 | 09 | 03 | 22:10 | 70.1 | 68.9 | 0 |
| 20200903T221500 | 2020 | 09 | 03 | 22:15 | 70.2 | 68.8 | 0 |
| 20200903T222000 | 2020 | 09 | 03 | 22:20 | 70.1 | 69.4 | 0 |
| 20200903T222500 | 2020 | 09 | 03 | 22:25 | 70.2 | 69.5 | 0 |
| 20200903T223000 | 2020 | 09 | 03 | 22:30 | 70 | 69.9 | 0 |
| 20200903T223500 | 2020 | 09 | 03 | 22:35 | 70 | 70 | 0 |
| 20200903T224000 | 2020 | 09 | 03 | 22:40 | 69.9 | 70.5 | 0 |
| 20200903T224500 | 2020 | 09 | 03 | 22:45 | 69.7 | 71.1 | 0 |
| 20200903T225000 | 2020 | 09 | 03 | 22:50 | 69.6 | 71.8 | 0 |
| 20200903T225500 | 2020 | 09 | 03 | 22:55 | 69.6 | 72 | 0 |
| 20200903T230000 | 2020 | 09 | 03 | 23:00 | 69.6 | 72 | 0 |
| 20200903T230500 | 2020 | 09 | 03 | 23:05 | 69.6 | 72.5 | 0 |
| 20200903T231000 | 2020 | 09 | 03 | 23:10 | 69.4 | 73.6 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200903T231500 | 2020 | 09 | 03 | 23:15 | 69.6 | 73.6 | 0 |
| 20200903T232000 | 2020 | 09 | 03 | 23:20 | 69.7 | 73.7 | 0 |
| 20200903T232500 | 2020 | 09 | 03 | 23:25 | 69.7 | 74.4 | 0 |
| 20200903T233000 | 2020 | 09 | 03 | 23:30 | 69.4 | 76.2 | 0.008 |
| 20200903T233500 | 2020 | 09 | 03 | 23:35 | 66.9 | 86.8 | 0.048 |
| 20200903T234000 | 2020 | 09 | 03 | 23:40 | 65.3 | 94.6 | 0.003 |
| 20200903T234500 | 2020 | 09 | 03 | 23:45 | 65 | 97.5 | 0.015 |
| 20200903T235000 | 2020 | 09 | 03 | 23:50 | 64.8 | 98.6 | 0.041 |
| 20200903T235500 | 2020 | 09 | 03 | 23:55 | 64.6 | 99.1 | 0.016 |
| 20200904T000000 | 2020 | 09 | 04 | 00:00 | 64.6 | 99.2 | 0 |
| 20200904T000500 | 2020 | 09 | 04 | 00:05 | 64.7 | 99.1 | 0 |
| 20200904T001000 | 2020 | 09 | 04 | 00:10 | 64.8 | 98.9 | 0 |
| 20200904T001500 | 2020 | 09 | 04 | 00:15 | 64.9 | 98.8 | 0 |
| 20200904T002000 | 2020 | 09 | 04 | 00:20 | 65 | 98.4 | 0 |
| 20200904T002500 | 2020 | 09 | 04 | 00:25 | 65 | 98.2 | 0 |
| 20200904T003000 | 2020 | 09 | 04 | 00:30 | 65.1 | 98 | 0 |
| 20200904T003500 | 2020 | 09 | 04 | 00:35 | 65.2 | 97.1 | 0 |
| 20200904T004000 | 2020 | 09 | 04 | 00:40 | 65.1 | 96.9 | 0 |
| 20200904T004500 | 2020 | 09 | 04 | 00:45 | 65.3 | 95.1 | 0 |
| 20200904T005000 | 2020 | 09 | 04 | 00:50 | 65.2 | 95.8 | 0 |
| 20200904T005500 | 2020 | 09 | 04 | 00:55 | 65.1 | 95 | 0 |
| 20200904T010000 | 2020 | 09 | 04 | 01:00 | 65.1 | 94.4 | 0 |
| 20200904T010500 | 2020 | 09 | 04 | 01:05 | 65 | 94.4 | 0 |
| 20200904T011000 | 2020 | 09 | 04 | 01:10 | 64.9 | 93.6 | 0 |
| 20200904T011500 | 2020 | 09 | 04 | 01:15 | 64.9 | 93.4 | 0 |
| 20200904T012000 | 2020 | 09 | 04 | 01:20 | 64.8 | 92.7 | 0 |
| 20200904T012500 | 2020 | 09 | 04 | 01:25 | 64.6 | 93.5 | 0 |
| 20200904T013000 | 2020 | 09 | 04 | 01:30 | 64.4 | 94.4 | 0 |
| 20200904T013500 | 2020 | 09 | 04 | 01:35 | 63.9 | 95.5 | 0 |
| 20200904T014000 | 2020 | 09 | 04 | 01:40 | 64 | 96.1 | 0 |
| 20200904T014500 | 2020 | 09 | 04 | 01:45 | 63.8 | 95.7 | 0 |
| 20200904T015000 | 2020 | 09 | 04 | 01:50 | 63.8 | 94.1 | 0 |
| 20200904T015500 | 2020 | 09 | 04 | 01:55 | 63.8 | 92.6 | 0 |
| 20200904T020000 | 2020 | 09 | 04 | 02:00 | 63.6 | 91.9 | 0 |
| 20200904T020500 | 2020 | 09 | 04 | 02:05 | 63.8 | 87.1 | 0 |
| 20200904T021000 | 2020 | 09 | 04 | 02:10 | 63.4 | 88.6 | 0 |
| 20200904T021500 | 2020 | 09 | 04 | 02:15 | 62.8 | 89 | 0 |
| 20200904T022000 | 2020 | 09 | 04 | 02:20 | 62.7 | 88.2 | 0 |
| 20200904T022500 | 2020 | 09 | 04 | 02:25 | 62.4 | 89.1 | 0 |
| 20200904T023000 | 2020 | 09 | 04 | 02:30 | 62.3 | 88.4 | 0 |
| 20200904T023500 | 2020 | 09 | 04 | 02:35 | 62.2 | 88.3 | 0 |
| 20200904T024000 | 2020 | 09 | 04 | 02:40 | 61.9 | 87.6 | 0 |
| 20200904T024500 | 2020 | 09 | 04 | 02:45 | 62.1 | 82.9 | 0 |
| 20200904T025000 | 2020 | 09 | 04 | 02:50 | 61.7 | 83 | 0 |
| 20200904T025500 | 2020 | 09 | 04 | 02:55 | 61.4 | 82.6 | 0 |
| 20200904T030000 | 2020 | 09 | 04 | 03:00 | 61 | 82.6 | 0 |
| 20200904T030500 | 2020 | 09 | 04 | 03:05 | 61.1 | 80.9 | 0 |
| 20200904T031000 | 2020 | 09 | 04 | 03:10 | 60.6 | 81.8 | 0 |
| 20200904T031500 | 2020 | 09 | 04 | 03:15 | 60 | 83.6 | 0 |
| 20200904T032000 | 2020 | 09 | 04 | 03:20 | 59.7 | 84.4 | 0 |
| 20200904T032500 | 2020 | 09 | 04 | 03:25 | 59.5 | 84.4 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200904T033000 | 2020 | 09 | 04 | 03:30 | 59.1 | 85.2 | 0 |
| 20200904T033500 | 2020 | 09 | 04 | 03:35 | 59.1 | 84.8 | 0 |
| 20200904T034000 | 2020 | 09 | 04 | 03:40 | 58.8 | 84.8 | 0 |
| 20200904T034500 | 2020 | 09 | 04 | 03:45 | 58.8 | 85 | 0 |
| 20200904T035000 | 2020 | 09 | 04 | 03:50 | 58.8 | 84.6 | 0 |
| 20200904T035500 | 2020 | 09 | 04 | 03:55 | 58.7 | 84.1 | 0 |
| 20200904T040000 | 2020 | 09 | 04 | 04:00 | 58.3 | 84.5 | 0 |
| 20200904T040500 | 2020 | 09 | 04 | 04:05 | 58.2 | 85 | 0 |
| 20200904T041000 | 2020 | 09 | 04 | 04:10 | 58.1 | 84.2 | 0 |
| 20200904T041500 | 2020 | 09 | 04 | 04:15 | 58.1 | 83.6 | 0 |
| 20200904T042000 | 2020 | 09 | 04 | 04:20 | 58.1 | 83.2 | 0 |
| 20200904T042500 | 2020 | 09 | 04 | 04:25 | 58.1 | 82.8 | 0 |
| 20200904T043000 | 2020 | 09 | 04 | 04:30 | 57.9 | 82.4 | 0 |
| 20200904T043500 | 2020 | 09 | 04 | 04:35 | 57.6 | 84.1 | 0 |
| 20200904T044000 | 2020 | 09 | 04 | 04:40 | 57.6 | 83.8 | 0 |
| 20200904T044500 | 2020 | 09 | 04 | 04:45 | 57.1 | 84.9 | 0 |
| 20200904T045000 | 2020 | 09 | 04 | 04:50 | 57.1 | 85.4 | 0 |
| 20200904T045500 | 2020 | 09 | 04 | 04:55 | 57.2 | 85.6 | 0 |
| 20200904T050000 | 2020 | 09 | 04 | 05:00 | 56.7 | 86.8 | 0 |
| 20200904T050500 | 2020 | 09 | 04 | 05:05 | 56.2 | 91 | 0 |
| 20200904T051000 | 2020 | 09 | 04 | 05:10 | 56.4 | 90.9 | 0 |
| 20200904T051500 | 2020 | 09 | 04 | 05:15 | 55.8 | 90.9 | 0 |
| 20200904T052000 | 2020 | 09 | 04 | 05:20 | 55.9 | 93.3 | 0 |
| 20200904T052500 | 2020 | 09 | 04 | 05:25 | 55.8 | 94.7 | 0 |
| 20200904T053000 | 2020 | 09 | 04 | 05:30 | 55.8 | 95.2 | 0 |
| 20200904T053500 | 2020 | 09 | 04 | 05:35 | 55.8 | 95.7 | 0 |
| 20200904T054000 | 2020 | 09 | 04 | 05:40 | 55.9 | 95.6 | 0 |
| 20200904T054500 | 2020 | 09 | 04 | 05:45 | 55.8 | 95.3 | 0 |
| 20200904T055000 | 2020 | 09 | 04 | 05:50 | 56 | 95.6 | 0 |
| 20200904T055500 | 2020 | 09 | 04 | 05:55 | 55.5 | 96 | 0 |
| 20200904T060000 | 2020 | 09 | 04 | 06:00 | 55.7 | 97.3 | 0 |
| 20200904T060500 | 2020 | 09 | 04 | 06:05 | 55.8 | 97.3 | 0 |
| 20200904T061000 | 2020 | 09 | 04 | 06:10 | 56.4 | 97.5 | 0 |
| 20200904T061500 | 2020 | 09 | 04 | 06:15 | 56.3 | 97.3 | 0 |
| 20200904T062000 | 2020 | 09 | 04 | 06:20 | 56 | 98.1 | 0 |
| 20200904T062500 | 2020 | 09 | 04 | 06:25 | 55.8 | 98.4 | 0 |
| 20200904T063000 | 2020 | 09 | 04 | 06:30 | 55.7 | 98.7 | 0 |
| 20200904T063500 | 2020 | 09 | 04 | 06:35 | 55.7 | 98.7 | 0 |
| 20200904T064000 | 2020 | 09 | 04 | 06:40 | 55.8 | 98.7 | 0 |
| 20200904T064500 | 2020 | 09 | 04 | 06:45 | 55.8 | 98.5 | 0 |
| 20200904T065000 | 2020 | 09 | 04 | 06:50 | 55.8 | 98.7 | 0 |
| 20200904T065500 | 2020 | 09 | 04 | 06:55 | 56 | 98.8 | 0 |
| 20200904T070000 | 2020 | 09 | 04 | 07:00 | 56.1 | 98.6 | 0 |
| 20200904T070500 | 2020 | 09 | 04 | 07:05 | 56 | 98.4 | 0 |
| 20200904T071000 | 2020 | 09 | 04 | 07:10 | 56.1 | 98.3 | 0 |
| 20200904T071500 | 2020 | 09 | 04 | 07:15 | 56.3 | 98 | 0 |
| 20200904T072000 | 2020 | 09 | 04 | 07:20 | 56.5 | 97.5 | 0 |
| 20200904T072500 | 2020 | 09 | 04 | 07:25 | 56.3 | 97.6 | 0 |
| 20200904T073000 | 2020 | 09 | 04 | 07:30 | 56.3 | 97.8 | 0 |
| 20200904T073500 | 2020 | 09 | 04 | 07:35 | 56.4 | 97.8 | 0 |
| 20200904T074000 | 2020 | 09 | 04 | 07:40 | 56.7 | 97.2 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200904T074500 | 2020 | 09 | 04 | 07:45 | 57 | 96.3 | 0 |
| 20200904T075000 | 2020 | 09 | 04 | 07:50 | 57.2 | 95.4 | 0 |
| 20200904T075500 | 2020 | 09 | 04 | 07:55 | 57.5 | 94.6 | 0 |
| 20200904T080000 | 2020 | 09 | 04 | 08:00 | 57.8 | 93.9 | 0 |
| 20200904T080500 | 2020 | 09 | 04 | 08:05 | 58.2 | 93.2 | 0 |
| 20200904T081000 | 2020 | 09 | 04 | 08:10 | 58.6 | 92.7 | 0 |
| 20200904T081500 | 2020 | 09 | 04 | 08:15 | 59 | 91.3 | 0 |
| 20200904T082000 | 2020 | 09 | 04 | 08:20 | 59.4 | 89.4 | 0 |
| 20200904T082500 | 2020 | 09 | 04 | 08:25 | 60.1 | 89.7 | 0 |
| 20200904T083000 | 2020 | 09 | 04 | 08:30 | 60.2 | 86.4 | 0 |
| 20200904T083500 | 2020 | 09 | 04 | 08:35 | 60.8 | 85 | 0 |
| 20200904T084000 | 2020 | 09 | 04 | 08:40 | 61.4 | 81.9 | 0 |
| 20200904T084500 | 2020 | 09 | 04 | 08:45 | 61.6 | 79.6 | 0 |
| 20200904T085000 | 2020 | 09 | 04 | 08:50 | 62 | 79.6 | 0 |
| 20200904T085500 | 2020 | 09 | 04 | 08:55 | 62.3 | 78.6 | 0 |
| 20200904T090000 | 2020 | 09 | 04 | 09:00 | 62.3 | 77.2 | 0 |
| 20200904T090500 | 2020 | 09 | 04 | 09:05 | 62.4 | 76 | 0 |
| 20200904T091000 | 2020 | 09 | 04 | 09:10 | 62.7 | 75.5 | 0 |
| 20200904T091500 | 2020 | 09 | 04 | 09:15 | 63 | 75.3 | 0 |
| 20200904T092000 | 2020 | 09 | 04 | 09:20 | 63.1 | 74.2 | 0 |
| 20200904T092500 | 2020 | 09 | 04 | 09:25 | 63.3 | 74 | 0 |
| 20200904T093000 | 2020 | 09 | 04 | 09:30 | 63.4 | 73.6 | 0 |
| 20200904T093500 | 2020 | 09 | 04 | 09:35 | 63.5 | 73 | 0 |
| 20200904T094000 | 2020 | 09 | 04 | 09:40 | 64 | 72.8 | 0 |
| 20200904T094500 | 2020 | 09 | 04 | 09:45 | 63.9 | 71.7 | 0 |
| 20200904T095000 | 2020 | 09 | 04 | 09:50 | 64.3 | 72.1 | 0 |
| 20200904T095500 | 2020 | 09 | 04 | 09:55 | 64.4 | 69.7 | 0 |
| 20200904T100000 | 2020 | 09 | 04 | 10:00 | 64.1 | 66 | 0 |
| 20200904T100500 | 2020 | 09 | 04 | 10:05 | 64.5 | 65.4 | 0 |
| 20200904T101000 | 2020 | 09 | 04 | 10:10 | 64.9 | 64.2 | 0 |
| 20200904T101500 | 2020 | 09 | 04 | 10:15 | 64.8 | 61.8 | 0 |
| 20200904T102000 | 2020 | 09 | 04 | 10:20 | 65.3 | 62.7 | 0 |
| 20200904T102500 | 2020 | 09 | 04 | 10:25 | 65.2 | 62.2 | 0 |
| 20200904T103000 | 2020 | 09 | 04 | 10:30 | 65.4 | 62.9 | 0 |
| 20200904T103500 | 2020 | 09 | 04 | 10:35 | 65.9 | 61.9 | 0 |
| 20200904T104000 | 2020 | 09 | 04 | 10:40 | 65.9 | 60.6 | 0 |
| 20200904T104500 | 2020 | 09 | 04 | 10:45 | 65.8 | 59.5 | 0 |
| 20200904T105000 | 2020 | 09 | 04 | 10:50 | 65.9 | 56.4 | 0 |
| 20200904T105500 | 2020 | 09 | 04 | 10:55 | 66.8 | 59 | 0 |
| 20200904T110000 | 2020 | 09 | 04 | 11:00 | 66.2 | 55.5 | 0 |
| 20200904T110500 | 2020 | 09 | 04 | 11:05 | 66.3 | 55.2 | 0 |
| 20200904T111000 | 2020 | 09 | 04 | 11:10 | 66.6 | 51.8 | 0 |
| 20200904T111500 | 2020 | 09 | 04 | 11:15 | 66.9 | 49.5 | 0 |
| 20200904T112000 | 2020 | 09 | 04 | 11:20 | 67.3 | 49.5 | 0 |
| 20200904T112500 | 2020 | 09 | 04 | 11:25 | 67.2 | 48.3 | 0 |
| 20200904T113000 | 2020 | 09 | 04 | 11:30 | 67.3 | 49.1 | 0 |
| 20200904T113500 | 2020 | 09 | 04 | 11:35 | 67.8 | 49 | 0 |
| 20200904T114000 | 2020 | 09 | 04 | 11:40 | 67.8 | 48.8 | 0 |
| 20200904T114500 | 2020 | 09 | 04 | 11:45 | 67.6 | 49.2 | 0 |
| 20200904T115000 | 2020 | 09 | 04 | 11:50 | 67.5 | 46.8 | 0 |
| 20200904T115500 | 2020 | 09 | 04 | 11:55 | 67.6 | 45.9 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200904T120000 | 2020 | 09 | 04 | 12:00 | 67.6 | 45.4 | 0 |
| 20200904T120500 | 2020 | 09 | 04 | 12:05 | 68.2 | 46.7 | 0 |
| 20200904T121000 | 2020 | 09 | 04 | 12:10 | 68.1 | 45.1 | 0 |
| 20200904T121500 | 2020 | 09 | 04 | 12:15 | 68.1 | 44.6 | 0 |
| 20200904T122000 | 2020 | 09 | 04 | 12:20 | 68.6 | 45.3 | 0 |
| 20200904T122500 | 2020 | 09 | 04 | 12:25 | 68.5 | 44.9 | 0 |
| 20200904T123000 | 2020 | 09 | 04 | 12:30 | 68.7 | 45.4 | 0 |
| 20200904T123500 | 2020 | 09 | 04 | 12:35 | 68.5 | 43.5 | 0 |
| 20200904T124000 | 2020 | 09 | 04 | 12:40 | 68.7 | 43.9 | 0 |
| 20200904T124500 | 2020 | 09 | 04 | 12:45 | 68.7 | 44.6 | 0 |
| 20200904T125000 | 2020 | 09 | 04 | 12:50 | 69.3 | 45.8 | 0 |
| 20200904T125500 | 2020 | 09 | 04 | 12:55 | 70.2 | 47.1 | 0 |
| 20200904T130000 | 2020 | 09 | 04 | 13:00 | 69.3 | 43.6 | 0 |
| 20200904T130500 | 2020 | 09 | 04 | 13:05 | 69.3 | 44.4 | 0 |
| 20200904T131000 | 2020 | 09 | 04 | 13:10 | 69.4 | 44.6 | 0 |
| 20200904T131500 | 2020 | 09 | 04 | 13:15 | 69.9 | 45.6 | 0 |
| 20200904T132000 | 2020 | 09 | 04 | 13:20 | 69.4 | 44.5 | 0 |
| 20200904T132500 | 2020 | 09 | 04 | 13:25 | 68.5 | 44.7 | 0 |
| 20200904T133000 | 2020 | 09 | 04 | 13:30 | 67.8 | 46.5 | 0 |
| 20200904T133500 | 2020 | 09 | 04 | 13:35 | 68.6 | 45.8 | 0 |
| 20200904T134000 | 2020 | 09 | 04 | 13:40 | 68.5 | 44 | 0 |
| 20200904T134500 | 2020 | 09 | 04 | 13:45 | 68.2 | 44.5 | 0 |
| 20200904T135000 | 2020 | 09 | 04 | 13:50 | 69.2 | 45.7 | 0 |
| 20200904T135500 | 2020 | 09 | 04 | 13:55 | 69.7 | 45.1 | 0 |
| 20200904T140000 | 2020 | 09 | 04 | 14:00 | 69.3 | 45.4 | 0 |
| 20200904T140500 | 2020 | 09 | 04 | 14:05 | 69.1 | 45.9 | 0 |
| 20200904T141000 | 2020 | 09 | 04 | 14:10 | 68.8 | 45.5 | 0 |
| 20200904T141500 | 2020 | 09 | 04 | 14:15 | 68.8 | 46.5 | 0 |
| 20200904T142000 | 2020 | 09 | 04 | 14:20 | 68.2 | 45.9 | 0 |
| 20200904T142500 | 2020 | 09 | 04 | 14:25 | 69.9 | 47.5 | 0 |
| 20200904T143000 | 2020 | 09 | 04 | 14:30 | 70.6 | 48.2 | 0 |
| 20200904T143500 | 2020 | 09 | 04 | 14:35 | 68.7 | 48.4 | 0 |
| 20200904T144000 | 2020 | 09 | 04 | 14:40 | 68 | 49.5 | 0 |
| 20200904T144500 | 2020 | 09 | 04 | 14:45 | 68.7 | 50.5 | 0 |
| 20200904T145000 | 2020 | 09 | 04 | 14:50 | 70.3 | 49.6 | 0 |
| 20200904T145500 | 2020 | 09 | 04 | 14:55 | 70.5 | 48.8 | 0 |
| 20200904T150000 | 2020 | 09 | 04 | 15:00 | 70.4 | 49.1 | 0 |
| 20200904T150500 | 2020 | 09 | 04 | 15:05 | 69 | 49.5 | 0 |
| 20200904T151000 | 2020 | 09 | 04 | 15:10 | 69.9 | 49.1 | 0 |
| 20200904T151500 | 2020 | 09 | 04 | 15:15 | 70.4 | 49.4 | 0 |
| 20200904T152000 | 2020 | 09 | 04 | 15:20 | 70.2 | 49.9 | 0 |
| 20200904T152500 | 2020 | 09 | 04 | 15:25 | 70.2 | 48.4 | 0 |
| 20200904T153000 | 2020 | 09 | 04 | 15:30 | 68.2 | 50.1 | 0 |
| 20200904T153500 | 2020 | 09 | 04 | 15:35 | 69 | 49.9 | 0 |
| 20200904T154000 | 2020 | 09 | 04 | 15:40 | 69.6 | 50.3 | 0 |
| 20200904T154500 | 2020 | 09 | 04 | 15:45 | 70.2 | 49.8 | 0 |
| 20200904T155000 | 2020 | 09 | 04 | 15:50 | 70 | 49.3 | 0 |
| 20200904T155500 | 2020 | 09 | 04 | 15:55 | 69.8 | 49.8 | 0 |
| 20200904T160000 | 2020 | 09 | 04 | 16:00 | 69.7 | 49.8 | 0 |
| 20200904T160500 | 2020 | 09 | 04 | 16:05 | 69.5 | 50.2 | 0 |
| 20200904T161000 | 2020 | 09 | 04 | 16:10 | 70 | 50.6 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200904T161500 | 2020 | 09 | 04 | 16:15 | 69.5 | 49.5 | 0 |
| 20200904T162000 | 2020 | 09 | 04 | 16:20 | 69.5 | 51.9 | 0 |
| 20200904T162500 | 2020 | 09 | 04 | 16:25 | 70.3 | 49.6 | 0 |
| 20200904T163000 | 2020 | 09 | 04 | 16:30 | 69.7 | 50 | 0 |
| 20200904T163500 | 2020 | 09 | 04 | 16:35 | 69.4 | 50.7 | 0 |
| 20200904T164000 | 2020 | 09 | 04 | 16:40 | 69.3 | 50.9 | 0 |
| 20200904T164500 | 2020 | 09 | 04 | 16:45 | 68.8 | 51.8 | 0 |
| 20200904T165000 | 2020 | 09 | 04 | 16:50 | 68.4 | 51.8 | 0 |
| 20200904T165500 | 2020 | 09 | 04 | 16:55 | 67.8 | 53.4 | 0 |
| 20200904T170000 | 2020 | 09 | 04 | 17:00 | 69.1 | 52.8 | 0 |
| 20200904T170500 | 2020 | 09 | 04 | 17:05 | 68.8 | 51.5 | 0 |
| 20200904T171000 | 2020 | 09 | 04 | 17:10 | 67.5 | 53.6 | 0 |
| 20200904T171500 | 2020 | 09 | 04 | 17:15 | 67.4 | 54 | 0 |
| 20200904T172000 | 2020 | 09 | 04 | 17:20 | 67.3 | 54.4 | 0 |
| 20200904T172500 | 2020 | 09 | 04 | 17:25 | 67.1 | 54.1 | 0 |
| 20200904T173000 | 2020 | 09 | 04 | 17:30 | 66.8 | 54.1 | 0 |
| 20200904T173500 | 2020 | 09 | 04 | 17:35 | 66.6 | 55.6 | 0 |
| 20200904T174000 | 2020 | 09 | 04 | 17:40 | 66.8 | 54.3 | 0 |
| 20200904T174500 | 2020 | 09 | 04 | 17:45 | 66.7 | 54.5 | 0 |
| 20200904T175000 | 2020 | 09 | 04 | 17:50 | 66.6 | 55.1 | 0 |
| 20200904T175500 | 2020 | 09 | 04 | 17:55 | 66.4 | 55.7 | 0 |
| 20200904T180000 | 2020 | 09 | 04 | 18:00 | 66.3 | 56.2 | 0 |
| 20200904T180500 | 2020 | 09 | 04 | 18:05 | 65.9 | 57.7 | 0 |
| 20200904T181000 | 2020 | 09 | 04 | 18:10 | 65.9 | 57.6 | 0 |
| 20200904T181500 | 2020 | 09 | 04 | 18:15 | 65.9 | 58.1 | 0 |
| 20200904T182000 | 2020 | 09 | 04 | 18:20 | 65.9 | 58.3 | 0 |
| 20200904T182500 | 2020 | 09 | 04 | 18:25 | 65.7 | 58.9 | 0 |
| 20200904T183000 | 2020 | 09 | 04 | 18:30 | 65.5 | 59.2 | 0 |
| 20200904T183500 | 2020 | 09 | 04 | 18:35 | 65.5 | 59.5 | 0 |
| 20200904T184000 | 2020 | 09 | 04 | 18:40 | 65.5 | 59.8 | 0 |
| 20200904T184500 | 2020 | 09 | 04 | 18:45 | 65.4 | 60.3 | 0 |
| 20200904T185000 | 2020 | 09 | 04 | 18:50 | 65.3 | 60.9 | 0 |
| 20200904T185500 | 2020 | 09 | 04 | 18:55 | 65.2 | 62 | 0 |
| 20200904T190000 | 2020 | 09 | 04 | 19:00 | 64.4 | 64.7 | 0 |
| 20200904T190500 | 2020 | 09 | 04 | 19:05 | 63.1 | 70.7 | 0.047 |
| 20200904T191000 | 2020 | 09 | 04 | 19:10 | 61.4 | 74.2 | 0.011 |
| 20200904T191500 | 2020 | 09 | 04 | 19:15 | 61.2 | 75.2 | 0 |
| 20200904T192000 | 2020 | 09 | 04 | 19:20 | 61.2 | 78.5 | 0.008 |
| 20200904T192500 | 2020 | 09 | 04 | 19:25 | 61.1 | 79.8 | 0 |
| 20200904T193000 | 2020 | 09 | 04 | 19:30 | 61.2 | 80.5 | 0 |
| 20200904T193500 | 2020 | 09 | 04 | 19:35 | 61.2 | 80.8 | 0 |
| 20200904T194000 | 2020 | 09 | 04 | 19:40 | 61 | 82 | 0 |
| 20200904T194500 | 2020 | 09 | 04 | 19:45 | 60.7 | 84 | 0 |
| 20200904T195000 | 2020 | 09 | 04 | 19:50 | 60.7 | 84.4 | 0 |
| 20200904T195500 | 2020 | 09 | 04 | 19:55 | 60.4 | 87.1 | 0 |
| 20200904T200000 | 2020 | 09 | 04 | 20:00 | 60.4 | 89.6 | 0 |
| 20200904T200500 | 2020 | 09 | 04 | 20:05 | 60.3 | 89.1 | 0 |
| 20200904T201000 | 2020 | 09 | 04 | 20:10 | 60.2 | 88.2 | 0 |
| 20200904T201500 | 2020 | 09 | 04 | 20:15 | 60 | 86.5 | 0 |
| 20200904T202000 | 2020 | 09 | 04 | 20:20 | 59.9 | 84.6 | 0 |
| 20200904T202500 | 2020 | 09 | 04 | 20:25 | 59.2 | 87.4 | 0 |

Table C-1: Summer SUNY MesoNet Meteorological Data (Batavia Station)

| Raw Date/Time | Year | Month | Day | Time | Temperature [F] | Relative Humidity [%] | Precipitation [in] |
|---|---|---|---|---|---|---|---|
| 20200904T203000 | 2020 | 09 | 04 | 20:30 | 59.5 | 83.8 | 0 |
| 20200904T203500 | 2020 | 09 | 04 | 20:35 | 59.4 | 82.2 | 0 |
| 20200904T204000 | 2020 | 09 | 04 | 20:40 | 59.4 | 76.9 | 0 |
| 20200904T204500 | 2020 | 09 | 04 | 20:45 | 59.5 | 76.7 | 0 |
| 20200904T205000 | 2020 | 09 | 04 | 20:50 | 59.6 | 75.5 | 0 |
| 20200904T205500 | 2020 | 09 | 04 | 20:55 | 59 | 77.5 | 0 |
| 20200904T210000 | 2020 | 09 | 04 | 21:00 | 58.4 | 79.1 | 0 |
| 20200904T210500 | 2020 | 09 | 04 | 21:05 | 58.3 | 78.6 | 0 |
| 20200904T211000 | 2020 | 09 | 04 | 21:10 | 57.7 | 78.9 | 0 |
| 20200904T211500 | 2020 | 09 | 04 | 21:15 | 57.5 | 79.2 | 0 |
| 20200904T212000 | 2020 | 09 | 04 | 21:20 | 57.5 | 80.2 | 0 |
| 20200904T212500 | 2020 | 09 | 04 | 21:25 | 57.2 | 85.7 | 0 |
| 20200904T213000 | 2020 | 09 | 04 | 21:30 | 57.1 | 89.4 | 0 |
| 20200904T213500 | 2020 | 09 | 04 | 21:35 | 56.9 | 88.5 | 0 |
| 20200904T214000 | 2020 | 09 | 04 | 21:40 | 56.1 | 90.6 | 0 |
| 20200904T214500 | 2020 | 09 | 04 | 21:45 | 56.7 | 88.1 | 0 |
| 20200904T215000 | 2020 | 09 | 04 | 21:50 | 56.7 | 86.1 | 0 |
| 20200904T215500 | 2020 | 09 | 04 | 21:55 | 56.7 | 86.2 | 0 |
| 20200904T220000 | 2020 | 09 | 04 | 22:00 | 56.5 | 85.5 | 0 |
| 20200904T220500 | 2020 | 09 | 04 | 22:05 | 56.6 | 82.3 | 0 |
| 20200904T221000 | 2020 | 09 | 04 | 22:10 | 56.3 | 82.5 | 0 |
| 20200904T221500 | 2020 | 09 | 04 | 22:15 | 56.8 | 79 | 0 |
| 20200904T222000 | 2020 | 09 | 04 | 22:20 | 57 | 76.9 | 0 |
| 20200904T222500 | 2020 | 09 | 04 | 22:25 | 57.2 | 75.3 | 0 |
| 20200904T223000 | 2020 | 09 | 04 | 22:30 | 57.1 | 74.9 | 0 |
| 20200904T223500 | 2020 | 09 | 04 | 22:35 | 56.4 | 77.5 | 0 |
| 20200904T224000 | 2020 | 09 | 04 | 22:40 | 55.7 | 80.6 | 0 |
| 20200904T224500 | 2020 | 09 | 04 | 22:45 | 55.5 | 81.9 | 0 |
| 20200904T225000 | 2020 | 09 | 04 | 22:50 | 55.5 | 82.3 | 0 |
| 20200904T225500 | 2020 | 09 | 04 | 22:55 | 55.3 | 82.1 | 0 |
| 20200904T230000 | 2020 | 09 | 04 | 23:00 | 54.9 | 83.3 | 0 |
| 20200904T230500 | 2020 | 09 | 04 | 23:05 | 54.8 | 83.8 | 0 |
| 20200904T231000 | 2020 | 09 | 04 | 23:10 | 54.9 | 84 | 0 |
| 20200904T231500 | 2020 | 09 | 04 | 23:15 | 54.5 | 85.1 | 0 |
| 20200904T232000 | 2020 | 09 | 04 | 23:20 | 54.5 | 83.9 | 0 |
| 20200904T232500 | 2020 | 09 | 04 | 23:25 | 54.9 | 82.8 | 0 |
| 20200904T233000 | 2020 | 09 | 04 | 23:30 | 54.9 | 82.5 | 0 |
| 20200904T233500 | 2020 | 09 | 04 | 23:35 | 54.4 | 85.7 | 0 |
| 20200904T234000 | 2020 | 09 | 04 | 23:40 | 53.9 | 89.2 | 0 |
| 20200904T234500 | 2020 | 09 | 04 | 23:45 | 54.1 | 88.8 | 0 |
| 20200904T235000 | 2020 | 09 | 04 | 23:50 | 54.3 | 86.1 | 0 |
| 20200904T235500 | 2020 | 09 | 04 | 23:55 | 54.2 | 85.6 | 0 |

# APPENDIX 7-A.4: PROJECT MODELED SOUND LEVELS – $L_{EQ}$ (8-HOUR)

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1 | Residential | Non-Participating | 721444.24 | 4774819.36 | 33 | 35 | 35 | 31 | 28 | 34 | 26 | 23 | 21 | 0 |
| 2 | Residential | Non-Participating | 721250.90 | 4775573.07 | 25 | 29 | 29 | 25 | 23 | 27 | 17 | 11 | 0 | 0 |
| 4 | Residential | Non-Participating | 721358.43 | 4775598.79 | 26 | 29 | 29 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 5 | Residential | Non-Participating | 721438.57 | 4775223.58 | 30 | 33 | 32 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 6 | Residential | Non-Participating | 721445.68 | 4775152.10 | 30 | 33 | 33 | 28 | 26 | 31 | 23 | 18 | 12 | 0 |
| 8 | Residential | Non-Participating | 721417.80 | 4774766.28 | 33 | 35 | 35 | 31 | 28 | 34 | 26 | 23 | 22 | 0 |
| 9 | Residential | Non-Participating | 721348.94 | 4775222.99 | 29 | 32 | 32 | 27 | 25 | 30 | 22 | 16 | 7 | 0 |
| 10 | Residential | Non-Participating | 721374.17 | 4774839.15 | 32 | 35 | 34 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 12 | Residential | Non-Participating | 721436.97 | 4774870.99 | 33 | 35 | 35 | 31 | 27 | 33 | 26 | 22 | 20 | 0 |
| 14 | Residential | Non-Participating | 721239.83 | 4775005.35 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 9 | 0 |
| 15 | Residential | Non-Participating | 721398.19 | 4775073.21 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 13 | 0 |
| 16 | Residential | Non-Participating | 720754.57 | 4775114.67 | 24 | 29 | 29 | 24 | 21 | 26 | 16 | 8 | 0 | 0 |
| 17 | Residential | Non-Participating | 720947.49 | 4775125.92 | 26 | 30 | 30 | 25 | 22 | 27 | 18 | 11 | 0 | 0 |
| 19 | Residential | Non-Participating | 721236.82 | 4775148.32 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 16 | 6 | 0 |
| 21 | Residential | Non-Participating | 721298.18 | 4775150.69 | 29 | 33 | 32 | 27 | 25 | 30 | 22 | 17 | 8 | 0 |
| 22 | Residential | Non-Participating | 721375.37 | 4775152.74 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 23 | Residential | Non-Participating | 721496.48 | 4775161.42 | 30 | 33 | 33 | 29 | 26 | 32 | 23 | 19 | 14 | 0 |
| 27 | Residential | Non-Participating | 721025.31 | 4775183.76 | 26 | 30 | 30 | 25 | 23 | 28 | 19 | 12 | 0 | 0 |
| 29 | Residential | Non-Participating | 721418.14 | 4775276.00 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 31 | Residential | Non-Participating | 721342.77 | 4775305.43 | 29 | 33 | 32 | 27 | 25 | 30 | 22 | 16 | 5 | 0 |
| 33 | Residential | Non-Participating | 721402.66 | 4775323.35 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 7 | 0 |
| 35 | Residential | Non-Participating | 721342.73 | 4775335.40 | 29 | 33 | 32 | 27 | 24 | 30 | 21 | 16 | 5 | 0 |
| 38 | Residential | Non-Participating | 721388.89 | 4775368.01 | 29 | 33 | 33 | 27 | 25 | 30 | 22 | 16 | 5 | 0 |
| 41 | Residential | Non-Participating | 721377.25 | 4775438.39 | 29 | 33 | 32 | 27 | 24 | 30 | 21 | 15 | 4 | 0 |
| 42 | Residential | Non-Participating | 721300.63 | 4775439.01 | 26 | 29 | 29 | 25 | 23 | 28 | 18 | 12 | 0 | 0 |
| 45 | Residential | Non-Participating | 721350.75 | 4775475.19 | 25 | 28 | 27 | 25 | 23 | 27 | 17 | 11 | 0 | 0 |
| 46 | Residential | Non-Participating | 721357.27 | 4775527.28 | 26 | 30 | 29 | 26 | 23 | 28 | 19 | 13 | 1 | 0 |
| 49 | Residential | Non-Participating | 729873.29 | 4775778.19 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 50 | Residential | Non-Participating | 729939.14 | 4775783.38 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 22 | 0 |
| 51 | Residential | Non-Participating | 729795.23 | 4775782.85 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 52 | Residential | Non-Participating | 729842.04 | 4775784.65 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 53 | Residential | Non-Participating | 729603.31 | 4775779.65 | 35 | 37 | 37 | 33 | 29 | 35 | 28 | 24 | 22 | 0 |
| 54 | Residential | Non-Participating | 730075.76 | 4775797.65 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 55 | Residential | Non-Participating | 730365.70 | 4775802.84 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 24 | 22 | 0 |
| 58 | Residential | Non-Participating | 730016.13 | 4775783.53 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 66 | Residential | Non-Participating | 730145.08 | 4775833.94 | 33 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 16 | 0 |
| 69 | Residential | Non-Participating | 731081.44 | 4773946.96 | 22 | 26 | 26 | 23 | 20 | 24 | 14 | 6 | 0 | 0 |
| 70 | Residential | Non-Participating | 730996.74 | 4773988.38 | 22 | 25 | 25 | 23 | 20 | 24 | 13 | 6 | 0 | 0 |
| 72 | Residential | Non-Participating | 730629.86 | 4773989.17 | 22 | 24 | 24 | 23 | 21 | 24 | 12 | 4 | 0 | 0 |
| 73 | Residential | Non-Participating | 730563.48 | 4773953.39 | 22 | 24 | 24 | 23 | 21 | 24 | 12 | 3 | 0 | 0 |
| 74 | Residential | Non-Participating | 731225.66 | 4773949.56 | 23 | 28 | 28 | 23 | 20 | 25 | 14 | 6 | 0 | 0 |
| 75 | Residential | Non-Participating | 730739.14 | 4773912.10 | 22 | 24 | 24 | 23 | 20 | 23 | 13 | 4 | 0 | 0 |
| 76 | Residential | Non-Participating | 731148.87 | 4773927.79 | 23 | 28 | 28 | 23 | 20 | 25 | 14 | 6 | 0 | 0 |
| 82 | Residential | Non-Participating | 725816.16 | 4771930.09 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 83 | Residential | Non-Participating | 725514.51 | 4771917.72 | 18 | 22 | 22 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 84 | Residential | Non-Participating | 725714.85 | 4771919.33 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 85 | Residential | Non-Participating | 725657.11 | 4771913.93 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 87 | Residential | Non-Participating | 725769.99 | 4771851.99 | 18 | 22 | 23 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 88 | Residential | Non-Participating | 725809.57 | 4771853.60 | 18 | 22 | 22 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 89 | Residential | Non-Participating | 725611.13 | 4771852.51 | 18 | 23 | 23 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 90 | Residential | Non-Participating | 726091.65 | 4771857.51 | 18 | 22 | 22 | 22 | 18 | 20 | 8 | 0 | 0 | 0 |
| 94 | Residential | Non-Participating | 726095.72 | 4771800.34 | 18 | 21 | 21 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 95 | Residential | Non-Participating | 726042.91 | 4771681.08 | 17 | 20 | 21 | 21 | 17 | 19 | 5 | 0 | 0 | 0 |
| 102 | Residential | Non-Participating | 725966.27 | 4772022.81 | 22 | 29 | 29 | 23 | 20 | 24 | 13 | 5 | 0 | 0 |
| 112 | Residential | Non-Participating | 722372.96 | 4775085.15 | 38 | 39 | 39 | 36 | 32 | 38 | 30 | 28 | 29 | 2 |
| 113 | Residential | Non-Participating | 722105.32 | 4775079.25 | 37 | 38 | 38 | 35 | 32 | 38 | 30 | 27 | 28 | 0 |
| 114 | Residential | Non-Participating | 722025.70 | 4775078.79 | 37 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 29 | 1 |
| 115 | Residential | Non-Participating | 722357.20 | 4775122.97 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 29 | 1 |
| 116 | Residential | Non-Participating | 721750.54 | 4775111.42 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 24 | 23 | 0 |
| 117 | Residential | Non-Participating | 721667.54 | 4775158.55 | 33 | 35 | 35 | 31 | 28 | 34 | 25 | 22 | 19 | 0 |
| 118 | Residential | Non-Participating | 721885.31 | 4775169.22 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 119 | Residential | Non-Participating | 722368.27 | 4775189.34 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 31 | 8 |
| 120 | Residential | Non-Participating | 721630.11 | 4775174.75 | 32 | 34 | 34 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 121 | Residential | Non-Participating | 721928.80 | 4775199.82 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 26 | 25 | 0 |
| 124 | Residential | Non-Participating | 722281.08 | 4775095.14 | 38 | 40 | 39 | 36 | 32 | 38 | 31 | 28 | 29 | 0 |
| 126 | Residential | Non-Participating | 721155.40 | 4774200.75 | 29 | 33 | 33 | 27 | 24 | 30 | 22 | 17 | 13 | 0 |
| 127 | Residential | Non-Participating | 721394.91 | 4774690.71 | 34 | 36 | 36 | 32 | 28 | 34 | 27 | 24 | 24 | 0 |
| 129 | Residential | Non-Participating | 721281.00 | 4774300.22 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 22 | 21 | 0 |
| 132 | Residential | Non-Participating | 721278.64 | 4774584.27 | 33 | 35 | 35 | 31 | 27 | 33 | 25 | 22 | 22 | 0 |
| 136 | Residential | Non-Participating | 721047.53 | 4774140.06 | 27 | 32 | 32 | 26 | 23 | 29 | 20 | 15 | 7 | 0 |
| 140 | Residential | Non-Participating | 732052.47 | 4774010.73 | 18 | 22 | 22 | 20 | 17 | 20 | 9 | 0 | 0 | 0 |
| 141 | Residential | Non-Participating | 731884.92 | 4774007.98 | 18 | 20 | 20 | 21 | 18 | 20 | 7 | 0 | 0 | 0 |
| 142 | Residential | Non-Participating | 732057.81 | 4774082.58 | 18 | 22 | 22 | 21 | 18 | 20 | 9 | 0 | 0 | 0 |
| 143 | Residential | Non-Participating | 732187.46 | 4774094.18 | 18 | 21 | 21 | 20 | 17 | 20 | 8 | 0 | 0 | 0 |
| 145 | Residential | Non-Participating | 731778.43 | 4774143.89 | 21 | 25 | 25 | 22 | 19 | 23 | 13 | 5 | 0 | 0 |
| 147 | Residential | Non-Participating | 724194.25 | 4777091.81 | 29 | 33 | 34 | 29 | 25 | 30 | 22 | 16 | 8 | 0 |
| 150 | Residential | Non-Participating | 723656.49 | 4773370.52 | 25 | 31 | 31 | 25 | 23 | 27 | 17 | 9 | 0 | 0 |
| 151 | Residential | Non-Participating | 723726.55 | 4773352.67 | 25 | 31 | 31 | 25 | 23 | 27 | 17 | 8 | 0 | 0 |
| 153 | Residential | Non-Participating | 724080.78 | 4773322.69 | 23 | 29 | 30 | 26 | 22 | 25 | 14 | 2 | 0 | 0 |
| 155 | Residential | Non-Participating | 723487.51 | 4773282.37 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 156 | Residential | Non-Participating | 723430.22 | 4773252.51 | 25 | 31 | 32 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 157 | Residential | Non-Participating | 724139.27 | 4773265.70 | 23 | 29 | 31 | 26 | 22 | 25 | 14 | 2 | 0 | 0 |
| 159 | Residential | Non-Participating | 723669.75 | 4773152.78 | 24 | 30 | 30 | 25 | 21 | 26 | 15 | 4 | 0 | 0 |
| 160 | Residential | Non-Participating | 723679.00 | 4773047.54 | 23 | 30 | 29 | 24 | 21 | 25 | 14 | 1 | 0 | 0 |
| 162 | Residential | Non-Participating | 724071.22 | 4773625.65 | 28 | 34 | 34 | 28 | 25 | 30 | 20 | 12 | 0 | 0 |
| 163 | Residential | Non-Participating | 724068.17 | 4773563.24 | 26 | 33 | 33 | 27 | 24 | 28 | 18 | 8 | 0 | 0 |
| 166 | Residential | Non-Participating | 723958.72 | 4773505.15 | 24 | 29 | 29 | 25 | 23 | 26 | 15 | 5 | 0 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 167 | Residential | Non-Participating | 723835.19 | 4773501.33 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 11 | 0 | 0 |
| 168 | Residential | Non-Participating | 723675.05 | 4773455.48 | 26 | 32 | 32 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 175 | Residential | Non-Participating | 729710.98 | 4776892.58 | 32 | 35 | 35 | 31 | 27 | 33 | 25 | 22 | 19 | 0 |
| 178 | Residential | Non-Participating | 729758.86 | 4776841.81 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 179 | Residential | Non-Participating | 730341.31 | 4777505.17 | 26 | 31 | 32 | 26 | 22 | 27 | 18 | 10 | 0 | 0 |
| 180 | Residential | Non-Participating | 730332.85 | 4777455.33 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 181 | Residential | Non-Participating | 730419.48 | 4777448.31 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 182 | Residential | Non-Participating | 730397.07 | 4777391.97 | 27 | 33 | 33 | 26 | 23 | 29 | 20 | 13 | 0 | 0 |
| 183 | Residential | Non-Participating | 730282.34 | 4777353.86 | 28 | 33 | 33 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 186 | Residential | Non-Participating | 730068.30 | 4777289.94 | 29 | 33 | 33 | 27 | 24 | 30 | 21 | 15 | 5 | 0 |
| 187 | Residential | Non-Participating | 730189.21 | 4777278.94 | 29 | 33 | 33 | 28 | 24 | 30 | 21 | 15 | 5 | 0 |
| 189 | Residential | Non-Participating | 729728.59 | 4777228.39 | 28 | 33 | 33 | 28 | 25 | 30 | 21 | 14 | 3 | 0 |
| 190 | Residential | Non-Participating | 729710.66 | 4777219.08 | 28 | 33 | 33 | 28 | 25 | 30 | 21 | 14 | 3 | 0 |
| 192 | Residential | Non-Participating | 730047.50 | 4777204.44 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 196 | Residential | Non-Participating | 729940.00 | 4777038.55 | 31 | 35 | 34 | 30 | 26 | 32 | 24 | 20 | 15 | 0 |
| 197 | Residential | Non-Participating | 729792.79 | 4776992.77 | 31 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 16 | 0 |
| 204 | Residential | Non-Participating | 731561.89 | 4777454.80 | 18 | 21 | 22 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 208 | Residential | Non-Participating | 731942.16 | 4777535.65 | 17 | 21 | 21 | 20 | 17 | 19 | 6 | 0 | 0 | 0 |
| 209 | Residential | Non-Participating | 726577.69 | 4773017.75 | 35 | 37 | 37 | 33 | 29 | 35 | 28 | 25 | 25 | 0 |
| 211 | Residential | Non-Participating | 726570.29 | 4772515.35 | 30 | 31 | 31 | 28 | 25 | 30 | 22 | 19 | 20 | 0 |
| 212 | Residential | Non-Participating | 726635.52 | 4772650.59 | 33 | 33 | 33 | 30 | 26 | 32 | 25 | 23 | 25 | 0 |
| 213 | Residential | Non-Participating | 726490.56 | 4772612.30 | 34 | 34 | 33 | 32 | 27 | 33 | 26 | 24 | 28 | 4 |
| 215 | Residential | Non-Participating | 726574.02 | 4772408.25 | 27 | 29 | 29 | 26 | 23 | 28 | 19 | 16 | 14 | 0 |
| 216 | Residential | Non-Participating | 721203.78 | 4776139.38 | 24 | 29 | 28 | 24 | 21 | 26 | 16 | 8 | 0 | 0 |
| 218 | Residential | Non-Participating | 721232.73 | 4776003.54 | 25 | 29 | 29 | 24 | 22 | 26 | 17 | 9 | 0 | 0 |
| 219 | Residential | Non-Participating | 721253.19 | 4775886.45 | 25 | 29 | 28 | 24 | 22 | 26 | 17 | 10 | 0 | 0 |
| 220 | Residential | Non-Participating | 721206.61 | 4775869.91 | 24 | 28 | 28 | 24 | 22 | 26 | 16 | 9 | 0 | 0 |
| 221 | Residential | Non-Participating | 721281.29 | 4775855.13 | 25 | 29 | 28 | 25 | 22 | 27 | 17 | 10 | 0 | 0 |
| 222 | Residential | Non-Participating | 721215.85 | 4775832.62 | 24 | 28 | 28 | 24 | 22 | 26 | 16 | 9 | 0 | 0 |
| 226 | Residential | Non-Participating | 728200.73 | 4773243.88 | 21 | 23 | 24 | 24 | 21 | 23 | 10 | 0 | 0 | 0 |
| 229 | Residential | Non-Participating | 727926.92 | 4773165.93 | 24 | 28 | 28 | 25 | 22 | 25 | 15 | 7 | 0 | 0 |
| 230 | Residential | Non-Participating | 728027.10 | 4773175.59 | 21 | 24 | 24 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 231 | Residential | Non-Participating | 728315.16 | 4773184.88 | 21 | 25 | 25 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 232 | Residential | Non-Participating | 727991.09 | 4773175.48 | 23 | 26 | 26 | 24 | 21 | 24 | 14 | 6 | 0 | 0 |
| 233 | Residential | Non-Participating | 728391.11 | 4773189.73 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 234 | Residential | Non-Participating | 728354.93 | 4773185.77 | 21 | 25 | 25 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 236 | Residential | Non-Participating | 727942.13 | 4773217.63 | 24 | 29 | 28 | 25 | 22 | 26 | 15 | 7 | 0 | 0 |
| 237 | Residential | Non-Participating | 727894.54 | 4773215.39 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 238 | Residential | Non-Participating | 727995.59 | 4773235.65 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 6 | 0 | 0 |
| 239 | Residential | Non-Participating | 728097.66 | 4773244.28 | 21 | 24 | 24 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 241 | Residential | Non-Participating | 727938.57 | 4773896.99 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 11 | 0 | 0 |
| 245 | Residential | Non-Participating | 727941.82 | 4773829.14 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 246 | Residential | Non-Participating | 728759.34 | 4773854.42 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 247 | Residential | Non-Participating | 728736.11 | 4773849.86 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 248 | Residential | Non-Participating | 728707.21 | 4773846.95 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 250 | Residential | Non-Participating | 728650.16 | 4773838.05 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 251 | Residential | Non-Participating | 728677.01 | 4773842.04 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 252 | Residential | Non-Participating | 728595.08 | 4773831.83 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 253 | Residential | Non-Participating | 728566.17 | 4773824.45 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 255 | Residential | Non-Participating | 728045.32 | 4773810.50 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 9 | 0 | 0 |
| 256 | Residential | Non-Participating | 728122.41 | 4773811.55 | 26 | 31 | 30 | 26 | 23 | 28 | 17 | 8 | 0 | 0 |
| 258 | Residential | Non-Participating | 728539.39 | 4773820.25 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 259 | Residential | Non-Participating | 728093.92 | 4773807.33 | 26 | 31 | 30 | 26 | 24 | 28 | 17 | 9 | 0 | 0 |
| 260 | Residential | Non-Participating | 728194.37 | 4773807.03 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 261 | Residential | Non-Participating | 728381.69 | 4773806.78 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 262 | Residential | Non-Participating | 728319.88 | 4773805.84 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 7 | 0 | 0 |
| 263 | Residential | Non-Participating | 728488.66 | 4773811.49 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 264 | Residential | Non-Participating | 728409.47 | 4773804.84 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 266 | Residential | Non-Participating | 728696.53 | 4773796.53 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 267 | Residential | Non-Participating | 728747.55 | 4773802.94 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 268 | Residential | Non-Participating | 728666.23 | 4773797.32 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 269 | Residential | Non-Participating | 728722.77 | 4773798.50 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 270 | Residential | Non-Participating | 728651.43 | 4773791.41 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 271 | Residential | Non-Participating | 728619.33 | 4773789.32 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 272 | Residential | Non-Participating | 728594.10 | 4773787.29 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 273 | Residential | Non-Participating | 728563.13 | 4773784.48 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 276 | Residential | Non-Participating | 728476.47 | 4773775.26 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 281 | Residential | Non-Participating | 728530.84 | 4773763.16 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 282 | Residential | Non-Participating | 728402.85 | 4773754.82 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 284 | Residential | Non-Participating | 728385.09 | 4773738.65 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 285 | Residential | Non-Participating | 728628.02 | 4773740.81 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 286 | Residential | Non-Participating | 728467.97 | 4773737.61 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 287 | Residential | Non-Participating | 728515.52 | 4773726.20 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 289 | Residential | Non-Participating | 728747.07 | 4773729.22 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 290 | Residential | Non-Participating | 728664.41 | 4773719.61 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 292 | Residential | Non-Participating | 728691.05 | 4773715.22 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 293 | Residential | Non-Participating | 728677.45 | 4773716.32 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 296 | Residential | Non-Participating | 728646.09 | 4773685.75 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 298 | Residential | Non-Participating | 728677.71 | 4773672.04 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 299 | Residential | Non-Participating | 728712.58 | 4773661.19 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 303 | Residential | Non-Participating | 728695.95 | 4773505.28 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 306 | Residential | Non-Participating | 728271.85 | 4773304.24 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 307 | Residential | Non-Participating | 728146.07 | 4773248.45 | 21 | 23 | 23 | 24 | 21 | 23 | 10 | 0 | 0 | 0 |
| 309 | Residential | Non-Participating | 728235.69 | 4773254.34 | 21 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 310 | Residential | Non-Participating | 730099.82 | 4774185.32 | 25 | 28 | 28 | 25 | 23 | 27 | 16 | 9 | 0 | 0 |
| 312 | Residential | Non-Participating | 730073.71 | 4774167.28 | 25 | 28 | 28 | 25 | 23 | 27 | 16 | 9 | 0 | 0 |
| 313 | Residential | Non-Participating | 729885.93 | 4774161.33 | 29 | 33 | 33 | 27 | 25 | 30 | 22 | 16 | 6 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 314 | Residential | Non-Participating | 729948.86 | 4774191.54 | 29 | 33 | 33 | 27 | 25 | 30 | 21 | 16 | 7 | 0 |
| 316 | Residential | Non-Participating | 730022.97 | 4774219.17 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 6 | 0 |
| 317 | Residential | Non-Participating | 730197.71 | 4774255.36 | 27 | 31 | 30 | 26 | 24 | 29 | 19 | 13 | 1 | 0 |
| 318 | Residential | Non-Participating | 730093.87 | 4774271.95 | 29 | 34 | 33 | 28 | 25 | 31 | 22 | 16 | 7 | 0 |
| 320 | Residential | Non-Participating | 730292.58 | 4774295.99 | 28 | 32 | 31 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 321 | Residential | Non-Participating | 730166.96 | 4774304.58 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 16 | 6 | 0 |
| 326 | Residential | Non-Participating | 730431.30 | 4774406.08 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 16 | 7 | 0 |
| 327 | Residential | Non-Participating | 730202.76 | 4774395.60 | 30 | 34 | 34 | 28 | 26 | 32 | 23 | 18 | 9 | 0 |
| 328 | Residential | Non-Participating | 730331.04 | 4774403.28 | 30 | 34 | 34 | 28 | 25 | 31 | 23 | 17 | 8 | 0 |
| 331 | Residential | Non-Participating | 730477.03 | 4774453.11 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 9 | 0 |
| 332 | Residential | Non-Participating | 721609.74 | 4773171.40 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 337 | Residential | Non-Participating | 720805.19 | 4773233.34 | 18 | 26 | 26 | 21 | 17 | 19 | 7 | 0 | 0 | 0 |
| 340 | Residential | Non-Participating | 720799.40 | 4773295.74 | 18 | 25 | 25 | 21 | 17 | 20 | 8 | 0 | 0 | 0 |
| 343 | Residential | Non-Participating | 720725.08 | 4773343.58 | 20 | 27 | 26 | 21 | 18 | 22 | 11 | 0 | 0 | 0 |
| 357 | Residential | Non-Participating | 720962.68 | 4773061.00 | 19 | 28 | 27 | 21 | 17 | 21 | 9 | 0 | 0 | 0 |
| 358 | Residential | Non-Participating | 720901.30 | 4773073.10 | 18 | 27 | 26 | 21 | 17 | 20 | 8 | 0 | 0 | 0 |
| 359 | Residential | Non-Participating | 720844.87 | 4773066.72 | 18 | 26 | 26 | 20 | 17 | 20 | 7 | 0 | 0 | 0 |
| 362 | Residential | Non-Participating | 721404.49 | 4773146.11 | 23 | 30 | 30 | 23 | 20 | 24 | 14 | 4 | 0 | 0 |
| 364 | Residential | Non-Participating | 721445.82 | 4773150.31 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 365 | Residential | Non-Participating | 721324.33 | 4773144.58 | 22 | 29 | 29 | 22 | 19 | 24 | 13 | 1 | 0 | 0 |
| 366 | Residential | Non-Participating | 721500.35 | 4773154.81 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 368 | Residential | Non-Participating | 721533.78 | 4773159.83 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 4 | 0 | 0 |
| 371 | Residential | Non-Participating | 720754.81 | 4773151.13 | 17 | 25 | 25 | 20 | 16 | 19 | 5 | 0 | 0 | 0 |
| 372 | Residential | Non-Participating | 729283.10 | 4774405.12 | 32 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 16 | 0 |
| 373 | Residential | Non-Participating | 729169.12 | 4774409.14 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 13 | 0 |
| 374 | Residential | Non-Participating | 729197.60 | 4774518.61 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 375 | Residential | Non-Participating | 729214.13 | 4774594.70 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 376 | Residential | Non-Participating | 729291.50 | 4774638.73 | 36 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 27 | 0 |
| 380 | Residential | Non-Participating | 729202.42 | 4774793.43 | 35 | 37 | 37 | 33 | 29 | 35 | 28 | 25 | 24 | 0 |
| 381 | Residential | Non-Participating | 729289.10 | 4774862.65 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 27 | 29 | 3 |
| 383 | Residential | Non-Participating | 729284.04 | 4774898.68 | 37 | 37 | 37 | 34 | 31 | 37 | 29 | 26 | 28 | 0 |
| 385 | Residential | Non-Participating | 729120.27 | 4774107.71 | 28 | 32 | 32 | 27 | 24 | 29 | 20 | 13 | 1 | 0 |
| 387 | Residential | Non-Participating | 729139.66 | 4774149.00 | 28 | 32 | 32 | 27 | 24 | 29 | 20 | 14 | 3 | 0 |
| 390 | Residential | Non-Participating | 729171.45 | 4774265.89 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 16 | 8 | 0 |
| 391 | Residential | Non-Participating | 729124.31 | 4774296.74 | 29 | 34 | 33 | 28 | 25 | 31 | 22 | 16 | 8 | 0 |
| 392 | Residential | Non-Participating | 728958.10 | 4774322.18 | 29 | 33 | 33 | 28 | 25 | 30 | 21 | 15 | 3 | 0 |
| 393 | Residential | Non-Participating | 729202.17 | 4774357.05 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 12 | 0 |
| 395 | Residential | Non-Participating | 729149.53 | 4774376.05 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 11 | 0 |
| 399 | Residential | Non-Participating | 732457.26 | 4775495.72 | 21 | 26 | 26 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 400 | Residential | Non-Participating | 732386.71 | 4775423.45 | 21 | 25 | 25 | 22 | 19 | 23 | 12 | 3 | 0 | 0 |
| 401 | Residential | Non-Participating | 732442.88 | 4775400.98 | 20 | 25 | 25 | 21 | 19 | 22 | 12 | 3 | 0 | 0 |
| 403 | Residential | Non-Participating | 732426.96 | 4775364.97 | 18 | 20 | 20 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 405 | Residential | Non-Participating | 726469.31 | 4774847.53 | 40 | 41 | 41 | 37 | 33 | 40 | 32 | 30 | 32 | 11 |
| 406 | Residential | Non-Participating | 725376.78 | 4773605.51 | 29 | 34 | 34 | 28 | 25 | 31 | 21 | 13 | 0 | 0 |
| 410 | Residential | Non-Participating | 725730.08 | 4773652.04 | 30 | 35 | 35 | 29 | 26 | 32 | 23 | 16 | 3 | 0 |
| 411 | Residential | Non-Participating | 725801.60 | 4773667.29 | 30 | 35 | 35 | 29 | 26 | 32 | 23 | 16 | 6 | 0 |
| 412 | Residential | Non-Participating | 725923.56 | 4773684.66 | 31 | 35 | 35 | 30 | 27 | 32 | 24 | 18 | 10 | 0 |
| 413 | Residential | Non-Participating | 725519.84 | 4773684.95 | 30 | 35 | 34 | 29 | 26 | 31 | 22 | 15 | 0 | 0 |
| 414 | Residential | Non-Participating | 725564.14 | 4773712.43 | 30 | 35 | 35 | 29 | 26 | 32 | 22 | 15 | 0 | 0 |
| 415 | Residential | Non-Participating | 725807.21 | 4773736.35 | 31 | 35 | 35 | 30 | 27 | 32 | 23 | 17 | 5 | 0 |
| 416 | Residential | Non-Participating | 725907.67 | 4773755.90 | 31 | 35 | 35 | 30 | 27 | 33 | 24 | 18 | 8 | 0 |
| 417 | Residential | Non-Participating | 725996.58 | 4773793.92 | 32 | 36 | 36 | 30 | 27 | 33 | 24 | 19 | 10 | 0 |
| 418 | Residential | Non-Participating | 725684.35 | 4773634.06 | 30 | 35 | 34 | 29 | 26 | 31 | 22 | 15 | 2 | 0 |
| 419 | Residential | Non-Participating | 726514.90 | 4774178.67 | 36 | 38 | 38 | 34 | 30 | 36 | 28 | 25 | 23 | 0 |
| 421 | Residential | Non-Participating | 731217.87 | 4774599.79 | 26 | 25 | 25 | 26 | 24 | 28 | 17 | 12 | 8 | 0 |
| 422 | Residential | Non-Participating | 731132.41 | 4774605.26 | 26 | 26 | 25 | 26 | 25 | 28 | 17 | 12 | 8 | 0 |
| 424 | Residential | Non-Participating | 722922.89 | 4775148.12 | 36 | 38 | 38 | 33 | 30 | 36 | 29 | 25 | 23 | 0 |
| 426 | Residential | Non-Participating | 722620.69 | 4775203.20 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 30 | 7 |
| 428 | Residential | Non-Participating | 722939.56 | 4775217.32 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 429 | Residential | Non-Participating | 722583.77 | 4775206.59 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 29 | 4 |
| 434 | Residential | Non-Participating | 722896.41 | 4775222.88 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 438 | Residential | Non-Participating | 729643.61 | 4776671.50 | 36 | 37 | 37 | 33 | 29 | 36 | 28 | 25 | 27 | 1 |
| 439 | Residential | Non-Participating | 729570.88 | 4776598.02 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 24 | 24 | 0 |
| 441 | Residential | Non-Participating | 728380.62 | 4774794.38 | 32 | 35 | 35 | 31 | 27 | 33 | 25 | 20 | 16 | 0 |
| 443 | Residential | Non-Participating | 728476.10 | 4774926.24 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 22 | 19 | 0 |
| 444 | Residential | Non-Participating | 728141.22 | 4773158.51 | 21 | 23 | 23 | 24 | 21 | 22 | 10 | 0 | 0 | 0 |
| 445 | Residential | Non-Participating | 728079.16 | 4773163.48 | 21 | 23 | 23 | 24 | 21 | 23 | 10 | 0 | 0 | 0 |
| 446 | Residential | Non-Participating | 728281.13 | 4773159.53 | 21 | 24 | 24 | 24 | 20 | 22 | 10 | 0 | 0 | 0 |
| 451 | Residential | Non-Participating | 728356.64 | 4772472.10 | 20 | 28 | 28 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 452 | Residential | Non-Participating | 728290.45 | 4772463.79 | 20 | 27 | 27 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 453 | Residential | Non-Participating | 728097.71 | 4772454.49 | 21 | 27 | 27 | 23 | 19 | 22 | 11 | 0 | 0 | 0 |
| 454 | Residential | Non-Participating | 728154.49 | 4772456.41 | 20 | 27 | 27 | 23 | 19 | 22 | 11 | 0 | 0 | 0 |
| 456 | Residential | Non-Participating | 731052.54 | 4774154.81 | 23 | 25 | 25 | 24 | 21 | 24 | 14 | 7 | 0 | 0 |
| 458 | Residential | Non-Participating | 731034.22 | 4774322.34 | 23 | 23 | 23 | 24 | 22 | 25 | 14 | 8 | 0 | 0 |
| 459 | Residential | Non-Participating | 731025.02 | 4774380.84 | 24 | 24 | 24 | 25 | 23 | 26 | 15 | 9 | 0 | 0 |
| 460 | Residential | Non-Participating | 731243.37 | 4774403.63 | 24 | 24 | 24 | 24 | 22 | 25 | 14 | 9 | 0 | 0 |
| 462 | Residential | Non-Participating | 731257.63 | 4774430.58 | 24 | 24 | 24 | 24 | 23 | 26 | 15 | 9 | 1 | 0 |
| 464 | Residential | Non-Participating | 731065.40 | 4774458.36 | 25 | 24 | 24 | 25 | 23 | 26 | 16 | 10 | 3 | 0 |
| 465 | Residential | Non-Participating | 730540.74 | 4774482.22 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 466 | Residential | Non-Participating | 730574.06 | 4774504.41 | 29 | 33 | 32 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 468 | Residential | Non-Participating | 730976.46 | 4774609.09 | 27 | 26 | 26 | 27 | 25 | 28 | 18 | 13 | 8 | 0 |
| 469 | Residential | Non-Participating | 731287.34 | 4774632.13 | 26 | 25 | 25 | 26 | 25 | 28 | 17 | 13 | 10 | 0 |
| 471 | Residential | Non-Participating | 730671.92 | 4774630.30 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 473 | Residential | Non-Participating | 731345.22 | 4774667.44 | 27 | 25 | 25 | 26 | 25 | 28 | 18 | 14 | 11 | 0 |
| 474 | Residential | Non-Participating | 730798.58 | 4774651.01 | 33 | 36 | 35 | 31 | 27 | 34 | 26 | 22 | 18 | 0 |
| 476 | Residential | Non-Participating | 730850.15 | 4774664.26 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 22 | 19 | 0 |
| 479 | Residential | Non-Participating | 731190.60 | 4774696.78 | 28 | 27 | 26 | 27 | 26 | 29 | 19 | 15 | 13 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 480 | Residential | Non-Participating | 731233.86 | 4774711.91 | 28 | 27 | 27 | 28 | 26 | 30 | 19 | 16 | 15 | 0 |
| 484 | Residential | Non-Participating | 731410.23 | 4774783.16 | 31 | 31 | 31 | 29 | 26 | 31 | 23 | 20 | 20 | 0 |
| 485 | Residential | Non-Participating | 731355.45 | 4774819.89 | 34 | 34 | 34 | 32 | 28 | 34 | 26 | 24 | 26 | 0 |
| 487 | Residential | Non-Participating | 731400.62 | 4774848.49 | 34 | 35 | 35 | 32 | 28 | 34 | 27 | 24 | 26 | 0 |
| 490 | Residential | Non-Participating | 725481.55 | 4775646.09 | 39 | 40 | 41 | 37 | 33 | 39 | 31 | 28 | 31 | 9 |
| 493 | Residential | Non-Participating | 725609.06 | 4775531.37 | 34 | 37 | 39 | 35 | 31 | 35 | 27 | 21 | 17 | 0 |
| 494 | Residential | Non-Participating | 726000.27 | 4775543.61 | 36 | 38 | 41 | 37 | 33 | 36 | 29 | 24 | 24 | 0 |
| 496 | Residential | Non-Participating | 725155.47 | 4775492.08 | 35 | 36 | 36 | 34 | 31 | 36 | 27 | 24 | 24 | 0 |
| 497 | Residential | Non-Participating | 726499.43 | 4773815.63 | 33 | 36 | 36 | 32 | 29 | 34 | 26 | 22 | 19 | 0 |
| 499 | Residential | Non-Participating | 726578.49 | 4773124.46 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 25 | 0 |
| 500 | Residential | Non-Participating | 726740.59 | 4773733.14 | 36 | 38 | 38 | 34 | 30 | 37 | 29 | 26 | 25 | 0 |
| 501 | Residential | Non-Participating | 726738.21 | 4773745.37 | 36 | 38 | 38 | 34 | 30 | 36 | 29 | 25 | 24 | 0 |
| 502 | Residential | Non-Participating | 726811.30 | 4773727.78 | 36 | 39 | 38 | 34 | 31 | 37 | 29 | 26 | 26 | 0 |
| 503 | Residential | Non-Participating | 726884.80 | 4773761.13 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 26 | 27 | 0 |
| 504 | Residential | Non-Participating | 726556.95 | 4773805.94 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 505 | Residential | Non-Participating | 728404.50 | 4776021.03 | 28 | 31 | 33 | 29 | 26 | 29 | 19 | 11 | 0 | 0 |
| 508 | Residential | Non-Participating | 728471.87 | 4776377.38 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 10 | 0 |
| 510 | Residential | Non-Participating | 728475.58 | 4776335.38 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 10 | 0 |
| 516 | Residential | Non-Participating | 731141.44 | 4775781.92 | 33 | 35 | 34 | 31 | 28 | 34 | 26 | 23 | 22 | 0 |
| 517 | Residential | Non-Participating | 730784.71 | 4775773.60 | 34 | 34 | 34 | 32 | 30 | 35 | 26 | 23 | 24 | 0 |
| 518 | Residential | Non-Participating | 731188.19 | 4775834.08 | 35 | 35 | 35 | 32 | 29 | 35 | 27 | 25 | 27 | 2 |
| 520 | Residential | Non-Participating | 725568.18 | 4776896.20 | 39 | 39 | 40 | 37 | 33 | 38 | 31 | 29 | 34 | 17 |
| 522 | Residential | Non-Participating | 725799.55 | 4776942.37 | 33 | 37 | 40 | 35 | 30 | 34 | 26 | 20 | 19 | 0 |
| 525 | Residential | Non-Participating | 725659.02 | 4776858.18 | 37 | 38 | 40 | 36 | 31 | 36 | 29 | 26 | 29 | 8 |
| 526 | Residential | Non-Participating | 725694.41 | 4776864.47 | 36 | 38 | 40 | 36 | 31 | 35 | 28 | 24 | 27 | 2 |
| 527 | Residential | Non-Participating | 725745.37 | 4776873.27 | 34 | 37 | 40 | 35 | 31 | 35 | 27 | 23 | 23 | 0 |
| 528 | Residential | Non-Participating | 722308.67 | 4773252.42 | 25 | 32 | 32 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 530 | Residential | Non-Participating | 722286.55 | 4772992.47 | 23 | 30 | 30 | 24 | 20 | 24 | 14 | 2 | 0 | 0 |
| 533 | Residential | Non-Participating | 722488.87 | 4773133.79 | 23 | 30 | 31 | 24 | 21 | 25 | 15 | 4 | 0 | 0 |
| 535 | Residential | Non-Participating | 721951.02 | 4773179.47 | 24 | 31 | 31 | 24 | 21 | 26 | 16 | 6 | 0 | 0 |
| 536 | Residential | Non-Participating | 721810.59 | 4773174.89 | 24 | 31 | 30 | 24 | 21 | 25 | 15 | 5 | 0 | 0 |
| 537 | Residential | Non-Participating | 721888.23 | 4773225.02 | 24 | 31 | 31 | 24 | 21 | 26 | 16 | 6 | 0 | 0 |
| 539 | Residential | Non-Participating | 729247.86 | 4776115.16 | 31 | 34 | 34 | 30 | 27 | 32 | 24 | 18 | 11 | 0 |
| 542 | Residential | Non-Participating | 729135.55 | 4776074.64 | 31 | 34 | 34 | 30 | 27 | 32 | 23 | 18 | 10 | 0 |
| 543 | Residential | Non-Participating | 729223.99 | 4776058.44 | 31 | 34 | 34 | 30 | 27 | 32 | 24 | 18 | 10 | 0 |
| 546 | Residential | Non-Participating | 729179.94 | 4775742.74 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 548 | Residential | Non-Participating | 729299.49 | 4775753.64 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 549 | Residential | Non-Participating | 729582.03 | 4775768.26 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 550 | Residential | Non-Participating | 729133.41 | 4775868.04 | 32 | 36 | 35 | 31 | 28 | 34 | 25 | 21 | 16 | 0 |
| 552 | Residential | Non-Participating | 726869.96 | 4776294.50 | 36 | 37 | 39 | 40 | 35 | 37 | 29 | 24 | 23 | 0 |
| 553 | Residential | Non-Participating | 726795.81 | 4775870.01 | 38 | 39 | 43 | 41 | 35 | 38 | 31 | 26 | 27 | 2 |
| 554 | Residential | Non-Participating | 729165.74 | 4775920.62 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 557 | Residential | Non-Participating | 729532.60 | 4776634.43 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 560 | Residential | Non-Participating | 729480.90 | 4776581.53 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 565 | Residential | Non-Participating | 729416.96 | 4776511.63 | 34 | 36 | 35 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 569 | Residential | Non-Participating | 729418.72 | 4776407.16 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 570 | Residential | Non-Participating | 729329.21 | 4776384.95 | 35 | 37 | 36 | 33 | 29 | 35 | 27 | 25 | 26 | 0 |
| 572 | Residential | Non-Participating | 729296.32 | 4776304.42 | 34 | 36 | 36 | 32 | 29 | 34 | 26 | 23 | 24 | 0 |
| 574 | Residential | Non-Participating | 729198.60 | 4775966.03 | 32 | 35 | 35 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 583 | Residential | Non-Participating | 729065.00 | 4775607.16 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 27 | 28 | 0 |
| 586 | Residential | Non-Participating | 729054.70 | 4775670.07 | 36 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 26 | 0 |
| 588 | Residential | Non-Participating | 729105.72 | 4775701.33 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 589 | Residential | Non-Participating | 729277.00 | 4775709.66 | 35 | 37 | 37 | 33 | 29 | 36 | 28 | 24 | 23 | 0 |
| 591 | Residential | Non-Participating | 729051.03 | 4775832.73 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 21 | 18 | 0 |
| 595 | Residential | Non-Participating | 729244.54 | 4775762.90 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 596 | Residential | Non-Participating | 729137.86 | 4775072.56 | 36 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 597 | Residential | Non-Participating | 729246.56 | 4775114.00 | 38 | 39 | 39 | 36 | 32 | 38 | 31 | 28 | 30 | 5 |
| 603 | Residential | Non-Participating | 732329.11 | 4776044.45 | 21 | 25 | 25 | 22 | 19 | 23 | 12 | 3 | 0 | 0 |
| 604 | Residential | Non-Participating | 728989.14 | 4773571.77 | 21 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 605 | Residential | Non-Participating | 728803.87 | 4773860.70 | 26 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 606 | Residential | Non-Participating | 728832.65 | 4773864.22 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 608 | Residential | Non-Participating | 728858.52 | 4773869.05 | 26 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 609 | Residential | Non-Participating | 729589.05 | 4773896.81 | 25 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 612 | Residential | Non-Participating | 728909.84 | 4773878.32 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 8 | 0 | 0 |
| 613 | Residential | Non-Participating | 728975.13 | 4773880.74 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 615 | Residential | Non-Participating | 729077.58 | 4773891.93 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 616 | Residential | Non-Participating | 728943.97 | 4773891.22 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 618 | Residential | Non-Participating | 729625.51 | 4773918.33 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 5 | 0 | 0 |
| 619 | Residential | Non-Participating | 729086.47 | 4773908.47 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 621 | Residential | Non-Participating | 729037.87 | 4773918.07 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 622 | Residential | Non-Participating | 729086.06 | 4773932.48 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 10 | 0 | 0 |
| 623 | Residential | Non-Participating | 729040.61 | 4773944.37 | 26 | 32 | 32 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 624 | Residential | Non-Participating | 729091.42 | 4773955.31 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 625 | Residential | Non-Participating | 729047.55 | 4773967.04 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 10 | 0 | 0 |
| 626 | Residential | Non-Participating | 729092.21 | 4773975.11 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 629 | Residential | Non-Participating | 729097.83 | 4773998.72 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 630 | Residential | Non-Participating | 729047.33 | 4773996.87 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 631 | Residential | Non-Participating | 729048.32 | 4774060.84 | 27 | 32 | 32 | 27 | 24 | 29 | 19 | 12 | 0 | 0 |
| 634 | Residential | Non-Participating | 729142.92 | 4773643.19 | 24 | 29 | 29 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 635 | Residential | Non-Participating | 728899.71 | 4773642.75 | 22 | 25 | 25 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 637 | Residential | Non-Participating | 729276.07 | 4773657.78 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 638 | Residential | Non-Participating | 729260.10 | 4773654.44 | 24 | 29 | 29 | 25 | 21 | 26 | 16 | 6 | 0 | 0 |
| 639 | Residential | Non-Participating | 728924.81 | 4773640.56 | 22 | 25 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 640 | Residential | Non-Participating | 728867.69 | 4773640.30 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 641 | Residential | Non-Participating | 728845.67 | 4773641.62 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 642 | Residential | Non-Participating | 729315.21 | 4773660.73 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 643 | Residential | Non-Participating | 729294.79 | 4773659.93 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 646 | Residential | Non-Participating | 729169.15 | 4773655.06 | 24 | 29 | 29 | 25 | 21 | 25 | 15 | 6 | 0 | 0 |
| 647 | Residential | Non-Participating | 729181.55 | 4773653.73 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 6 | 0 | 0 |
| 648 | Residential | Non-Participating | 729208.10 | 4773657.35 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 6 | 0 | 0 |
| 649 | Residential | Non-Participating | 728951.84 | 4773650.59 | 22 | 25 | 25 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 651 | Residential | Non-Participating | 728793.10 | 4773649.35 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 652 | Residential | Non-Participating | 729381.25 | 4773674.99 | 24 | 29 | 29 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 653 | Residential | Non-Participating | 729450.77 | 4773697.75 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 655 | Residential | Non-Participating | 728825.80 | 4773684.02 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 656 | Residential | Non-Participating | 728899.46 | 4773689.13 | 22 | 25 | 25 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 657 | Residential | Non-Participating | 728874.48 | 4773687.75 | 22 | 25 | 25 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 659 | Residential | Non-Participating | 729259.92 | 4773705.81 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 661 | Residential | Non-Participating | 728782.08 | 4773690.84 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 662 | Residential | Non-Participating | 729218.06 | 4773705.71 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 663 | Residential | Non-Participating | 729321.59 | 4773709.95 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 664 | Residential | Non-Participating | 728916.86 | 4773691.08 | 22 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 665 | Residential | Non-Participating | 729349.57 | 4773711.33 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 666 | Residential | Non-Participating | 729295.82 | 4773707.43 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 667 | Residential | Non-Participating | 728939.24 | 4773695.30 | 22 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 668 | Residential | Non-Participating | 729160.55 | 4773704.67 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 669 | Residential | Non-Participating | 728853.62 | 4773689.97 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 670 | Residential | Non-Participating | 729190.90 | 4773703.60 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 671 | Residential | Non-Participating | 729365.77 | 4773714.16 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 672 | Residential | Non-Participating | 729237.34 | 4773710.50 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 676 | Residential | Non-Participating | 729105.68 | 4773709.52 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 683 | Residential | Non-Participating | 729394.54 | 4773732.63 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 688 | Residential | Non-Participating | 729484.10 | 4773734.67 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 692 | Residential | Non-Participating | 729053.94 | 4773740.52 | 24 | 29 | 29 | 25 | 22 | 25 | 15 | 3 | 0 | 0 |
| 694 | Residential | Non-Participating | 729055.48 | 4773751.02 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 695 | Residential | Non-Participating | 729511.74 | 4773754.86 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 696 | Residential | Non-Participating | 729432.15 | 4773764.03 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 699 | Residential | Non-Participating | 729450.82 | 4773777.19 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 701 | Residential | Non-Participating | 729472.00 | 4773792.75 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 702 | Residential | Non-Participating | 729071.42 | 4773779.91 | 25 | 31 | 31 | 26 | 22 | 27 | 17 | 8 | 0 | 0 |
| 705 | Residential | Non-Participating | 729580.75 | 4773800.25 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 707 | Residential | Non-Participating | 729499.39 | 4773808.08 | 23 | 28 | 28 | 24 | 22 | 25 | 14 | 5 | 0 | 0 |
| 710 | Residential | Non-Participating | 729625.49 | 4773823.63 | 22 | 25 | 25 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 711 | Residential | Non-Participating | 728774.18 | 4773799.75 | 25 | 30 | 30 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 712 | Residential | Non-Participating | 728796.08 | 4773802.63 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 713 | Residential | Non-Participating | 728922.42 | 4773806.03 | 25 | 30 | 30 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 714 | Residential | Non-Participating | 728832.33 | 4773807.11 | 25 | 30 | 30 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 716 | Residential | Non-Participating | 729065.57 | 4773815.10 | 26 | 31 | 31 | 26 | 23 | 27 | 18 | 8 | 0 | 0 |
| 717 | Residential | Non-Participating | 728860.19 | 4773810.77 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 718 | Residential | Non-Participating | 729019.22 | 4773815.07 | 26 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 720 | Residential | Non-Participating | 729534.81 | 4773842.53 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 721 | Residential | Non-Participating | 729073.05 | 4773845.92 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 722 | Residential | Non-Participating | 729561.15 | 4773864.29 | 25 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 724 | Residential | Non-Participating | 729074.07 | 4773862.04 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 725 | Residential | Non-Participating | 729041.07 | 4773472.97 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 726 | Residential | Non-Participating | 728957.79 | 4773320.44 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 728 | Residential | Non-Participating | 729009.02 | 4773329.55 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 729 | Residential | Non-Participating | 729019.73 | 4773353.67 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 732 | Residential | Non-Participating | 728964.12 | 4773374.51 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 733 | Residential | Non-Participating | 728851.33 | 4773352.34 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 734 | Residential | Non-Participating | 729020.09 | 4773381.49 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 736 | Residential | Non-Participating | 728960.68 | 4773389.64 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 737 | Residential | Non-Participating | 729017.28 | 4773400.98 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 738 | Residential | Non-Participating | 728965.79 | 4773406.71 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 739 | Residential | Non-Participating | 728969.30 | 4773422.14 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 740 | Residential | Non-Participating | 729021.77 | 4773437.08 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 745 | Residential | Non-Participating | 728972.77 | 4773448.23 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 747 | Residential | Non-Participating | 729022.67 | 4773453.88 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 751 | Residential | Non-Participating | 728899.62 | 4773472.19 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 752 | Residential | Non-Participating | 728870.34 | 4773471.45 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 753 | Residential | Non-Participating | 728843.53 | 4773473.25 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 754 | Residential | Non-Participating | 728974.60 | 4773478.81 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 755 | Residential | Non-Participating | 728922.95 | 4773477.21 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 756 | Residential | Non-Participating | 729030.53 | 4773490.01 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 758 | Residential | Non-Participating | 729030.73 | 4773514.45 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 759 | Residential | Non-Participating | 728914.65 | 4773516.48 | 21 | 26 | 26 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 762 | Residential | Non-Participating | 728979.88 | 4773527.40 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 765 | Residential | Non-Participating | 729039.88 | 4773541.14 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 766 | Residential | Non-Participating | 728987.62 | 4773549.13 | 21 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 768 | Residential | Non-Participating | 728921.46 | 4773546.76 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 769 | Residential | Non-Participating | 729039.12 | 4773565.17 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 771 | Residential | Non-Participating | 728778.59 | 4773855.78 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 772 | Residential | Non-Participating | 729039.12 | 4773583.37 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 780 | Residential | Non-Participating | 729242.79 | 4773656.01 | 24 | 29 | 29 | 25 | 21 | 26 | 15 | 6 | 0 | 0 |
| 781 | Residential | Non-Participating | 729455.01 | 4777793.37 | 23 | 28 | 28 | 24 | 21 | 25 | 14 | 4 | 0 | 0 |
| 782 | Residential | Non-Participating | 729358.86 | 4777674.71 | 25 | 31 | 31 | 26 | 22 | 27 | 18 | 10 | 0 | 0 |
| 786 | Residential | Non-Participating | 729347.61 | 4777805.09 | 20 | 23 | 23 | 24 | 20 | 22 | 10 | 0 | 0 | 0 |
| 787 | Residential | Non-Participating | 732705.58 | 4776616.09 | 16 | 19 | 19 | 19 | 16 | 17 | 4 | 0 | 0 | 0 |
| 791 | Residential | Non-Participating | 724404.54 | 4774343.97 | 35 | 38 | 38 | 33 | 30 | 36 | 27 | 24 | 21 | 0 |
| 792 | Residential | Non-Participating | 726264.37 | 4777056.36 | 32 | 36 | 40 | 35 | 30 | 32 | 26 | 17 | 0 | 0 |
| 793 | Residential | Non-Participating | 726819.44 | 4776889.60 | 34 | 37 | 42 | 37 | 32 | 35 | 28 | 22 | 18 | 0 |
| 795 | Residential | Non-Participating | 726791.37 | 4777222.00 | 30 | 34 | 39 | 34 | 29 | 31 | 24 | 14 | 2 | 0 |
| 796 | Residential | Non-Participating | 726523.80 | 4777148.13 | 31 | 35 | 40 | 35 | 30 | 32 | 26 | 17 | 1 | 0 |
| 800 | Residential | Non-Participating | 726341.01 | 4777087.79 | 31 | 36 | 40 | 35 | 30 | 32 | 25 | 16 | 0 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 801 | Residential | Non-Participating | 727758.11 | 4777459.63 | 28 | 32 | 32 | 29 | 25 | 29 | 20 | 16 | 10 | 0 |
| 803 | Residential | Non-Participating | 727914.34 | 4777440.42 | 29 | 32 | 32 | 29 | 25 | 30 | 22 | 18 | 16 | 0 |
| 804 | Residential | Non-Participating | 728010.95 | 4777435.68 | 29 | 31 | 31 | 29 | 26 | 30 | 22 | 19 | 18 | 0 |
| 806 | Residential | Non-Participating | 728326.02 | 4777429.36 | 27 | 27 | 27 | 28 | 25 | 28 | 18 | 14 | 13 | 0 |
| 807 | Residential | Non-Participating | 728401.19 | 4777423.79 | 29 | 30 | 30 | 29 | 26 | 30 | 21 | 18 | 16 | 0 |
| 809 | Residential | Non-Participating | 728423.69 | 4777411.44 | 29 | 31 | 32 | 29 | 26 | 30 | 21 | 18 | 16 | 0 |
| 811 | Residential | Non-Participating | 728104.85 | 4777386.29 | 29 | 29 | 29 | 29 | 26 | 30 | 20 | 16 | 17 | 0 |
| 812 | Residential | Non-Participating | 728407.33 | 4777381.45 | 30 | 32 | 33 | 30 | 26 | 31 | 22 | 19 | 18 | 0 |
| 813 | Residential | Non-Participating | 728412.48 | 4777332.87 | 31 | 33 | 34 | 30 | 27 | 31 | 23 | 20 | 19 | 0 |
| 815 | Residential | Non-Participating | 728267.18 | 4777256.79 | 37 | 37 | 37 | 35 | 30 | 36 | 29 | 27 | 31 | 8 |
| 816 | Residential | Non-Participating | 728415.93 | 4777190.55 | 36 | 37 | 38 | 34 | 29 | 36 | 28 | 26 | 27 | 0 |
| 818 | Residential | Non-Participating | 728360.22 | 4776876.53 | 35 | 36 | 36 | 33 | 29 | 35 | 27 | 24 | 25 | 0 |
| 820 | Residential | Non-Participating | 728376.17 | 4776814.25 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 824 | Residential | Non-Participating | 728342.73 | 4777577.48 | 25 | 25 | 25 | 26 | 24 | 26 | 15 | 10 | 5 | 0 |
| 825 | Residential | Non-Participating | 727894.73 | 4777525.91 | 28 | 32 | 32 | 29 | 25 | 29 | 21 | 17 | 12 | 0 |
| 828 | Residential | Non-Participating | 728192.45 | 4777492.34 | 27 | 28 | 28 | 28 | 25 | 28 | 18 | 13 | 11 | 0 |
| 829 | Residential | Non-Participating | 728257.16 | 4777490.59 | 26 | 27 | 28 | 27 | 25 | 28 | 17 | 13 | 11 | 0 |
| 832 | Residential | Non-Participating | 728575.25 | 4775727.93 | 33 | 36 | 36 | 31 | 28 | 34 | 25 | 21 | 19 | 0 |
| 833 | Residential | Non-Participating | 728211.67 | 4775698.67 | 33 | 37 | 38 | 32 | 29 | 34 | 26 | 21 | 16 | 0 |
| 834 | Residential | Non-Participating | 727838.78 | 4775509.90 | 34 | 37 | 37 | 33 | 29 | 35 | 27 | 23 | 18 | 0 |
| 835 | Residential | Non-Participating | 728639.12 | 4774987.30 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 21 | 18 | 0 |
| 836 | Residential | Non-Participating | 728368.23 | 4775786.01 | 32 | 36 | 37 | 32 | 28 | 33 | 25 | 20 | 14 | 0 |
| 839 | Residential | Non-Participating | 727864.06 | 4775670.46 | 30 | 32 | 33 | 31 | 27 | 31 | 22 | 17 | 13 | 0 |
| 840 | Residential | Non-Participating | 728127.66 | 4775688.34 | 32 | 36 | 38 | 32 | 29 | 33 | 25 | 20 | 16 | 0 |
| 842 | Residential | Non-Participating | 726097.96 | 4775544.41 | 36 | 38 | 41 | 37 | 33 | 36 | 29 | 24 | 21 | 0 |
| 843 | Residential | Non-Participating | 726186.70 | 4775551.91 | 36 | 40 | 42 | 38 | 33 | 37 | 30 | 24 | 20 | 0 |
| 844 | Residential | Non-Participating | 726843.52 | 4775544.44 | 35 | 38 | 42 | 38 | 33 | 36 | 29 | 23 | 20 | 0 |
| 845 | Residential | Non-Participating | 726166.32 | 4775500.75 | 35 | 38 | 39 | 35 | 32 | 36 | 28 | 24 | 21 | 0 |
| 847 | Residential | Non-Participating | 726103.38 | 4775468.76 | 36 | 39 | 42 | 37 | 33 | 37 | 29 | 24 | 21 | 0 |
| 849 | Residential | Non-Participating | 726529.56 | 4775276.07 | 38 | 40 | 42 | 37 | 33 | 38 | 31 | 27 | 27 | 0 |
| 851 | Residential | Non-Participating | 726814.49 | 4775602.44 | 36 | 38 | 42 | 38 | 33 | 36 | 30 | 24 | 22 | 0 |
| 852 | Residential | Non-Participating | 726270.41 | 4775560.52 | 36 | 39 | 42 | 38 | 34 | 37 | 30 | 24 | 20 | 0 |
| 858 | Residential | Non-Participating | 726986.39 | 4773765.92 | 38 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 30 | 7 |
| 859 | Residential | Non-Participating | 727055.40 | 4773757.04 | 37 | 38 | 38 | 35 | 31 | 37 | 29 | 27 | 29 | 6 |
| 862 | Residential | Non-Participating | 727834.62 | 4773223.80 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 9 | 0 | 0 |
| 864 | Residential | Non-Participating | 727766.80 | 4773162.33 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 10 | 0 | 0 |
| 868 | Residential | Non-Participating | 731078.39 | 4777513.27 | 21 | 24 | 24 | 22 | 19 | 23 | 12 | 2 | 0 | 0 |
| 870 | Residential | Non-Participating | 731171.34 | 4777483.67 | 20 | 24 | 23 | 22 | 19 | 22 | 10 | 0 | 0 | 0 |
| 871 | Residential | Non-Participating | 730509.26 | 4777463.86 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 872 | Residential | Non-Participating | 730481.84 | 4777399.25 | 27 | 32 | 33 | 26 | 23 | 29 | 20 | 13 | 0 | 0 |
| 874 | Residential | Non-Participating | 731023.49 | 4777311.09 | 22 | 25 | 24 | 23 | 20 | 23 | 12 | 4 | 0 | 0 |
| 877 | Residential | Non-Participating | 730447.25 | 4777603.88 | 21 | 26 | 27 | 24 | 21 | 23 | 12 | 2 | 0 | 0 |
| 879 | Residential | Non-Participating | 727826.21 | 4773150.33 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 9 | 0 | 0 |
| 883 | Residential | Non-Participating | 727651.78 | 4772425.03 | 21 | 26 | 26 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 884 | Residential | Non-Participating | 732553.46 | 4777033.18 | 19 | 25 | 25 | 20 | 17 | 21 | 10 | 0 | 0 | 0 |
| 886 | Residential | Non-Participating | 732377.37 | 4777492.44 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 891 | Residential | Non-Participating | 732651.96 | 4777412.79 | 16 | 23 | 22 | 19 | 15 | 18 | 6 | 0 | 0 | 0 |
| 894 | Residential | Non-Participating | 724048.81 | 4776152.22 | 33 | 35 | 35 | 32 | 28 | 34 | 26 | 22 | 20 | 0 |
| 895 | Residential | Non-Participating | 723752.10 | 4776273.13 | 35 | 37 | 37 | 34 | 30 | 36 | 28 | 25 | 25 | 0 |
| 897 | Residential | Non-Participating | 723980.32 | 4776307.97 | 36 | 37 | 38 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 900 | Residential | Non-Participating | 723984.23 | 4775852.95 | 31 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 11 | 0 |
| 903 | Residential | Non-Participating | 723921.69 | 4775711.12 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 904 | Residential | Non-Participating | 730095.90 | 4773922.65 | 22 | 24 | 24 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 905 | Residential | Non-Participating | 729888.62 | 4773911.94 | 21 | 23 | 23 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 906 | Residential | Non-Participating | 729995.07 | 4773916.38 | 22 | 23 | 23 | 24 | 21 | 23 | 11 | 2 | 0 | 0 |
| 908 | Residential | Non-Participating | 729911.65 | 4773839.21 | 21 | 23 | 23 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 909 | Residential | Non-Participating | 729712.95 | 4773832.38 | 22 | 23 | 23 | 24 | 21 | 23 | 12 | 3 | 0 | 0 |
| 920 | Residential | Non-Participating | 723997.57 | 4774755.07 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 921 | Residential | Non-Participating | 724092.78 | 4774797.29 | 37 | 39 | 39 | 35 | 31 | 37 | 30 | 27 | 28 | 0 |
| 923 | Residential | Non-Participating | 724027.26 | 4774679.50 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 925 | Residential | Non-Participating | 724018.80 | 4774531.09 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 24 | 0 |
| 928 | Residential | Non-Participating | 724119.23 | 4774141.79 | 33 | 36 | 36 | 31 | 28 | 34 | 25 | 21 | 18 | 0 |
| 930 | Residential | Non-Participating | 724117.78 | 4774089.47 | 32 | 36 | 36 | 30 | 27 | 33 | 25 | 20 | 16 | 0 |
| 931 | Residential | Non-Participating | 724115.08 | 4774024.30 | 31 | 36 | 36 | 30 | 27 | 33 | 24 | 19 | 14 | 0 |
| 933 | Residential | Non-Participating | 724026.34 | 4774741.38 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 23 | 0 |
| 935 | Residential | Non-Participating | 724019.88 | 4774697.99 | 34 | 37 | 37 | 33 | 30 | 35 | 27 | 23 | 21 | 0 |
| 937 | Residential | Non-Participating | 727182.20 | 4772189.68 | 20 | 24 | 24 | 23 | 20 | 22 | 11 | 2 | 0 | 0 |
| 943 | Residential | Non-Participating | 729667.73 | 4777744.02 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 4 | 0 | 0 |
| 944 | Residential | Non-Participating | 729806.46 | 4777731.62 | 22 | 25 | 25 | 24 | 20 | 23 | 12 | 3 | 0 | 0 |
| 946 | Residential | Non-Participating | 729594.72 | 4777803.68 | 22 | 28 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 947 | Residential | Non-Participating | 729885.26 | 4777836.49 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 2 | 0 | 0 |
| 952 | Residential | Non-Participating | 727747.66 | 4775660.04 | 32 | 34 | 34 | 32 | 28 | 33 | 24 | 20 | 18 | 0 |
| 955 | Residential | Non-Participating | 726969.30 | 4775538.77 | 36 | 39 | 42 | 37 | 33 | 37 | 29 | 24 | 22 | 0 |
| 957 | Residential | Non-Participating | 727646.72 | 4775424.59 | 36 | 38 | 38 | 34 | 31 | 36 | 28 | 25 | 24 | 0 |
| 961 | Residential | Non-Participating | 724348.24 | 4773639.01 | 28 | 33 | 34 | 28 | 25 | 29 | 20 | 11 | 0 | 0 |
| 967 | Residential | Non-Participating | 724920.33 | 4773638.00 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 968 | Residential | Non-Participating | 725009.91 | 4773598.09 | 27 | 31 | 31 | 27 | 24 | 29 | 19 | 10 | 0 | 0 |
| 970 | Residential | Non-Participating | 724584.50 | 4773579.17 | 27 | 33 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 971 | Residential | Non-Participating | 724528.67 | 4773576.47 | 27 | 32 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 972 | Residential | Non-Participating | 724634.12 | 4773578.39 | 27 | 33 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 973 | Residential | Non-Participating | 724842.58 | 4773565.86 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 975 | Residential | Non-Participating | 724481.40 | 4773563.69 | 27 | 32 | 33 | 27 | 24 | 29 | 19 | 10 | 0 | 0 |
| 977 | Residential | Non-Participating | 725056.87 | 4773660.84 | 27 | 32 | 32 | 27 | 25 | 29 | 19 | 11 | 0 | 0 |
| 978 | Residential | Non-Participating | 724539.98 | 4773639.39 | 28 | 33 | 33 | 28 | 25 | 30 | 20 | 12 | 0 | 0 |
| 979 | Residential | Non-Participating | 725089.55 | 4773656.21 | 27 | 32 | 32 | 27 | 25 | 29 | 19 | 11 | 0 | 0 |
| 980 | Residential | Non-Participating | 724380.17 | 4773634.41 | 27 | 33 | 34 | 28 | 25 | 29 | 19 | 11 | 0 | 0 |
| 982 | Residential | Non-Participating | 724649.21 | 4773632.27 | 27 | 32 | 32 | 27 | 24 | 29 | 20 | 12 | 0 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 984 | Residential | Non-Participating | 720508.02 | 4775126.51 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 986 | Residential | Non-Participating | 720358.20 | 4775145.63 | 23 | 30 | 30 | 23 | 20 | 24 | 14 | 3 | 0 | 0 |
| 989 | Residential | Non-Participating | 720267.87 | 4774379.06 | 18 | 25 | 25 | 21 | 17 | 20 | 8 | 0 | 0 | 0 |
| 992 | Residential | Non-Participating | 728658.15 | 4777494.01 | 27 | 29 | 31 | 28 | 25 | 28 | 18 | 14 | 9 | 0 |
| 994 | Residential | Non-Participating | 728752.89 | 4777569.26 | 24 | 27 | 29 | 27 | 24 | 26 | 15 | 9 | 2 | 0 |
| 996 | Residential | Non-Participating | 728966.88 | 4777521.23 | 29 | 34 | 35 | 29 | 25 | 30 | 22 | 17 | 11 | 0 |
| 998 | Residential | Non-Participating | 720318.81 | 4775101.03 | 22 | 30 | 30 | 23 | 19 | 24 | 14 | 3 | 0 | 0 |
| 999 | Residential | Non-Participating | 723238.68 | 4777217.14 | 27 | 32 | 33 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 1001 | Residential | Non-Participating | 724138.29 | 4776719.32 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1002 | Residential | Non-Participating | 724112.41 | 4776676.54 | 36 | 37 | 38 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 1004 | Residential | Non-Participating | 731949.68 | 4775092.04 | 26 | 31 | 30 | 25 | 22 | 28 | 19 | 13 | 4 | 0 |
| 1005 | Residential | Non-Participating | 731414.47 | 4775435.67 | 32 | 35 | 34 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 1006 | Residential | Non-Participating | 732015.89 | 4775134.43 | 26 | 31 | 30 | 25 | 22 | 27 | 18 | 12 | 1 | 0 |
| 1007 | Residential | Non-Participating | 732077.75 | 4775158.48 | 22 | 25 | 25 | 23 | 20 | 24 | 13 | 6 | 0 | 0 |
| 1008 | Residential | Non-Participating | 731768.52 | 4775157.34 | 29 | 32 | 32 | 27 | 24 | 30 | 21 | 17 | 12 | 0 |
| 1009 | Residential | Non-Participating | 732214.48 | 4775185.72 | 20 | 21 | 21 | 22 | 19 | 22 | 10 | 1 | 0 | 0 |
| 1010 | Residential | Non-Participating | 732129.72 | 4775182.37 | 21 | 21 | 21 | 22 | 20 | 22 | 11 | 3 | 0 | 0 |
| 1012 | Residential | Non-Participating | 732058.28 | 4775253.21 | 24 | 28 | 28 | 24 | 21 | 26 | 16 | 10 | 0 | 0 |
| 1013 | Residential | Non-Participating | 732217.52 | 4775318.15 | 21 | 25 | 25 | 22 | 20 | 23 | 12 | 4 | 0 | 0 |
| 1015 | Residential | Non-Participating | 731409.03 | 4775371.42 | 33 | 35 | 35 | 31 | 27 | 34 | 26 | 22 | 21 | 0 |
| 1016 | Residential | Non-Participating | 731409.24 | 4775519.08 | 31 | 34 | 34 | 30 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1017 | Residential | Non-Participating | 731435.10 | 4775555.01 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 15 | 0 |
| 1021 | Residential | Non-Participating | 731716.15 | 4775919.65 | 29 | 32 | 32 | 28 | 25 | 30 | 22 | 17 | 15 | 0 |
| 1022 | Residential | Non-Participating | 731786.69 | 4775886.09 | 26 | 28 | 28 | 25 | 23 | 27 | 17 | 11 | 3 | 0 |
| 1024 | Residential | Non-Participating | 731570.63 | 4775882.44 | 33 | 35 | 35 | 31 | 27 | 33 | 25 | 22 | 23 | 0 |
| 1025 | Residential | Non-Participating | 732031.68 | 4775893.80 | 23 | 26 | 26 | 23 | 21 | 25 | 15 | 7 | 0 | 0 |
| 1026 | Residential | Non-Participating | 731850.81 | 4775877.14 | 25 | 27 | 27 | 24 | 22 | 26 | 16 | 10 | 0 | 0 |
| 1027 | Residential | Non-Participating | 731974.22 | 4775878.91 | 24 | 27 | 26 | 24 | 21 | 25 | 15 | 8 | 0 | 0 |
| 1028 | Residential | Non-Participating | 731628.78 | 4775862.55 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 21 | 19 | 0 |
| 1029 | Residential | Non-Participating | 731402.56 | 4775687.63 | 32 | 34 | 34 | 30 | 27 | 33 | 25 | 21 | 20 | 0 |
| 1031 | Residential | Non-Participating | 731478.97 | 4775678.66 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 18 | 0 |
| 1032 | Residential | Non-Participating | 731470.63 | 4775613.43 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1033 | Residential | Non-Participating | 731422.69 | 4775589.11 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1034 | Residential | Non-Participating | 724039.87 | 4776802.82 | 34 | 36 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1035 | Residential | Non-Participating | 724101.91 | 4776826.46 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 22 | 21 | 0 |
| 1036 | Residential | Non-Participating | 724028.14 | 4776823.66 | 34 | 36 | 37 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 1037 | Residential | Non-Participating | 724083.81 | 4776851.94 | 33 | 35 | 36 | 32 | 28 | 33 | 25 | 22 | 20 | 0 |
| 1038 | Residential | Non-Participating | 724066.58 | 4776893.30 | 32 | 35 | 36 | 31 | 27 | 33 | 25 | 21 | 19 | 0 |
| 1039 | Residential | Non-Participating | 723626.37 | 4776890.34 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 1041 | Residential | Non-Participating | 724103.33 | 4776926.16 | 31 | 35 | 36 | 31 | 27 | 32 | 24 | 20 | 17 | 0 |
| 1042 | Residential | Non-Participating | 724089.99 | 4776926.37 | 32 | 35 | 36 | 31 | 27 | 32 | 24 | 20 | 17 | 0 |
| 1043 | Residential | Non-Participating | 724107.74 | 4776965.68 | 31 | 34 | 35 | 30 | 27 | 32 | 24 | 19 | 15 | 0 |
| 1046 | Residential | Non-Participating | 724105.85 | 4776778.13 | 34 | 36 | 37 | 32 | 29 | 34 | 26 | 23 | 23 | 0 |
| 1047 | Residential | Non-Participating | 724113.10 | 4776751.93 | 34 | 36 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1050 | Residential | Non-Participating | 726587.25 | 4772092.90 | 23 | 27 | 26 | 23 | 20 | 24 | 14 | 9 | 0 | 0 |
| 1051 | Residential | Non-Participating | 726573.79 | 4772129.48 | 23 | 27 | 27 | 24 | 21 | 24 | 15 | 9 | 1 | 0 |
| 1052 | Residential | Non-Participating | 726798.67 | 4772157.07 | 23 | 27 | 27 | 24 | 21 | 24 | 14 | 8 | 0 | 0 |
| 1058 | Residential | Non-Participating | 724354.68 | 4775435.75 | 37 | 38 | 38 | 35 | 31 | 37 | 29 | 27 | 29 | 2 |
| 1060 | Residential | Non-Participating | 724243.16 | 4775441.34 | 36 | 38 | 37 | 34 | 30 | 36 | 28 | 25 | 25 | 0 |
| 1061 | Residential | Non-Participating | 724317.11 | 4775448.45 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 1063 | Residential | Non-Participating | 724845.42 | 4775474.56 | 34 | 35 | 35 | 33 | 30 | 35 | 26 | 22 | 20 | 0 |
| 1071 | Residential | Non-Participating | 724590.80 | 4775547.88 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 20 | 0 |
| 1073 | Residential | Non-Participating | 724236.00 | 4775389.93 | 36 | 38 | 38 | 34 | 31 | 37 | 29 | 26 | 27 | 0 |
| 1074 | Residential | Non-Participating | 724302.42 | 4775395.71 | 38 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 30 | 5 |
| 1076 | Residential | Non-Participating | 724964.74 | 4775391.51 | 33 | 34 | 34 | 32 | 30 | 34 | 25 | 21 | 18 | 0 |
| 1078 | Residential | Non-Participating | 724799.23 | 4775151.53 | 39 | 40 | 40 | 36 | 33 | 39 | 31 | 28 | 30 | 3 |
| 1090 | Residential | Non-Participating | 728286.80 | 4777947.38 | 23 | 26 | 26 | 25 | 21 | 24 | 14 | 7 | 0 | 0 |
| 1094 | Residential | Non-Participating | 730546.38 | 4777725.26 | 19 | 21 | 22 | 22 | 19 | 21 | 9 | 0 | 0 | 0 |
| 1096 | Residential | Non-Participating | 730614.49 | 4778344.91 | 16 | 20 | 20 | 20 | 17 | 18 | 5 | 0 | 0 | 0 |
| 1097 | Residential | Non-Participating | 730691.19 | 4778401.67 | 16 | 20 | 20 | 20 | 16 | 18 | 4 | 0 | 0 | 0 |
| 1100 | Residential | Non-Participating | 730614.75 | 4778452.56 | 16 | 19 | 20 | 20 | 16 | 17 | 4 | 0 | 0 | 0 |
| 1104 | Residential | Non-Participating | 731558.04 | 4774875.78 | 31 | 32 | 32 | 29 | 26 | 32 | 24 | 21 | 20 | 0 |
| 1105 | Residential | Non-Participating | 731435.68 | 4774877.87 | 34 | 35 | 35 | 32 | 28 | 34 | 27 | 24 | 26 | 0 |
| 1106 | Residential | Non-Participating | 731485.26 | 4774905.10 | 34 | 34 | 34 | 31 | 28 | 34 | 26 | 24 | 25 | 0 |
| 1107 | Residential | Non-Participating | 731631.99 | 4774936.63 | 30 | 32 | 32 | 28 | 25 | 31 | 23 | 20 | 18 | 0 |
| 1108 | Residential | Non-Participating | 731563.43 | 4774956.90 | 32 | 33 | 33 | 30 | 27 | 32 | 25 | 22 | 22 | 0 |
| 1109 | Residential | Non-Participating | 731614.94 | 4774986.36 | 31 | 33 | 33 | 29 | 26 | 32 | 23 | 20 | 20 | 0 |
| 1110 | Residential | Non-Participating | 731672.81 | 4775008.82 | 30 | 32 | 32 | 28 | 25 | 31 | 22 | 19 | 17 | 0 |
| 1111 | Residential | Non-Participating | 731735.55 | 4775045.18 | 29 | 32 | 31 | 27 | 24 | 30 | 21 | 17 | 14 | 0 |
| 1112 | Residential | Non-Participating | 731870.28 | 4775055.71 | 27 | 31 | 30 | 26 | 23 | 28 | 19 | 14 | 7 | 0 |
| 1115 | Residential | Non-Participating | 723980.93 | 4775590.81 | 32 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1117 | Residential | Non-Participating | 723869.54 | 4775409.57 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 15 | 0 |
| 1118 | Residential | Non-Participating | 724018.76 | 4775410.66 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 17 | 0 |
| 1119 | Residential | Non-Participating | 723925.93 | 4775409.25 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 1120 | Residential | Non-Participating | 723723.24 | 4775401.57 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 1121 | Residential | Non-Participating | 723904.36 | 4775405.38 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 1123 | Residential | Non-Participating | 723978.12 | 4775407.15 | 33 | 37 | 36 | 32 | 29 | 34 | 26 | 21 | 15 | 0 |
| 1124 | Residential | Non-Participating | 724091.10 | 4775377.84 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 1125 | Residential | Non-Participating | 724062.58 | 4775375.51 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 23 | 20 | 0 |
| 1128 | Residential | Non-Participating | 723986.51 | 4775560.82 | 32 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1133 | Residential | Non-Participating | 724013.07 | 4774868.60 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 25 | 26 | 0 |
| 1134 | Residential | Non-Participating | 724019.70 | 4774833.10 | 36 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 25 | 0 |
| 1141 | Residential | Non-Participating | 724203.14 | 4775432.29 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 1142 | Residential | Non-Participating | 724128.40 | 4775425.80 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 23 | 21 | 0 |
| 1144 | Residential | Non-Participating | 724057.56 | 4775423.59 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 18 | 0 |
| 1146 | Residential | Non-Participating | 723628.31 | 4775362.25 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 1147 | Residential | Non-Participating | 723976.67 | 4775374.91 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |

**Table 7-4.1a: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1148 | Residential | Non-Participating | 723951.89 | 4775370.80 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 1149 | Residential | Non-Participating | 723882.86 | 4775366.57 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 1150 | Residential | Non-Participating | 723970.79 | 4775503.66 | 32 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1151 | Residential | Non-Participating | 723996.62 | 4775356.90 | 34 | 38 | 37 | 32 | 29 | 35 | 27 | 23 | 18 | 0 |
| 1156 | Residential | Non-Participating | 723988.28 | 4775310.70 | 34 | 38 | 37 | 33 | 29 | 35 | 27 | 23 | 19 | 0 |
| 1160 | Residential | Non-Participating | 723404.91 | 4775233.87 | 37 | 39 | 39 | 35 | 31 | 37 | 30 | 27 | 28 | 1 |
| 1161 | Residential | Non-Participating | 723727.22 | 4775204.79 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 1164 | Residential | Non-Participating | 722733.09 | 4773217.91 | 24 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 1166 | Residential | Non-Participating | 723345.91 | 4773213.76 | 25 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 1167 | Residential | Non-Participating | 722686.66 | 4773151.26 | 24 | 30 | 31 | 25 | 21 | 26 | 15 | 5 | 0 | 0 |
| 1169 | Residential | Non-Participating | 722619.71 | 4773148.87 | 24 | 30 | 31 | 25 | 21 | 26 | 15 | 5 | 0 | 0 |
| 1170 | Residential | Non-Participating | 722930.96 | 4773236.57 | 24 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 1176 | Residential | Non-Participating | 727473.19 | 4777362.36 | 27 | 33 | 36 | 31 | 26 | 28 | 20 | 9 | 0 | 0 |
| 1178 | Residential | Non-Participating | 727341.32 | 4777309.54 | 28 | 33 | 37 | 32 | 27 | 29 | 21 | 10 | 0 | 0 |
| 1181 | Residential | Non-Participating | 727424.83 | 4777261.94 | 30 | 35 | 38 | 32 | 28 | 31 | 23 | 15 | 8 | 0 |
| 1182 | Residential | Non-Participating | 727143.38 | 4777202.69 | 30 | 35 | 38 | 33 | 29 | 31 | 24 | 17 | 12 | 0 |
| 1184 | Residential | Non-Participating | 726878.49 | 4777103.97 | 31 | 35 | 39 | 35 | 30 | 32 | 25 | 17 | 8 | 0 |
| 1185 | Residential | Non-Participating | 727168.71 | 4777318.85 | 28 | 33 | 37 | 32 | 27 | 29 | 21 | 10 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **405** | **Residential** | **Non-Participating** | **726469.31** | **4774847.53** | **40** | **41** | **41** | **37** | **33** | **40** | **32** | **30** | **32** | **11** |
| **1100** | **Residential** | **Non-Participating** | **730614.75** | **4778452.56** | **16** | **19** | **20** | **20** | **16** | **17** | **4** | **0** | **0** | **0** |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 405 | Residential | Non-Participating | 726469.31 | 4774847.53 | 40 | 41 | 41 | 37 | 33 | 40 | 32 | 30 | 32 | 11 |
| 520 | Residential | Non-Participating | 725568.18 | 4776896.20 | 39 | 39 | 40 | 37 | 33 | 38 | 31 | 29 | 34 | 17 |
| 1078 | Residential | Non-Participating | 724799.23 | 4775151.53 | 39 | 40 | 40 | 36 | 33 | 39 | 31 | 28 | 30 | 3 |
| 119 | Residential | Non-Participating | 722368.27 | 4775189.34 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 31 | 8 |
| 490 | Residential | Non-Participating | 725481.55 | 4775646.09 | 39 | 40 | 41 | 37 | 33 | 39 | 31 | 28 | 31 | 9 |
| 124 | Residential | Non-Participating | 722281.08 | 4775095.14 | 38 | 40 | 39 | 36 | 32 | 38 | 31 | 28 | 29 | 0 |
| 597 | Residential | Non-Participating | 729246.56 | 4775114.00 | 38 | 39 | 39 | 36 | 32 | 38 | 31 | 28 | 30 | 5 |
| 112 | Residential | Non-Participating | 722372.96 | 4775085.15 | 38 | 39 | 39 | 36 | 32 | 38 | 30 | 28 | 29 | 2 |
| 426 | Residential | Non-Participating | 722620.69 | 4775203.20 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 30 | 7 |
| 115 | Residential | Non-Participating | 722357.20 | 4775122.97 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 29 | 1 |
| 429 | Residential | Non-Participating | 722583.77 | 4775206.59 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 29 | 4 |
| 553 | Residential | Non-Participating | 726795.81 | 4775870.01 | 38 | 39 | 43 | 41 | 35 | 38 | 31 | 26 | 27 | 2 |
| 849 | Residential | Non-Participating | 726529.56 | 4775276.07 | 38 | 40 | 42 | 37 | 33 | 38 | 31 | 27 | 27 | 0 |
| 381 | Residential | Non-Participating | 729289.10 | 4774862.65 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 27 | 29 | 3 |
| 1074 | Residential | Non-Participating | 724302.42 | 4775395.71 | 38 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 30 | 5 |
| 858 | Residential | Non-Participating | 726986.39 | 4773765.92 | 38 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 30 | 7 |
| 113 | Residential | Non-Participating | 722105.32 | 4775079.25 | 37 | 38 | 38 | 35 | 32 | 38 | 30 | 27 | 28 | 0 |
| 114 | Residential | Non-Participating | 722025.70 | 4775078.79 | 37 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 29 | 1 |
| 1160 | Residential | Non-Participating | 723404.91 | 4775233.87 | 37 | 39 | 39 | 35 | 31 | 37 | 30 | 27 | 28 | 1 |
| 815 | Residential | Non-Participating | 728267.18 | 4777256.79 | 37 | 37 | 37 | 35 | 30 | 36 | 29 | 27 | 31 | 8 |
| 921 | Residential | Non-Participating | 724092.78 | 4774797.29 | 37 | 39 | 39 | 35 | 31 | 37 | 30 | 27 | 28 | 0 |
| 859 | Residential | Non-Participating | 727055.40 | 4773757.04 | 37 | 38 | 38 | 35 | 31 | 37 | 29 | 27 | 29 | 6 |
| 1058 | Residential | Non-Participating | 724354.68 | 4775435.75 | 37 | 38 | 38 | 35 | 31 | 37 | 29 | 27 | 29 | 2 |
| 583 | Residential | Non-Participating | 729065.00 | 4775607.16 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 27 | 28 | 0 |
| 525 | Residential | Non-Participating | 725659.02 | 4776858.18 | 37 | 38 | 40 | 36 | 31 | 36 | 29 | 26 | 29 | 8 |
| 503 | Residential | Non-Participating | 726884.80 | 4773761.13 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 26 | 27 | 0 |
| 383 | Residential | Non-Participating | 729284.04 | 4774898.68 | 37 | 37 | 37 | 34 | 31 | 37 | 29 | 26 | 28 | 0 |
| 552 | Residential | Non-Participating | 726869.96 | 4776294.50 | 36 | 37 | 39 | 40 | 35 | 37 | 29 | 24 | 23 | 0 |
| 502 | Residential | Non-Participating | 726811.30 | 4773727.78 | 36 | 39 | 38 | 34 | 31 | 37 | 29 | 26 | 26 | 0 |
| 843 | Residential | Non-Participating | 726186.70 | 4775551.91 | 36 | 40 | 42 | 38 | 33 | 37 | 30 | 24 | 20 | 0 |
| 1073 | Residential | Non-Participating | 724236.00 | 4775389.93 | 36 | 38 | 38 | 34 | 31 | 37 | 29 | 26 | 27 | 0 |
| 852 | Residential | Non-Participating | 726270.41 | 4775560.52 | 36 | 39 | 42 | 38 | 34 | 37 | 30 | 24 | 20 | 0 |
| 847 | Residential | Non-Participating | 726103.38 | 4775468.76 | 36 | 39 | 42 | 37 | 33 | 37 | 29 | 24 | 21 | 0 |
| 1061 | Residential | Non-Participating | 724317.11 | 4775448.45 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 500 | Residential | Non-Participating | 726740.59 | 4773733.14 | 36 | 38 | 38 | 34 | 30 | 37 | 29 | 26 | 25 | 0 |
| 955 | Residential | Non-Participating | 726969.30 | 4775538.77 | 36 | 39 | 42 | 37 | 33 | 37 | 29 | 24 | 22 | 0 |
| 494 | Residential | Non-Participating | 726000.27 | 4775543.61 | 36 | 38 | 41 | 37 | 33 | 36 | 29 | 24 | 24 | 0 |
| 851 | Residential | Non-Participating | 726814.49 | 4775602.44 | 36 | 38 | 42 | 38 | 33 | 36 | 30 | 24 | 22 | 0 |
| 501 | Residential | Non-Participating | 726738.21 | 4773745.37 | 36 | 38 | 38 | 34 | 30 | 36 | 29 | 25 | 24 | 0 |
| 897 | Residential | Non-Participating | 723980.32 | 4776307.97 | 36 | 37 | 38 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 424 | Residential | Non-Participating | 722922.89 | 4775148.12 | 36 | 38 | 38 | 33 | 30 | 36 | 29 | 25 | 23 | 0 |
| 121 | Residential | Non-Participating | 721928.80 | 4775199.82 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 26 | 25 | 0 |
| 376 | Residential | Non-Participating | 729291.50 | 4774638.73 | 36 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 27 | 0 |
| 957 | Residential | Non-Participating | 727646.72 | 4775424.59 | 36 | 38 | 38 | 34 | 31 | 36 | 28 | 25 | 24 | 0 |
| 1133 | Residential | Non-Participating | 724013.07 | 4774868.60 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 25 | 26 | 0 |
| 842 | Residential | Non-Participating | 726097.96 | 4775544.41 | 36 | 38 | 41 | 37 | 33 | 36 | 29 | 24 | 21 | 0 |
| 816 | Residential | Non-Participating | 728415.93 | 4777190.55 | 36 | 37 | 38 | 34 | 29 | 36 | 28 | 26 | 27 | 0 |
| 419 | Residential | Non-Participating | 726514.90 | 4774178.67 | 36 | 38 | 38 | 34 | 30 | 36 | 28 | 25 | 23 | 0 |
| 1002 | Residential | Non-Participating | 724112.41 | 4776676.54 | 36 | 37 | 38 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 438 | Residential | Non-Participating | 729643.61 | 4776671.50 | 36 | 37 | 37 | 33 | 29 | 36 | 28 | 25 | 27 | 1 |
| 596 | Residential | Non-Participating | 729137.86 | 4775072.56 | 36 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 1060 | Residential | Non-Participating | 724243.16 | 4775441.34 | 36 | 38 | 37 | 34 | 30 | 36 | 28 | 25 | 25 | 0 |
| 1134 | Residential | Non-Participating | 724019.70 | 4774833.10 | 36 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 25 | 0 |
| 586 | Residential | Non-Participating | 729054.70 | 4775670.07 | 36 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 26 | 0 |
| 526 | Residential | Non-Participating | 725694.41 | 4776864.47 | 36 | 38 | 40 | 36 | 31 | 35 | 28 | 24 | 27 | 2 |
| 1141 | Residential | Non-Participating | 724203.14 | 4775432.29 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 895 | Residential | Non-Participating | 723752.10 | 4776273.13 | 35 | 37 | 37 | 34 | 30 | 36 | 28 | 25 | 25 | 0 |
| 1146 | Residential | Non-Participating | 723628.31 | 4775362.25 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 845 | Residential | Non-Participating | 726166.32 | 4775500.75 | 35 | 38 | 39 | 35 | 32 | 36 | 28 | 24 | 21 | 0 |
| 118 | Residential | Non-Participating | 721885.31 | 4775169.22 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 499 | Residential | Non-Participating | 726578.49 | 4773124.46 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 25 | 25 | 0 |
| 844 | Residential | Non-Participating | 726843.52 | 4775544.44 | 35 | 38 | 42 | 38 | 33 | 36 | 29 | 23 | 20 | 0 |
| 434 | Residential | Non-Participating | 722896.41 | 4775222.88 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 570 | Residential | Non-Participating | 729329.21 | 4776384.95 | 35 | 37 | 36 | 33 | 29 | 35 | 27 | 25 | 26 | 0 |
| 496 | Residential | Non-Participating | 725155.47 | 4775492.08 | 35 | 36 | 36 | 34 | 31 | 36 | 27 | 24 | 24 | 0 |
| 920 | Residential | Non-Participating | 723997.57 | 4774755.07 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 925 | Residential | Non-Participating | 724018.80 | 4774531.09 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 24 | 0 |
| 209 | Residential | Non-Participating | 726577.69 | 4773017.75 | 35 | 37 | 37 | 33 | 29 | 35 | 28 | 25 | 25 | 0 |
| 933 | Residential | Non-Participating | 724026.34 | 4774741.38 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 23 | 0 |
| 380 | Residential | Non-Participating | 729202.42 | 4774793.43 | 35 | 37 | 37 | 33 | 29 | 35 | 28 | 25 | 24 | 0 |
| 518 | Residential | Non-Participating | 731188.19 | 4775834.08 | 35 | 35 | 35 | 32 | 29 | 35 | 27 | 25 | 27 | 2 |
| 428 | Residential | Non-Participating | 722939.56 | 4775217.32 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 589 | Residential | Non-Participating | 729277.00 | 4775709.66 | 35 | 37 | 37 | 33 | 29 | 36 | 28 | 24 | 23 | 0 |
| 549 | Residential | Non-Participating | 729582.03 | 4775768.26 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 51 | Residential | Non-Participating | 729795.23 | 4775782.85 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 49 | Residential | Non-Participating | 729873.29 | 4775778.19 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 52 | Residential | Non-Participating | 729842.04 | 4775784.65 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 1124 | Residential | Non-Participating | 724091.10 | 4775377.84 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 818 | Residential | Non-Participating | 728360.22 | 4776876.53 | 35 | 36 | 36 | 33 | 29 | 35 | 27 | 24 | 25 | 0 |
| 1142 | Residential | Non-Participating | 724128.40 | 4775425.80 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 23 | 21 | 0 |
| 53 | Residential | Non-Participating | 729603.31 | 4775779.65 | 35 | 37 | 37 | 33 | 29 | 35 | 28 | 24 | 22 | 0 |
| 791 | Residential | Non-Participating | 724404.54 | 4774343.97 | 35 | 38 | 38 | 33 | 30 | 36 | 27 | 24 | 21 | 0 |
| 588 | Residential | Non-Participating | 729105.72 | 4775701.33 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 1125 | Residential | Non-Participating | 724062.58 | 4775375.51 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 23 | 20 | 0 |
| 50 | Residential | Non-Participating | 729939.14 | 4775783.38 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 22 | 0 |
| 1001 | Residential | Non-Participating | 724138.29 | 4776719.32 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 116 | Residential | Non-Participating | 721750.54 | 4775111.42 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 24 | 23 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1105 | Residential | Non-Participating | 731435.68 | 4774877.87 | 34 | 35 | 35 | 32 | 28 | 34 | 27 | 24 | 26 | 0 |
| 487 | Residential | Non-Participating | 731400.62 | 4774848.49 | 34 | 35 | 35 | 32 | 28 | 34 | 27 | 24 | 26 | 0 |
| 439 | Residential | Non-Participating | 729570.88 | 4776598.02 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 24 | 24 | 0 |
| 935 | Residential | Non-Participating | 724019.88 | 4774697.99 | 34 | 37 | 37 | 33 | 30 | 35 | 27 | 23 | 21 | 0 |
| 1156 | Residential | Non-Participating | 723988.28 | 4775310.70 | 34 | 38 | 37 | 33 | 29 | 35 | 27 | 23 | 19 | 0 |
| 485 | Residential | Non-Participating | 731355.45 | 4774819.89 | 34 | 34 | 34 | 32 | 28 | 34 | 26 | 24 | 26 | 0 |
| 527 | Residential | Non-Participating | 725745.37 | 4776873.27 | 34 | 37 | 40 | 35 | 31 | 35 | 27 | 23 | 23 | 0 |
| 793 | Residential | Non-Participating | 726819.44 | 4776889.60 | 34 | 37 | 42 | 37 | 32 | 35 | 28 | 22 | 18 | 0 |
| 58 | Residential | Non-Participating | 730016.13 | 4775783.53 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 55 | Residential | Non-Participating | 730365.70 | 4775802.84 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 24 | 22 | 0 |
| 517 | Residential | Non-Participating | 730784.71 | 4775773.60 | 34 | 34 | 34 | 32 | 30 | 35 | 26 | 23 | 24 | 0 |
| 1047 | Residential | Non-Participating | 724113.10 | 4776751.93 | 34 | 36 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1151 | Residential | Non-Participating | 723996.62 | 4775356.90 | 34 | 38 | 37 | 32 | 29 | 35 | 27 | 23 | 18 | 0 |
| 548 | Residential | Non-Participating | 729299.49 | 4775753.64 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 1120 | Residential | Non-Participating | 723723.24 | 4775401.57 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 1034 | Residential | Non-Participating | 724039.87 | 4776802.82 | 34 | 36 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 213 | Residential | Non-Participating | 726490.56 | 4772612.30 | 34 | 34 | 33 | 32 | 27 | 33 | 26 | 24 | 28 | 4 |
| 1147 | Residential | Non-Participating | 723976.67 | 4775374.91 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 546 | Residential | Non-Participating | 729179.94 | 4775742.74 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 54 | Residential | Non-Participating | 730075.76 | 4775797.65 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 834 | Residential | Non-Participating | 727838.78 | 4775509.90 | 34 | 37 | 37 | 33 | 29 | 35 | 27 | 23 | 18 | 0 |
| 595 | Residential | Non-Participating | 729244.54 | 4775762.90 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 127 | Residential | Non-Participating | 721394.91 | 4774690.71 | 34 | 36 | 36 | 32 | 28 | 34 | 27 | 24 | 24 | 0 |
| 1148 | Residential | Non-Participating | 723951.89 | 4775370.80 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 572 | Residential | Non-Participating | 729296.32 | 4776304.42 | 34 | 36 | 36 | 32 | 29 | 34 | 26 | 23 | 24 | 0 |
| 493 | Residential | Non-Participating | 725609.06 | 4775531.37 | 34 | 37 | 39 | 35 | 31 | 35 | 27 | 21 | 17 | 0 |
| 923 | Residential | Non-Participating | 724027.26 | 4774679.50 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 178 | Residential | Non-Participating | 729758.86 | 4776841.81 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 1036 | Residential | Non-Participating | 724028.14 | 4776823.66 | 34 | 36 | 37 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 1046 | Residential | Non-Participating | 724105.85 | 4776778.13 | 34 | 36 | 37 | 32 | 29 | 34 | 26 | 23 | 23 | 0 |
| 1144 | Residential | Non-Participating | 724057.56 | 4775423.59 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 18 | 0 |
| 1161 | Residential | Non-Participating | 723727.22 | 4775204.79 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 569 | Residential | Non-Participating | 729418.72 | 4776407.16 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 557 | Residential | Non-Participating | 729532.60 | 4776634.43 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 1071 | Residential | Non-Participating | 724590.80 | 4775547.88 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 20 | 0 |
| 565 | Residential | Non-Participating | 729416.96 | 4776511.63 | 34 | 36 | 35 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 1118 | Residential | Non-Participating | 724018.76 | 4775410.66 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 17 | 0 |
| 504 | Residential | Non-Participating | 726556.95 | 4773805.94 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 1106 | Residential | Non-Participating | 731485.26 | 4774905.10 | 34 | 34 | 34 | 31 | 28 | 34 | 26 | 24 | 25 | 0 |
| 1063 | Residential | Non-Participating | 724845.42 | 4775474.56 | 34 | 35 | 35 | 33 | 30 | 35 | 26 | 22 | 20 | 0 |
| 820 | Residential | Non-Participating | 728376.17 | 4776814.25 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 497 | Residential | Non-Participating | 726499.43 | 4773815.63 | 33 | 36 | 36 | 32 | 29 | 34 | 26 | 22 | 19 | 0 |
| 375 | Residential | Non-Participating | 729214.13 | 4774594.70 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 560 | Residential | Non-Participating | 729480.90 | 4776581.53 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 66 | Residential | Non-Participating | 730145.08 | 4775833.94 | 33 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 16 | 0 |
| 1039 | Residential | Non-Participating | 723626.37 | 4776890.34 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 8 | Residential | Non-Participating | 721417.80 | 4774766.28 | 33 | 35 | 35 | 31 | 28 | 34 | 26 | 23 | 22 | 0 |
| 1123 | Residential | Non-Participating | 723978.12 | 4775407.15 | 33 | 37 | 36 | 32 | 29 | 34 | 26 | 21 | 15 | 0 |
| 1 | Residential | Non-Participating | 721444.24 | 4774819.36 | 33 | 35 | 35 | 31 | 28 | 34 | 26 | 23 | 21 | 0 |
| 516 | Residential | Non-Participating | 731141.44 | 4775781.92 | 33 | 35 | 34 | 31 | 28 | 34 | 26 | 23 | 22 | 0 |
| 1035 | Residential | Non-Participating | 724101.91 | 4776826.46 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 22 | 21 | 0 |
| 894 | Residential | Non-Participating | 724048.81 | 4776152.22 | 33 | 35 | 35 | 32 | 28 | 34 | 26 | 22 | 20 | 0 |
| 1015 | Residential | Non-Participating | 731409.03 | 4775371.42 | 33 | 35 | 35 | 31 | 27 | 34 | 26 | 22 | 21 | 0 |
| 522 | Residential | Non-Participating | 725799.55 | 4776942.37 | 33 | 37 | 40 | 35 | 30 | 34 | 26 | 20 | 19 | 0 |
| 591 | Residential | Non-Participating | 729051.03 | 4775832.73 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 21 | 18 | 0 |
| 1024 | Residential | Non-Participating | 731570.63 | 4775882.44 | 33 | 35 | 35 | 31 | 27 | 33 | 25 | 22 | 23 | 0 |
| 1076 | Residential | Non-Participating | 724964.74 | 4775391.51 | 33 | 34 | 34 | 32 | 30 | 34 | 25 | 21 | 18 | 0 |
| 443 | Residential | Non-Participating | 728476.10 | 4774926.24 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 22 | 19 | 0 |
| 835 | Residential | Non-Participating | 728639.12 | 4774987.30 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 21 | 18 | 0 |
| 12 | Residential | Non-Participating | 721436.97 | 4774870.99 | 33 | 35 | 35 | 31 | 27 | 33 | 26 | 22 | 20 | 0 |
| 132 | Residential | Non-Participating | 721278.64 | 4774584.27 | 33 | 35 | 35 | 31 | 27 | 33 | 25 | 22 | 22 | 0 |
| 832 | Residential | Non-Participating | 728575.25 | 4775727.93 | 33 | 36 | 36 | 31 | 28 | 34 | 25 | 21 | 19 | 0 |
| 1037 | Residential | Non-Participating | 724083.81 | 4776851.94 | 33 | 35 | 36 | 32 | 28 | 33 | 25 | 22 | 20 | 0 |
| 833 | Residential | Non-Participating | 728211.67 | 4775698.67 | 33 | 37 | 38 | 32 | 29 | 34 | 26 | 21 | 16 | 0 |
| 117 | Residential | Non-Participating | 721667.54 | 4775158.55 | 33 | 35 | 35 | 31 | 28 | 34 | 25 | 22 | 19 | 0 |
| 474 | Residential | Non-Participating | 730798.58 | 4774651.01 | 33 | 36 | 35 | 31 | 27 | 34 | 26 | 22 | 18 | 0 |
| 212 | Residential | Non-Participating | 726635.52 | 4772650.59 | 33 | 33 | 33 | 30 | 26 | 32 | 25 | 23 | 25 | 0 |
| 928 | Residential | Non-Participating | 724119.23 | 4774141.79 | 33 | 36 | 36 | 31 | 28 | 34 | 25 | 21 | 18 | 0 |
| 175 | Residential | Non-Participating | 729710.98 | 4776892.58 | 32 | 35 | 35 | 31 | 27 | 33 | 25 | 22 | 19 | 0 |
| 476 | Residential | Non-Participating | 730850.15 | 4774664.26 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 22 | 19 | 0 |
| 550 | Residential | Non-Participating | 729133.41 | 4775868.04 | 32 | 36 | 35 | 31 | 28 | 34 | 25 | 21 | 16 | 0 |
| 129 | Residential | Non-Participating | 721281.00 | 4774300.22 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 22 | 21 | 0 |
| 840 | Residential | Non-Participating | 728127.66 | 4775688.34 | 32 | 36 | 38 | 32 | 29 | 33 | 25 | 20 | 16 | 0 |
| 1117 | Residential | Non-Participating | 723869.54 | 4775409.57 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 15 | 0 |
| 471 | Residential | Non-Participating | 730671.92 | 4774630.30 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 374 | Residential | Non-Participating | 729197.60 | 4774518.61 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 1121 | Residential | Non-Participating | 723904.36 | 4775405.38 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 1038 | Residential | Non-Participating | 724066.58 | 4776893.30 | 32 | 35 | 36 | 31 | 27 | 33 | 25 | 21 | 19 | 0 |
| 1149 | Residential | Non-Participating | 723882.86 | 4775366.57 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 836 | Residential | Non-Participating | 728368.23 | 4775786.01 | 32 | 36 | 37 | 32 | 28 | 33 | 25 | 20 | 14 | 0 |
| 1119 | Residential | Non-Participating | 723925.93 | 4775409.25 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 1029 | Residential | Non-Participating | 731402.56 | 4775687.63 | 32 | 34 | 34 | 30 | 27 | 33 | 25 | 21 | 20 | 0 |
| 1005 | Residential | Non-Participating | 731414.47 | 4775435.67 | 32 | 35 | 34 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 1108 | Residential | Non-Participating | 731563.43 | 4774956.90 | 32 | 33 | 33 | 30 | 27 | 32 | 25 | 22 | 22 | 0 |
| 10 | Residential | Non-Participating | 721374.17 | 4774839.15 | 32 | 35 | 34 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 903 | Residential | Non-Participating | 723921.69 | 4775711.12 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 554 | Residential | Non-Participating | 729165.74 | 4775920.62 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 930 | Residential | Non-Participating | 724117.78 | 4774089.47 | 32 | 36 | 36 | 30 | 27 | 33 | 25 | 20 | 16 | 0 |
| 441 | Residential | Non-Participating | 728380.62 | 4774794.38 | 32 | 35 | 35 | 31 | 27 | 33 | 25 | 20 | 16 | 0 |
| 120 | Residential | Non-Participating | 721630.11 | 4775174.75 | 32 | 34 | 34 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 792 | Residential | Non-Participating | 726264.37 | 4777056.36 | 32 | 36 | 40 | 35 | 30 | 32 | 26 | 17 | 0 | 0 |
| 417 | Residential | Non-Participating | 725996.58 | 4773793.92 | 32 | 36 | 36 | 30 | 27 | 33 | 24 | 19 | 10 | 0 |
| 574 | Residential | Non-Participating | 729198.60 | 4775966.03 | 32 | 35 | 35 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1150 | Residential | Non-Participating | 723970.79 | 4775503.66 | 32 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 952 | Residential | Non-Participating | 727747.66 | 4775660.04 | 32 | 34 | 34 | 32 | 28 | 33 | 24 | 20 | 18 | 0 |
| 1115 | Residential | Non-Participating | 723980.93 | 4775590.81 | 32 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 372 | Residential | Non-Participating | 729283.10 | 4774405.12 | 32 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 16 | 0 |
| 1128 | Residential | Non-Participating | 723986.51 | 4775560.82 | 32 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1042 | Residential | Non-Participating | 724089.99 | 4776926.37 | 32 | 35 | 36 | 31 | 27 | 32 | 24 | 20 | 17 | 0 |
| 197 | Residential | Non-Participating | 729792.79 | 4776992.77 | 31 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 16 | 0 |
| 931 | Residential | Non-Participating | 724115.08 | 4774024.30 | 31 | 36 | 36 | 30 | 27 | 33 | 24 | 19 | 14 | 0 |
| 900 | Residential | Non-Participating | 723984.23 | 4775852.95 | 31 | 34 | 34 | 30 | 28 | 33 | 24 | 19 | 11 | 0 |
| 1016 | Residential | Non-Participating | 731409.24 | 4775519.08 | 31 | 34 | 34 | 30 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1041 | Residential | Non-Participating | 724103.33 | 4776926.16 | 31 | 35 | 36 | 31 | 27 | 32 | 24 | 20 | 17 | 0 |
| 800 | Residential | Non-Participating | 726341.01 | 4777087.79 | 31 | 36 | 40 | 35 | 30 | 32 | 25 | 16 | 0 | 0 |
| 196 | Residential | Non-Participating | 729940.00 | 4777038.55 | 31 | 35 | 34 | 30 | 26 | 32 | 24 | 20 | 15 | 0 |
| 1031 | Residential | Non-Participating | 731478.97 | 4775678.66 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 18 | 0 |
| 1028 | Residential | Non-Participating | 731628.78 | 4775862.55 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 21 | 19 | 0 |
| 796 | Residential | Non-Participating | 726523.80 | 4777148.13 | 31 | 35 | 40 | 35 | 30 | 32 | 26 | 17 | 1 | 0 |
| 1033 | Residential | Non-Participating | 731422.69 | 4775589.11 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1184 | Residential | Non-Participating | 726878.49 | 4777103.97 | 31 | 35 | 39 | 35 | 30 | 32 | 25 | 17 | 8 | 0 |
| 1017 | Residential | Non-Participating | 731435.10 | 4775555.01 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 15 | 0 |
| 416 | Residential | Non-Participating | 725907.67 | 4773755.90 | 31 | 35 | 35 | 30 | 27 | 33 | 24 | 18 | 8 | 0 |
| 543 | Residential | Non-Participating | 729223.99 | 4776058.44 | 31 | 34 | 34 | 30 | 27 | 32 | 24 | 18 | 10 | 0 |
| 1032 | Residential | Non-Participating | 731470.63 | 4775613.43 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1104 | Residential | Non-Participating | 731558.04 | 4774875.78 | 31 | 32 | 32 | 29 | 26 | 32 | 24 | 21 | 20 | 0 |
| 539 | Residential | Non-Participating | 729247.86 | 4776115.16 | 31 | 34 | 34 | 30 | 27 | 32 | 24 | 18 | 11 | 0 |
| 1109 | Residential | Non-Participating | 731614.94 | 4774986.36 | 31 | 33 | 33 | 29 | 26 | 32 | 23 | 20 | 20 | 0 |
| 412 | Residential | Non-Participating | 725923.56 | 4773684.66 | 31 | 35 | 35 | 30 | 27 | 32 | 24 | 18 | 10 | 0 |
| 542 | Residential | Non-Participating | 729135.55 | 4776074.64 | 31 | 34 | 34 | 30 | 27 | 32 | 23 | 18 | 10 | 0 |
| 1043 | Residential | Non-Participating | 724107.74 | 4776965.68 | 31 | 34 | 35 | 30 | 27 | 32 | 24 | 19 | 15 | 0 |
| 415 | Residential | Non-Participating | 725807.21 | 4773736.35 | 31 | 35 | 35 | 30 | 27 | 32 | 23 | 17 | 5 | 0 |
| 15 | Residential | Non-Participating | 721398.19 | 4775073.21 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 13 | 0 |
| 484 | Residential | Non-Participating | 731410.23 | 4774783.16 | 31 | 31 | 31 | 29 | 26 | 31 | 23 | 20 | 20 | 0 |
| 813 | Residential | Non-Participating | 728412.48 | 4777332.87 | 31 | 33 | 34 | 30 | 27 | 31 | 23 | 20 | 19 | 0 |
| 23 | Residential | Non-Participating | 721496.48 | 4775161.42 | 30 | 33 | 33 | 29 | 26 | 32 | 23 | 19 | 14 | 0 |
| 1182 | Residential | Non-Participating | 727143.38 | 4777202.69 | 30 | 35 | 38 | 33 | 29 | 31 | 24 | 17 | 12 | 0 |
| 373 | Residential | Non-Participating | 729169.12 | 4774409.14 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 13 | 0 |
| 393 | Residential | Non-Participating | 729202.17 | 4774357.05 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 12 | 0 |
| 411 | Residential | Non-Participating | 725801.60 | 4773667.29 | 30 | 35 | 35 | 29 | 26 | 32 | 23 | 16 | 6 | 0 |
| 395 | Residential | Non-Participating | 729149.53 | 4774376.05 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 11 | 0 |
| 327 | Residential | Non-Participating | 730202.76 | 4774395.60 | 30 | 34 | 34 | 28 | 26 | 32 | 23 | 18 | 9 | 0 |
| 1107 | Residential | Non-Participating | 731631.99 | 4774936.63 | 30 | 32 | 32 | 28 | 25 | 31 | 23 | 20 | 18 | 0 |
| 6 | Residential | Non-Participating | 721445.68 | 4775152.10 | 30 | 33 | 33 | 28 | 26 | 31 | 23 | 18 | 12 | 0 |
| 410 | Residential | Non-Participating | 725730.08 | 4773652.04 | 30 | 35 | 35 | 29 | 26 | 32 | 23 | 16 | 3 | 0 |
| 795 | Residential | Non-Participating | 726791.37 | 4777222.00 | 30 | 34 | 39 | 34 | 29 | 31 | 24 | 14 | 2 | 0 |
| 328 | Residential | Non-Participating | 730331.04 | 4774403.28 | 30 | 34 | 34 | 28 | 25 | 31 | 23 | 17 | 8 | 0 |
| 839 | Residential | Non-Participating | 727864.06 | 4775670.46 | 30 | 32 | 33 | 31 | 27 | 31 | 22 | 17 | 13 | 0 |
| 414 | Residential | Non-Participating | 725564.14 | 4773712.43 | 30 | 35 | 35 | 29 | 26 | 32 | 22 | 15 | 0 | 0 |
| 812 | Residential | Non-Participating | 728407.33 | 4777381.45 | 30 | 32 | 33 | 30 | 26 | 31 | 22 | 19 | 18 | 0 |
| 1181 | Residential | Non-Participating | 727424.83 | 4777261.94 | 30 | 35 | 38 | 32 | 28 | 31 | 23 | 15 | 8 | 0 |
| 418 | Residential | Non-Participating | 725684.35 | 4773634.06 | 30 | 35 | 34 | 29 | 26 | 31 | 22 | 15 | 2 | 0 |
| 1110 | Residential | Non-Participating | 731672.81 | 4775008.82 | 30 | 32 | 32 | 28 | 25 | 31 | 22 | 19 | 17 | 0 |
| 211 | Residential | Non-Participating | 726570.29 | 4772515.35 | 30 | 31 | 31 | 28 | 25 | 30 | 22 | 19 | 20 | 0 |
| 508 | Residential | Non-Participating | 728471.87 | 4776377.38 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 10 | 0 |
| 413 | Residential | Non-Participating | 725519.84 | 4773684.95 | 30 | 35 | 34 | 29 | 26 | 31 | 22 | 15 | 0 | 0 |
| 465 | Residential | Non-Participating | 730540.74 | 4774482.22 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 510 | Residential | Non-Participating | 728475.58 | 4776335.38 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 10 | 0 |
| 22 | Residential | Non-Participating | 721375.37 | 4775152.74 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 331 | Residential | Non-Participating | 730477.03 | 4774453.11 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 9 | 0 |
| 5 | Residential | Non-Participating | 721438.57 | 4775223.58 | 30 | 33 | 32 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 29 | Residential | Non-Participating | 721418.14 | 4775276.00 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 804 | Residential | Non-Participating | 728010.95 | 4777435.68 | 29 | 31 | 31 | 29 | 26 | 30 | 22 | 19 | 18 | 0 |
| 192 | Residential | Non-Participating | 730047.50 | 4777204.44 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 321 | Residential | Non-Participating | 730166.96 | 4774304.58 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 16 | 6 | 0 |
| 318 | Residential | Non-Participating | 730093.87 | 4774271.95 | 29 | 34 | 33 | 28 | 25 | 31 | 22 | 16 | 7 | 0 |
| 391 | Residential | Non-Participating | 729124.31 | 4774296.74 | 29 | 34 | 33 | 28 | 25 | 31 | 22 | 16 | 8 | 0 |
| 14 | Residential | Non-Participating | 721239.83 | 4775005.35 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 9 | 0 |
| 803 | Residential | Non-Participating | 727914.34 | 4777440.42 | 29 | 32 | 32 | 29 | 25 | 30 | 22 | 18 | 16 | 0 |
| 466 | Residential | Non-Participating | 730574.06 | 4774504.41 | 29 | 33 | 32 | 28 | 25 | 31 | 22 | 17 | 10 | 0 |
| 33 | Residential | Non-Participating | 721402.66 | 4775323.35 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 7 | 0 |
| 126 | Residential | Non-Participating | 721155.40 | 4774200.75 | 29 | 33 | 33 | 27 | 24 | 30 | 22 | 17 | 13 | 0 |
| 390 | Residential | Non-Participating | 729171.45 | 4774265.89 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 16 | 8 | 0 |
| 1021 | Residential | Non-Participating | 731716.15 | 4775919.65 | 29 | 32 | 32 | 28 | 25 | 30 | 22 | 17 | 15 | 0 |
| 809 | Residential | Non-Participating | 728423.69 | 4777411.44 | 29 | 31 | 32 | 29 | 26 | 30 | 21 | 18 | 16 | 0 |
| 326 | Residential | Non-Participating | 730431.30 | 4774406.08 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 16 | 7 | 0 |
| 21 | Residential | Non-Participating | 721298.18 | 4775150.69 | 29 | 33 | 32 | 27 | 25 | 30 | 22 | 17 | 8 | 0 |
| 996 | Residential | Non-Participating | 728966.88 | 4777521.23 | 29 | 34 | 35 | 29 | 25 | 30 | 22 | 17 | 11 | 0 |
| 807 | Residential | Non-Participating | 728401.19 | 4777423.79 | 29 | 30 | 30 | 29 | 26 | 30 | 21 | 18 | 16 | 0 |
| 38 | Residential | Non-Participating | 721388.89 | 4775368.01 | 29 | 33 | 33 | 27 | 25 | 30 | 22 | 16 | 5 | 0 |
| 316 | Residential | Non-Participating | 730022.97 | 4774219.17 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 6 | 0 |
| 313 | Residential | Non-Participating | 729885.93 | 4774161.33 | 29 | 33 | 33 | 27 | 25 | 30 | 22 | 16 | 6 | 0 |
| 147 | Residential | Non-Participating | 724194.25 | 4777091.81 | 29 | 33 | 34 | 29 | 25 | 30 | 22 | 16 | 8 | 0 |
| 406 | Residential | Non-Participating | 725376.78 | 4773605.51 | 29 | 34 | 34 | 28 | 25 | 31 | 21 | 13 | 0 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 314 | Residential | Non-Participating | 729948.86 | 4774191.54 | 29 | 33 | 33 | 27 | 25 | 30 | 21 | 16 | 7 | 0 |
| 9 | Residential | Non-Participating | 721348.94 | 4775222.99 | 29 | 32 | 32 | 27 | 25 | 30 | 22 | 16 | 7 | 0 |
| 31 | Residential | Non-Participating | 721342.77 | 4775305.43 | 29 | 33 | 32 | 27 | 25 | 30 | 22 | 16 | 5 | 0 |
| 392 | Residential | Non-Participating | 728958.10 | 4774322.18 | 29 | 33 | 33 | 28 | 25 | 30 | 21 | 15 | 3 | 0 |
| 1111 | Residential | Non-Participating | 731735.55 | 4775045.18 | 29 | 32 | 31 | 27 | 24 | 30 | 21 | 17 | 14 | 0 |
| 187 | Residential | Non-Participating | 730189.21 | 4777278.94 | 29 | 33 | 33 | 28 | 24 | 30 | 21 | 15 | 5 | 0 |
| 35 | Residential | Non-Participating | 721342.73 | 4775335.40 | 29 | 33 | 32 | 27 | 24 | 30 | 21 | 16 | 5 | 0 |
| 811 | Residential | Non-Participating | 728104.85 | 4777386.29 | 29 | 29 | 29 | 29 | 26 | 30 | 20 | 16 | 17 | 0 |
| 41 | Residential | Non-Participating | 721377.25 | 4775438.39 | 29 | 33 | 32 | 27 | 24 | 30 | 21 | 15 | 4 | 0 |
| 186 | Residential | Non-Participating | 730068.30 | 4777289.94 | 29 | 33 | 33 | 27 | 24 | 30 | 21 | 15 | 5 | 0 |
| 1008 | Residential | Non-Participating | 731768.52 | 4775157.34 | 29 | 32 | 32 | 27 | 24 | 30 | 21 | 17 | 12 | 0 |
| 825 | Residential | Non-Participating | 727894.73 | 4777525.91 | 28 | 32 | 32 | 29 | 25 | 29 | 21 | 17 | 12 | 0 |
| 19 | Residential | Non-Participating | 721236.82 | 4775148.32 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 16 | 6 | 0 |
| 480 | Residential | Non-Participating | 731233.86 | 4774711.91 | 28 | 27 | 27 | 28 | 26 | 30 | 19 | 16 | 15 | 0 |
| 190 | Residential | Non-Participating | 729710.66 | 4777219.08 | 28 | 33 | 33 | 28 | 25 | 30 | 21 | 14 | 3 | 0 |
| 189 | Residential | Non-Participating | 729728.59 | 4777228.39 | 28 | 33 | 33 | 28 | 25 | 30 | 21 | 14 | 3 | 0 |
| 801 | Residential | Non-Participating | 727758.11 | 4777459.63 | 28 | 32 | 32 | 29 | 25 | 29 | 20 | 16 | 10 | 0 |
| 1185 | Residential | Non-Participating | 727168.71 | 4777318.85 | 28 | 33 | 37 | 32 | 27 | 29 | 21 | 10 | 0 | 0 |
| 162 | Residential | Non-Participating | 724071.22 | 4773625.65 | 28 | 34 | 34 | 28 | 25 | 30 | 20 | 12 | 0 | 0 |
| 387 | Residential | Non-Participating | 729139.66 | 4774149.00 | 28 | 32 | 32 | 27 | 24 | 29 | 20 | 14 | 3 | 0 |
| 479 | Residential | Non-Participating | 731190.60 | 4774696.78 | 28 | 27 | 26 | 27 | 26 | 29 | 19 | 15 | 13 | 0 |
| 1178 | Residential | Non-Participating | 727341.32 | 4777309.54 | 28 | 33 | 37 | 32 | 27 | 29 | 21 | 10 | 0 | 0 |
| 320 | Residential | Non-Participating | 730292.58 | 4774295.99 | 28 | 32 | 31 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 978 | Residential | Non-Participating | 724539.98 | 4773639.39 | 28 | 33 | 33 | 28 | 25 | 30 | 20 | 12 | 0 | 0 |
| 183 | Residential | Non-Participating | 730282.34 | 4777353.86 | 28 | 33 | 33 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 385 | Residential | Non-Participating | 729120.27 | 4774107.71 | 28 | 32 | 32 | 27 | 24 | 29 | 20 | 13 | 1 | 0 |
| 505 | Residential | Non-Participating | 728404.50 | 4776021.03 | 28 | 31 | 33 | 29 | 26 | 29 | 19 | 11 | 0 | 0 |
| 961 | Residential | Non-Participating | 724348.24 | 4773639.01 | 28 | 33 | 34 | 28 | 25 | 29 | 20 | 11 | 0 | 0 |
| 136 | Residential | Non-Participating | 721047.53 | 4774140.06 | 27 | 32 | 32 | 26 | 23 | 29 | 20 | 15 | 7 | 0 |
| 982 | Residential | Non-Participating | 724649.21 | 4773632.27 | 27 | 32 | 32 | 27 | 24 | 29 | 20 | 12 | 0 | 0 |
| 999 | Residential | Non-Participating | 723238.68 | 4777217.14 | 27 | 32 | 33 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 977 | Residential | Non-Participating | 725056.87 | 4773660.84 | 27 | 32 | 32 | 27 | 25 | 29 | 19 | 11 | 0 | 0 |
| 970 | Residential | Non-Participating | 724584.50 | 4773579.17 | 27 | 33 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 980 | Residential | Non-Participating | 724380.17 | 4773634.41 | 27 | 33 | 34 | 28 | 25 | 29 | 19 | 11 | 0 | 0 |
| 972 | Residential | Non-Participating | 724634.12 | 4773578.39 | 27 | 33 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 979 | Residential | Non-Participating | 725089.55 | 4773656.21 | 27 | 32 | 32 | 27 | 25 | 29 | 19 | 11 | 0 | 0 |
| 1176 | Residential | Non-Participating | 727473.19 | 4777362.36 | 27 | 33 | 36 | 31 | 26 | 28 | 20 | 9 | 0 | 0 |
| 182 | Residential | Non-Participating | 730397.07 | 4777391.97 | 27 | 33 | 33 | 26 | 23 | 29 | 20 | 13 | 0 | 0 |
| 971 | Residential | Non-Participating | 724528.67 | 4773576.47 | 27 | 32 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 631 | Residential | Non-Participating | 729048.32 | 4774060.84 | 27 | 32 | 32 | 27 | 24 | 29 | 19 | 12 | 0 | 0 |
| 215 | Residential | Non-Participating | 726574.02 | 4772408.25 | 27 | 29 | 29 | 26 | 23 | 28 | 19 | 16 | 14 | 0 |
| 806 | Residential | Non-Participating | 728326.02 | 4777429.36 | 27 | 27 | 27 | 28 | 25 | 28 | 18 | 14 | 13 | 0 |
| 872 | Residential | Non-Participating | 730481.84 | 4777399.25 | 27 | 32 | 33 | 26 | 23 | 29 | 20 | 13 | 0 | 0 |
| 317 | Residential | Non-Participating | 730197.71 | 4774255.36 | 27 | 31 | 30 | 26 | 24 | 29 | 19 | 13 | 1 | 0 |
| 975 | Residential | Non-Participating | 724481.40 | 4773563.69 | 27 | 32 | 33 | 27 | 24 | 29 | 19 | 10 | 0 | 0 |
| 629 | Residential | Non-Participating | 729097.83 | 4773998.72 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 968 | Residential | Non-Participating | 725009.91 | 4773598.09 | 27 | 31 | 31 | 27 | 24 | 29 | 19 | 10 | 0 | 0 |
| 1112 | Residential | Non-Participating | 731870.28 | 4775055.71 | 27 | 31 | 30 | 26 | 23 | 28 | 19 | 14 | 7 | 0 |
| 181 | Residential | Non-Participating | 730419.48 | 4777448.31 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 468 | Residential | Non-Participating | 730976.46 | 4774609.09 | 27 | 26 | 26 | 27 | 25 | 28 | 18 | 13 | 8 | 0 |
| 992 | Residential | Non-Participating | 728658.15 | 4777494.01 | 27 | 29 | 31 | 28 | 25 | 28 | 18 | 14 | 9 | 0 |
| 630 | Residential | Non-Participating | 729047.33 | 4773996.87 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 241 | Residential | Non-Participating | 727938.57 | 4773896.99 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 11 | 0 | 0 |
| 473 | Residential | Non-Participating | 731345.22 | 4774667.44 | 27 | 25 | 25 | 26 | 25 | 28 | 18 | 14 | 11 | 0 |
| 973 | Residential | Non-Participating | 724842.58 | 4773565.86 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 626 | Residential | Non-Participating | 729092.21 | 4773975.11 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 828 | Residential | Non-Participating | 728192.45 | 4777492.34 | 27 | 28 | 28 | 28 | 25 | 28 | 18 | 13 | 11 | 0 |
| 180 | Residential | Non-Participating | 730332.85 | 4777455.33 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 625 | Residential | Non-Participating | 729047.55 | 4773967.04 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 10 | 0 | 0 |
| 624 | Residential | Non-Participating | 729091.42 | 4773955.31 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 967 | Residential | Non-Participating | 724920.33 | 4773638.00 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 871 | Residential | Non-Participating | 730509.26 | 4777463.86 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 46 | Residential | Non-Participating | 721357.27 | 4775527.28 | 26 | 30 | 29 | 26 | 23 | 28 | 19 | 13 | 1 | 0 |
| 245 | Residential | Non-Participating | 727941.82 | 4773829.14 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 623 | Residential | Non-Participating | 729040.61 | 4773944.37 | 26 | 32 | 32 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 622 | Residential | Non-Participating | 729086.06 | 4773932.48 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 10 | 0 | 0 |
| 163 | Residential | Non-Participating | 724068.17 | 4773563.24 | 26 | 33 | 33 | 27 | 24 | 28 | 18 | 8 | 0 | 0 |
| 829 | Residential | Non-Participating | 728257.16 | 4777490.59 | 26 | 27 | 28 | 27 | 25 | 28 | 17 | 13 | 11 | 0 |
| 167 | Residential | Non-Participating | 723835.19 | 4773501.33 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 11 | 0 | 0 |
| 469 | Residential | Non-Participating | 731287.34 | 4774632.13 | 26 | 25 | 25 | 26 | 25 | 28 | 17 | 13 | 10 | 0 |
| 1004 | Residential | Non-Participating | 731949.68 | 4775092.04 | 26 | 31 | 30 | 25 | 22 | 28 | 19 | 13 | 4 | 0 |
| 168 | Residential | Non-Participating | 723675.05 | 4773455.48 | 26 | 32 | 32 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 619 | Residential | Non-Participating | 729086.47 | 4773908.47 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 422 | Residential | Non-Participating | 731132.41 | 4774605.26 | 26 | 26 | 25 | 26 | 25 | 28 | 17 | 12 | 8 | 0 |
| 4 | Residential | Non-Participating | 721358.43 | 4775598.79 | 26 | 29 | 29 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 621 | Residential | Non-Participating | 729037.87 | 4773918.07 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 27 | Residential | Non-Participating | 721025.31 | 4775183.76 | 26 | 30 | 30 | 25 | 23 | 28 | 19 | 12 | 0 | 0 |
| 615 | Residential | Non-Participating | 729077.58 | 4773891.93 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 10 | 0 | 0 |
| 255 | Residential | Non-Participating | 728045.32 | 4773810.50 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 9 | 0 | 0 |
| 421 | Residential | Non-Participating | 731217.87 | 4774599.79 | 26 | 25 | 25 | 26 | 24 | 28 | 17 | 12 | 8 | 0 |
| 42 | Residential | Non-Participating | 721300.63 | 4775439.01 | 26 | 29 | 29 | 25 | 23 | 28 | 18 | 12 | 0 | 0 |
| 1006 | Residential | Non-Participating | 732015.89 | 4775134.43 | 26 | 31 | 30 | 25 | 22 | 27 | 18 | 12 | 1 | 0 |
| 616 | Residential | Non-Participating | 728943.97 | 4773891.22 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 613 | Residential | Non-Participating | 728975.13 | 4773880.74 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 724 | Residential | Non-Participating | 729074.07 | 4773862.04 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 259 | Residential | Non-Participating | 728093.92 | 4773807.33 | 26 | 31 | 30 | 26 | 24 | 28 | 17 | 9 | 0 | 0 |
| 612 | Residential | Non-Participating | 728909.84 | 4773878.32 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 8 | 0 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 721 | Residential | Non-Participating | 729073.05 | 4773845.92 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 179 | Residential | Non-Participating | 730341.31 | 4777505.17 | 26 | 31 | 32 | 26 | 22 | 27 | 18 | 10 | 0 | 0 |
| 256 | Residential | Non-Participating | 728122.41 | 4773811.55 | 26 | 31 | 30 | 26 | 23 | 28 | 17 | 8 | 0 | 0 |
| 17 | Residential | Non-Participating | 720947.49 | 4775125.92 | 26 | 30 | 30 | 25 | 22 | 27 | 18 | 11 | 0 | 0 |
| 716 | Residential | Non-Participating | 729065.57 | 4773815.10 | 26 | 31 | 31 | 26 | 23 | 27 | 18 | 8 | 0 | 0 |
| 718 | Residential | Non-Participating | 729019.22 | 4773815.07 | 26 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 1022 | Residential | Non-Participating | 731786.69 | 4775886.09 | 26 | 28 | 28 | 25 | 23 | 27 | 17 | 11 | 3 | 0 |
| 608 | Residential | Non-Participating | 728858.52 | 4773869.05 | 26 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 605 | Residential | Non-Participating | 728803.87 | 4773860.70 | 26 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 247 | Residential | Non-Participating | 728736.11 | 4773849.86 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 606 | Residential | Non-Participating | 728832.65 | 4773864.22 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 150 | Residential | Non-Participating | 723656.49 | 4773370.52 | 25 | 31 | 31 | 25 | 23 | 27 | 17 | 9 | 0 | 0 |
| 45 | Residential | Non-Participating | 721350.75 | 4775475.19 | 25 | 28 | 27 | 25 | 23 | 27 | 17 | 11 | 0 | 0 |
| 782 | Residential | Non-Participating | 729358.86 | 4777674.71 | 25 | 31 | 31 | 26 | 22 | 27 | 18 | 10 | 0 | 0 |
| 251 | Residential | Non-Participating | 728677.01 | 4773842.04 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 248 | Residential | Non-Participating | 728707.21 | 4773846.95 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 771 | Residential | Non-Participating | 728778.59 | 4773855.78 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 250 | Residential | Non-Participating | 728650.16 | 4773838.05 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 246 | Residential | Non-Participating | 728759.34 | 4773854.42 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 702 | Residential | Non-Participating | 729071.42 | 4773779.91 | 25 | 31 | 31 | 26 | 22 | 27 | 17 | 8 | 0 | 0 |
| 151 | Residential | Non-Participating | 723726.55 | 4773352.67 | 25 | 31 | 31 | 25 | 23 | 27 | 17 | 8 | 0 | 0 |
| 2 | Residential | Non-Participating | 721250.90 | 4775573.07 | 25 | 29 | 29 | 25 | 23 | 27 | 17 | 11 | 0 | 0 |
| 260 | Residential | Non-Participating | 728194.37 | 4773807.03 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 252 | Residential | Non-Participating | 728595.08 | 4773831.83 | 25 | 31 | 31 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 253 | Residential | Non-Participating | 728566.17 | 4773824.45 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 258 | Residential | Non-Participating | 728539.39 | 4773820.25 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 263 | Residential | Non-Participating | 728488.66 | 4773811.49 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 717 | Residential | Non-Participating | 728860.19 | 4773810.77 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 864 | Residential | Non-Participating | 727766.80 | 4773162.33 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 10 | 0 | 0 |
| 694 | Residential | Non-Participating | 729055.48 | 4773751.02 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 261 | Residential | Non-Participating | 728381.69 | 4773806.78 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 264 | Residential | Non-Participating | 728409.47 | 4773804.84 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 267 | Residential | Non-Participating | 728747.55 | 4773802.94 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 310 | Residential | Non-Participating | 730099.82 | 4774185.32 | 25 | 28 | 28 | 25 | 23 | 27 | 16 | 9 | 0 | 0 |
| 276 | Residential | Non-Participating | 728476.47 | 4773775.26 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 268 | Residential | Non-Participating | 728666.23 | 4773797.32 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 266 | Residential | Non-Participating | 728696.53 | 4773796.53 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 862 | Residential | Non-Participating | 727834.62 | 4773223.80 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 9 | 0 | 0 |
| 269 | Residential | Non-Participating | 728722.77 | 4773798.50 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 714 | Residential | Non-Participating | 728832.33 | 4773807.11 | 25 | 30 | 30 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 221 | Residential | Non-Participating | 721281.29 | 4775855.13 | 25 | 29 | 28 | 25 | 22 | 27 | 17 | 10 | 0 | 0 |
| 712 | Residential | Non-Participating | 728796.08 | 4773802.63 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 312 | Residential | Non-Participating | 730073.71 | 4774167.28 | 25 | 28 | 28 | 25 | 23 | 27 | 16 | 9 | 0 | 0 |
| 262 | Residential | Non-Participating | 728319.88 | 4773805.84 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 7 | 0 | 0 |
| 272 | Residential | Non-Participating | 728594.10 | 4773787.29 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 273 | Residential | Non-Participating | 728563.13 | 4773784.48 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 271 | Residential | Non-Participating | 728619.33 | 4773789.32 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 270 | Residential | Non-Participating | 728651.43 | 4773791.41 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 711 | Residential | Non-Participating | 728774.18 | 4773799.75 | 25 | 30 | 30 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 282 | Residential | Non-Participating | 728402.85 | 4773754.82 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 281 | Residential | Non-Participating | 728530.84 | 4773763.16 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 155 | Residential | Non-Participating | 723487.51 | 4773282.37 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 284 | Residential | Non-Participating | 728385.09 | 4773738.65 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 713 | Residential | Non-Participating | 728922.42 | 4773806.03 | 25 | 30 | 30 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 156 | Residential | Non-Participating | 723430.22 | 4773252.51 | 25 | 31 | 32 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 286 | Residential | Non-Participating | 728467.97 | 4773737.61 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 464 | Residential | Non-Participating | 731065.40 | 4774458.36 | 25 | 24 | 24 | 25 | 23 | 26 | 16 | 10 | 3 | 0 |
| 528 | Residential | Non-Participating | 722308.67 | 4773252.42 | 25 | 32 | 32 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 609 | Residential | Non-Participating | 729589.05 | 4773896.81 | 25 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 219 | Residential | Non-Participating | 721253.19 | 4775886.45 | 25 | 29 | 28 | 24 | 22 | 26 | 17 | 10 | 0 | 0 |
| 824 | Residential | Non-Participating | 728342.73 | 4777577.48 | 25 | 25 | 25 | 26 | 24 | 26 | 15 | 10 | 5 | 0 |
| 218 | Residential | Non-Participating | 721232.73 | 4776003.54 | 25 | 29 | 29 | 24 | 22 | 26 | 17 | 9 | 0 | 0 |
| 671 | Residential | Non-Participating | 729365.77 | 4773714.16 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 699 | Residential | Non-Participating | 729450.82 | 4773777.19 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 722 | Residential | Non-Participating | 729561.15 | 4773864.29 | 25 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 1026 | Residential | Non-Participating | 731850.81 | 4775877.14 | 25 | 27 | 27 | 24 | 22 | 26 | 16 | 10 | 0 | 0 |
| 287 | Residential | Non-Participating | 728515.52 | 4773726.20 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 285 | Residential | Non-Participating | 728628.02 | 4773740.81 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 1166 | Residential | Non-Participating | 723345.91 | 4773213.76 | 25 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 665 | Residential | Non-Participating | 729349.57 | 4773711.33 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 663 | Residential | Non-Participating | 729321.59 | 4773709.95 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 720 | Residential | Non-Participating | 729534.81 | 4773842.53 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 220 | Residential | Non-Participating | 721206.61 | 4775869.91 | 24 | 28 | 28 | 24 | 22 | 26 | 16 | 9 | 0 | 0 |
| 672 | Residential | Non-Participating | 729237.34 | 4773710.50 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 666 | Residential | Non-Participating | 729295.82 | 4773707.43 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 696 | Residential | Non-Participating | 729432.15 | 4773764.03 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 879 | Residential | Non-Participating | 727826.21 | 4773150.33 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 9 | 0 | 0 |
| 659 | Residential | Non-Participating | 729259.92 | 4773705.81 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 237 | Residential | Non-Participating | 727894.54 | 4773215.39 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 1164 | Residential | Non-Participating | 722733.09 | 4773217.91 | 24 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 222 | Residential | Non-Participating | 721215.85 | 4775832.62 | 24 | 28 | 28 | 24 | 22 | 26 | 16 | 9 | 0 | 0 |
| 662 | Residential | Non-Participating | 729218.06 | 4773705.71 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 994 | Residential | Non-Participating | 728752.89 | 4777569.26 | 24 | 27 | 29 | 27 | 24 | 26 | 15 | 9 | 2 | 0 |
| 683 | Residential | Non-Participating | 729394.54 | 4773732.63 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 670 | Residential | Non-Participating | 729190.90 | 4773703.60 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 1170 | Residential | Non-Participating | 722930.96 | 4773236.57 | 24 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 166 | Residential | Non-Participating | 723958.72 | 4773505.15 | 24 | 29 | 29 | 25 | 23 | 26 | 15 | 5 | 0 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1012 | Residential | Non-Participating | 732058.28 | 4775253.21 | 24 | 28 | 28 | 24 | 21 | 26 | 16 | 10 | 0 | 0 |
| 537 | Residential | Non-Participating | 721888.23 | 4773225.02 | 24 | 31 | 31 | 24 | 21 | 26 | 16 | 6 | 0 | 0 |
| 16 | Residential | Non-Participating | 720754.57 | 4775114.67 | 24 | 29 | 29 | 24 | 21 | 26 | 16 | 8 | 0 | 0 |
| 701 | Residential | Non-Participating | 729472.00 | 4773792.75 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 459 | Residential | Non-Participating | 731025.02 | 4774380.84 | 24 | 24 | 24 | 25 | 23 | 26 | 15 | 9 | 0 | 0 |
| 642 | Residential | Non-Participating | 729315.21 | 4773660.73 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 216 | Residential | Non-Participating | 721203.78 | 4776139.38 | 24 | 29 | 28 | 24 | 21 | 26 | 16 | 8 | 0 | 0 |
| 290 | Residential | Non-Participating | 728664.41 | 4773719.61 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 236 | Residential | Non-Participating | 727942.13 | 4773217.63 | 24 | 29 | 28 | 25 | 22 | 26 | 15 | 7 | 0 | 0 |
| 668 | Residential | Non-Participating | 729160.55 | 4773704.67 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 643 | Residential | Non-Participating | 729294.79 | 4773659.93 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 293 | Residential | Non-Participating | 728677.45 | 4773716.32 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 676 | Residential | Non-Participating | 729105.68 | 4773709.52 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 535 | Residential | Non-Participating | 721951.02 | 4773179.47 | 24 | 31 | 31 | 24 | 21 | 26 | 16 | 6 | 0 | 0 |
| 289 | Residential | Non-Participating | 728747.07 | 4773729.22 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 462 | Residential | Non-Participating | 731257.63 | 4774430.58 | 24 | 24 | 24 | 24 | 23 | 26 | 15 | 9 | 1 | 0 |
| 292 | Residential | Non-Participating | 728691.05 | 4773715.22 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 4 | 0 | 0 |
| 637 | Residential | Non-Participating | 729276.07 | 4773657.78 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 648 | Residential | Non-Participating | 729208.10 | 4773657.35 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 6 | 0 | 0 |
| 638 | Residential | Non-Participating | 729260.10 | 4773654.44 | 24 | 29 | 29 | 25 | 21 | 26 | 16 | 6 | 0 | 0 |
| 238 | Residential | Non-Participating | 727995.59 | 4773235.65 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 6 | 0 | 0 |
| 1167 | Residential | Non-Participating | 722686.66 | 4773151.26 | 24 | 30 | 31 | 25 | 21 | 26 | 15 | 5 | 0 | 0 |
| 647 | Residential | Non-Participating | 729181.55 | 4773653.73 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 6 | 0 | 0 |
| 1169 | Residential | Non-Participating | 722619.71 | 4773148.87 | 24 | 30 | 31 | 25 | 21 | 26 | 15 | 5 | 0 | 0 |
| 780 | Residential | Non-Participating | 729242.79 | 4773656.01 | 24 | 29 | 29 | 25 | 21 | 26 | 15 | 6 | 0 | 0 |
| 646 | Residential | Non-Participating | 729169.15 | 4773655.06 | 24 | 29 | 29 | 25 | 21 | 25 | 15 | 6 | 0 | 0 |
| 460 | Residential | Non-Participating | 731243.37 | 4774403.63 | 24 | 24 | 24 | 24 | 22 | 25 | 14 | 9 | 0 | 0 |
| 652 | Residential | Non-Participating | 729381.25 | 4773674.99 | 24 | 29 | 29 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 159 | Residential | Non-Participating | 723669.75 | 4773152.78 | 24 | 30 | 30 | 25 | 21 | 26 | 15 | 4 | 0 | 0 |
| 1027 | Residential | Non-Participating | 731974.22 | 4775878.91 | 24 | 27 | 26 | 24 | 21 | 25 | 15 | 8 | 0 | 0 |
| 536 | Residential | Non-Participating | 721810.59 | 4773174.89 | 24 | 31 | 30 | 24 | 21 | 25 | 15 | 5 | 0 | 0 |
| 229 | Residential | Non-Participating | 727926.92 | 4773165.93 | 24 | 28 | 28 | 25 | 22 | 25 | 15 | 7 | 0 | 0 |
| 634 | Residential | Non-Participating | 729142.92 | 4773643.19 | 24 | 29 | 29 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 692 | Residential | Non-Participating | 729053.94 | 4773740.52 | 24 | 29 | 29 | 25 | 22 | 25 | 15 | 3 | 0 | 0 |
| 458 | Residential | Non-Participating | 731034.22 | 4774322.34 | 23 | 23 | 23 | 24 | 22 | 25 | 14 | 8 | 0 | 0 |
| 533 | Residential | Non-Participating | 722488.87 | 4773133.79 | 23 | 30 | 31 | 24 | 21 | 25 | 15 | 4 | 0 | 0 |
| 984 | Residential | Non-Participating | 720508.02 | 4775126.51 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 707 | Residential | Non-Participating | 729499.39 | 4773808.08 | 23 | 28 | 28 | 24 | 22 | 25 | 14 | 5 | 0 | 0 |
| 157 | Residential | Non-Participating | 724139.27 | 4773265.70 | 23 | 29 | 31 | 26 | 22 | 25 | 14 | 2 | 0 | 0 |
| 153 | Residential | Non-Participating | 724080.78 | 4773322.69 | 23 | 29 | 30 | 26 | 22 | 25 | 14 | 2 | 0 | 0 |
| 332 | Residential | Non-Participating | 721609.74 | 4773171.40 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 618 | Residential | Non-Participating | 729625.51 | 4773918.33 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 5 | 0 | 0 |
| 1025 | Residential | Non-Participating | 732031.68 | 4775893.80 | 23 | 26 | 26 | 23 | 21 | 25 | 15 | 7 | 0 | 0 |
| 296 | Residential | Non-Participating | 728646.09 | 4773685.75 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 781 | Residential | Non-Participating | 729455.01 | 4777793.37 | 23 | 28 | 28 | 24 | 21 | 25 | 14 | 4 | 0 | 0 |
| 368 | Residential | Non-Participating | 721533.78 | 4773159.83 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 4 | 0 | 0 |
| 298 | Residential | Non-Participating | 728677.71 | 4773672.04 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 1051 | Residential | Non-Participating | 726573.79 | 4772129.48 | 23 | 27 | 27 | 24 | 21 | 24 | 15 | 9 | 1 | 0 |
| 299 | Residential | Non-Participating | 728712.58 | 4773661.19 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 160 | Residential | Non-Participating | 723679.00 | 4773047.54 | 23 | 30 | 29 | 24 | 21 | 25 | 14 | 1 | 0 | 0 |
| 366 | Residential | Non-Participating | 721500.35 | 4773154.81 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 456 | Residential | Non-Participating | 731052.54 | 4774154.81 | 23 | 25 | 25 | 24 | 21 | 24 | 14 | 7 | 0 | 0 |
| 74 | Residential | Non-Participating | 731225.66 | 4773949.56 | 23 | 28 | 28 | 23 | 20 | 25 | 14 | 6 | 0 | 0 |
| 232 | Residential | Non-Participating | 727991.09 | 4773175.48 | 23 | 26 | 26 | 24 | 21 | 24 | 14 | 6 | 0 | 0 |
| 76 | Residential | Non-Participating | 731148.87 | 4773927.79 | 23 | 28 | 28 | 23 | 20 | 25 | 14 | 6 | 0 | 0 |
| 364 | Residential | Non-Participating | 721445.82 | 4773150.31 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 362 | Residential | Non-Participating | 721404.49 | 4773146.11 | 23 | 30 | 30 | 23 | 20 | 24 | 14 | 4 | 0 | 0 |
| 1052 | Residential | Non-Participating | 726798.67 | 4772157.07 | 23 | 27 | 27 | 24 | 21 | 24 | 14 | 8 | 0 | 0 |
| 688 | Residential | Non-Participating | 729484.10 | 4773734.67 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 653 | Residential | Non-Participating | 729450.77 | 4773697.75 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 661 | Residential | Non-Participating | 728782.08 | 4773690.84 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 530 | Residential | Non-Participating | 722286.55 | 4772992.47 | 23 | 30 | 30 | 24 | 20 | 24 | 14 | 2 | 0 | 0 |
| 1050 | Residential | Non-Participating | 726587.25 | 4772092.90 | 23 | 27 | 26 | 23 | 20 | 24 | 14 | 9 | 0 | 0 |
| 986 | Residential | Non-Participating | 720358.20 | 4775145.63 | 23 | 30 | 30 | 23 | 20 | 24 | 14 | 3 | 0 | 0 |
| 1090 | Residential | Non-Participating | 728286.80 | 4777947.38 | 23 | 26 | 26 | 25 | 21 | 24 | 14 | 7 | 0 | 0 |
| 69 | Residential | Non-Participating | 731081.44 | 4773946.96 | 22 | 26 | 26 | 23 | 20 | 24 | 14 | 6 | 0 | 0 |
| 651 | Residential | Non-Participating | 728793.10 | 4773649.35 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 943 | Residential | Non-Participating | 729667.73 | 4777744.02 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 4 | 0 | 0 |
| 998 | Residential | Non-Participating | 720318.81 | 4775101.03 | 22 | 30 | 30 | 23 | 19 | 24 | 14 | 3 | 0 | 0 |
| 695 | Residential | Non-Participating | 729511.74 | 4773754.86 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 705 | Residential | Non-Participating | 729580.75 | 4773800.25 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 655 | Residential | Non-Participating | 728825.80 | 4773684.02 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 306 | Residential | Non-Participating | 728271.85 | 4773304.24 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 946 | Residential | Non-Participating | 729594.72 | 4777803.68 | 22 | 28 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 303 | Residential | Non-Participating | 728695.95 | 4773505.28 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 710 | Residential | Non-Participating | 729625.49 | 4773823.63 | 22 | 25 | 25 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 70 | Residential | Non-Participating | 730996.74 | 4773988.38 | 22 | 25 | 25 | 23 | 20 | 24 | 13 | 6 | 0 | 0 |
| 1007 | Residential | Non-Participating | 732077.75 | 4775158.48 | 22 | 25 | 25 | 23 | 20 | 24 | 13 | 6 | 0 | 0 |
| 102 | Residential | Non-Participating | 725966.27 | 4772022.81 | 22 | 29 | 29 | 23 | 20 | 24 | 13 | 5 | 0 | 0 |
| 669 | Residential | Non-Participating | 728853.62 | 4773689.97 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 772 | Residential | Non-Participating | 729039.12 | 4773583.37 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 641 | Residential | Non-Participating | 728845.67 | 4773641.62 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 904 | Residential | Non-Participating | 730095.90 | 4773922.65 | 22 | 24 | 24 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 72 | Residential | Non-Participating | 730629.86 | 4773989.17 | 22 | 24 | 24 | 23 | 21 | 24 | 12 | 4 | 0 | 0 |
| 640 | Residential | Non-Participating | 728867.69 | 4773640.30 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 73 | Residential | Non-Participating | 730563.48 | 4773953.39 | 22 | 24 | 24 | 23 | 21 | 24 | 12 | 3 | 0 | 0 |
| 75 | Residential | Non-Participating | 730739.14 | 4773912.10 | 22 | 24 | 24 | 23 | 20 | 23 | 13 | 4 | 0 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 639 | Residential | Non-Participating | 728924.81 | 4773640.56 | 22 | 25 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 649 | Residential | Non-Participating | 728951.84 | 4773650.59 | 22 | 25 | 25 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 765 | Residential | Non-Participating | 729039.88 | 4773541.14 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 769 | Residential | Non-Participating | 729039.12 | 4773565.17 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 365 | Residential | Non-Participating | 721324.33 | 4773144.58 | 22 | 29 | 29 | 22 | 19 | 24 | 13 | 1 | 0 | 0 |
| 909 | Residential | Non-Participating | 729712.95 | 4773832.38 | 22 | 23 | 23 | 24 | 21 | 23 | 12 | 3 | 0 | 0 |
| 657 | Residential | Non-Participating | 728874.48 | 4773687.75 | 22 | 25 | 25 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 667 | Residential | Non-Participating | 728939.24 | 4773695.30 | 22 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 874 | Residential | Non-Participating | 731023.49 | 4777311.09 | 22 | 25 | 24 | 23 | 20 | 23 | 12 | 4 | 0 | 0 |
| 656 | Residential | Non-Participating | 728899.46 | 4773689.13 | 22 | 25 | 25 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 664 | Residential | Non-Participating | 728916.86 | 4773691.08 | 22 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 758 | Residential | Non-Participating | 729030.73 | 4773514.45 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 906 | Residential | Non-Participating | 729995.07 | 4773916.38 | 22 | 23 | 23 | 24 | 21 | 23 | 11 | 2 | 0 | 0 |
| 635 | Residential | Non-Participating | 728899.71 | 4773642.75 | 22 | 25 | 25 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 753 | Residential | Non-Participating | 728843.53 | 4773473.25 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 768 | Residential | Non-Participating | 728921.46 | 4773546.76 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 944 | Residential | Non-Participating | 729806.46 | 4777731.62 | 22 | 25 | 25 | 24 | 20 | 23 | 12 | 3 | 0 | 0 |
| 756 | Residential | Non-Participating | 729030.53 | 4773490.01 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 905 | Residential | Non-Participating | 729888.62 | 4773911.94 | 21 | 23 | 23 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 877 | Residential | Non-Participating | 730447.25 | 4777603.88 | 21 | 26 | 27 | 24 | 21 | 23 | 12 | 2 | 0 | 0 |
| 230 | Residential | Non-Participating | 728027.10 | 4773175.59 | 21 | 24 | 24 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 752 | Residential | Non-Participating | 728870.34 | 4773471.45 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 762 | Residential | Non-Participating | 728979.88 | 4773527.40 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 754 | Residential | Non-Participating | 728974.60 | 4773478.81 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 759 | Residential | Non-Participating | 728914.65 | 4773516.48 | 21 | 26 | 26 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 1013 | Residential | Non-Participating | 732217.52 | 4775318.15 | 21 | 25 | 25 | 22 | 20 | 23 | 12 | 4 | 0 | 0 |
| 751 | Residential | Non-Participating | 728899.62 | 4773472.19 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 755 | Residential | Non-Participating | 728922.95 | 4773477.21 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 725 | Residential | Non-Participating | 729041.07 | 4773472.97 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 604 | Residential | Non-Participating | 728989.14 | 4773571.77 | 21 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 239 | Residential | Non-Participating | 728097.66 | 4773244.28 | 21 | 24 | 24 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 747 | Residential | Non-Participating | 729022.67 | 4773453.88 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 309 | Residential | Non-Participating | 728235.69 | 4773254.34 | 21 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 745 | Residential | Non-Participating | 728972.77 | 4773448.23 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 908 | Residential | Non-Participating | 729911.65 | 4773839.21 | 21 | 23 | 23 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 766 | Residential | Non-Participating | 728987.62 | 4773549.13 | 21 | 25 | 25 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 399 | Residential | Non-Participating | 732457.26 | 4775495.72 | 21 | 26 | 26 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 740 | Residential | Non-Participating | 729021.77 | 4773437.08 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 145 | Residential | Non-Participating | 731778.43 | 4774143.89 | 21 | 25 | 25 | 22 | 19 | 23 | 13 | 5 | 0 | 0 |
| 883 | Residential | Non-Participating | 727651.78 | 4772425.03 | 21 | 26 | 26 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 739 | Residential | Non-Participating | 728969.30 | 4773422.14 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 233 | Residential | Non-Participating | 728391.11 | 4773189.73 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 737 | Residential | Non-Participating | 729017.28 | 4773400.98 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 738 | Residential | Non-Participating | 728965.79 | 4773406.71 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 231 | Residential | Non-Participating | 728315.16 | 4773184.88 | 21 | 25 | 25 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 234 | Residential | Non-Participating | 728354.93 | 4773185.77 | 21 | 25 | 25 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 733 | Residential | Non-Participating | 728851.33 | 4773352.34 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 603 | Residential | Non-Participating | 732329.11 | 4776044.45 | 21 | 25 | 25 | 22 | 19 | 23 | 12 | 3 | 0 | 0 |
| 445 | Residential | Non-Participating | 728079.16 | 4773163.48 | 21 | 23 | 23 | 24 | 21 | 23 | 10 | 0 | 0 | 0 |
| 307 | Residential | Non-Participating | 728146.07 | 4773248.45 | 21 | 23 | 23 | 24 | 21 | 23 | 10 | 0 | 0 | 0 |
| 226 | Residential | Non-Participating | 728200.73 | 4773243.88 | 21 | 23 | 24 | 24 | 21 | 23 | 10 | 0 | 0 | 0 |
| 947 | Residential | Non-Participating | 729885.26 | 4777836.49 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 2 | 0 | 0 |
| 736 | Residential | Non-Participating | 728960.68 | 4773389.64 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 400 | Residential | Non-Participating | 732386.71 | 4775423.45 | 21 | 25 | 25 | 22 | 19 | 23 | 12 | 3 | 0 | 0 |
| 732 | Residential | Non-Participating | 728964.12 | 4773374.51 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 868 | Residential | Non-Participating | 731078.39 | 4777513.27 | 21 | 24 | 24 | 22 | 19 | 23 | 12 | 2 | 0 | 0 |
| 734 | Residential | Non-Participating | 729020.09 | 4773381.49 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 444 | Residential | Non-Participating | 728141.22 | 4773158.51 | 21 | 23 | 23 | 24 | 21 | 22 | 10 | 0 | 0 | 0 |
| 729 | Residential | Non-Participating | 729019.73 | 4773353.67 | 21 | 25 | 25 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 1010 | Residential | Non-Participating | 732129.72 | 4775182.37 | 21 | 21 | 21 | 22 | 20 | 22 | 11 | 3 | 0 | 0 |
| 446 | Residential | Non-Participating | 728281.13 | 4773159.53 | 21 | 24 | 24 | 24 | 20 | 22 | 10 | 0 | 0 | 0 |
| 726 | Residential | Non-Participating | 728957.79 | 4773320.44 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 728 | Residential | Non-Participating | 729009.02 | 4773329.55 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 453 | Residential | Non-Participating | 728097.71 | 4772454.49 | 21 | 27 | 27 | 23 | 19 | 22 | 11 | 0 | 0 | 0 |
| 454 | Residential | Non-Participating | 728154.49 | 4772456.41 | 20 | 27 | 27 | 23 | 19 | 22 | 11 | 0 | 0 | 0 |
| 937 | Residential | Non-Participating | 727182.20 | 4772189.68 | 20 | 24 | 24 | 23 | 20 | 22 | 11 | 2 | 0 | 0 |
| 401 | Residential | Non-Participating | 732442.88 | 4775400.98 | 20 | 25 | 25 | 21 | 19 | 22 | 12 | 3 | 0 | 0 |
| 786 | Residential | Non-Participating | 729347.61 | 4777805.09 | 20 | 23 | 23 | 24 | 20 | 22 | 10 | 0 | 0 | 0 |
| 451 | Residential | Non-Participating | 728356.64 | 4772472.10 | 20 | 28 | 28 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 452 | Residential | Non-Participating | 728290.45 | 4772463.79 | 20 | 27 | 27 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 870 | Residential | Non-Participating | 731171.34 | 4777483.67 | 20 | 24 | 23 | 22 | 19 | 22 | 10 | 0 | 0 | 0 |
| 1009 | Residential | Non-Participating | 732214.48 | 4775185.72 | 20 | 21 | 21 | 22 | 19 | 22 | 10 | 1 | 0 | 0 |
| 343 | Residential | Non-Participating | 720725.08 | 4773343.58 | 20 | 27 | 26 | 21 | 18 | 22 | 11 | 0 | 0 | 0 |
| 1094 | Residential | Non-Participating | 730546.38 | 4777725.26 | 19 | 21 | 22 | 22 | 19 | 21 | 9 | 0 | 0 | 0 |
| 357 | Residential | Non-Participating | 720962.68 | 4773061.00 | 19 | 28 | 27 | 21 | 17 | 21 | 9 | 0 | 0 | 0 |
| 884 | Residential | Non-Participating | 732553.46 | 4777033.18 | 19 | 25 | 25 | 20 | 17 | 21 | 10 | 0 | 0 | 0 |
| 142 | Residential | Non-Participating | 732057.81 | 4774082.58 | 18 | 22 | 22 | 21 | 18 | 20 | 9 | 0 | 0 | 0 |
| 204 | Residential | Non-Participating | 731561.89 | 4777454.80 | 18 | 21 | 22 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 403 | Residential | Non-Participating | 732426.96 | 4775364.97 | 18 | 20 | 20 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 82 | Residential | Non-Participating | 725816.16 | 4771930.09 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 85 | Residential | Non-Participating | 725657.11 | 4771913.93 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 90 | Residential | Non-Participating | 726091.65 | 4771857.51 | 18 | 22 | 22 | 22 | 18 | 20 | 8 | 0 | 0 | 0 |
| 358 | Residential | Non-Participating | 720901.30 | 4773073.10 | 18 | 27 | 26 | 21 | 17 | 20 | 8 | 0 | 0 | 0 |
| 84 | Residential | Non-Participating | 725714.85 | 4771919.33 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 140 | Residential | Non-Participating | 732052.47 | 4774010.73 | 18 | 22 | 22 | 20 | 17 | 20 | 9 | 0 | 0 | 0 |
| 340 | Residential | Non-Participating | 720799.40 | 4773295.74 | 18 | 25 | 25 | 21 | 17 | 20 | 8 | 0 | 0 | 0 |
| 989 | Residential | Non-Participating | 720267.87 | 4774379.06 | 18 | 25 | 25 | 21 | 17 | 20 | 8 | 0 | 0 | 0 |

**Table 7-4.1b: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 143 | Residential | Non-Participating | 732187.46 | 4774094.18 | 18 | 21 | 21 | 20 | 17 | 20 | 8 | 0 | 0 | 0 |
| 141 | Residential | Non-Participating | 731884.92 | 4774007.98 | 18 | 20 | 20 | 21 | 18 | 20 | 7 | 0 | 0 | 0 |
| 359 | Residential | Non-Participating | 720844.87 | 4773066.72 | 18 | 26 | 26 | 20 | 17 | 20 | 7 | 0 | 0 | 0 |
| 89 | Residential | Non-Participating | 725611.13 | 4771852.51 | 18 | 23 | 23 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 83 | Residential | Non-Participating | 725514.51 | 4771917.72 | 18 | 22 | 22 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 87 | Residential | Non-Participating | 725769.99 | 4771851.99 | 18 | 22 | 23 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 88 | Residential | Non-Participating | 725809.57 | 4771853.60 | 18 | 22 | 22 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 94 | Residential | Non-Participating | 726095.72 | 4771800.34 | 18 | 21 | 21 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 337 | Residential | Non-Participating | 720805.19 | 4773233.34 | 18 | 26 | 26 | 21 | 17 | 19 | 7 | 0 | 0 | 0 |
| 886 | Residential | Non-Participating | 732377.37 | 4777492.44 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 208 | Residential | Non-Participating | 731942.16 | 4777535.65 | 17 | 21 | 21 | 20 | 17 | 19 | 6 | 0 | 0 | 0 |
| 95 | Residential | Non-Participating | 726042.91 | 4771681.08 | 17 | 20 | 21 | 21 | 17 | 19 | 5 | 0 | 0 | 0 |
| 371 | Residential | Non-Participating | 720754.81 | 4773151.13 | 17 | 25 | 25 | 20 | 16 | 19 | 5 | 0 | 0 | 0 |
| 1096 | Residential | Non-Participating | 730614.49 | 4778344.91 | 16 | 20 | 20 | 20 | 17 | 18 | 5 | 0 | 0 | 0 |
| 891 | Residential | Non-Participating | 732651.96 | 4777412.79 | 16 | 23 | 22 | 19 | 15 | 18 | 6 | 0 | 0 | 0 |
| 1097 | Residential | Non-Participating | 730691.19 | 4778401.67 | 16 | 20 | 20 | 20 | 16 | 18 | 4 | 0 | 0 | 0 |
| 787 | Residential | Non-Participating | 732705.58 | 4776616.09 | 16 | 19 | 19 | 19 | 16 | 17 | 4 | 0 | 0 | 0 |
| 1100 | Residential | Non-Participating | 730614.75 | 4778452.56 | 16 | 19 | 20 | 20 | 16 | 17 | 4 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **405** | **Residential** | **Non-Participating** | **726469.31** | **4774847.53** | **40** | **41** | **41** | **37** | **33** | **40** | **32** | **30** | **32** | **11** |
| **1100** | **Residential** | **Non-Participating** | **730614.75** | **4778452.56** | **16** | **19** | **20** | **20** | **16** | **17** | **4** | **0** | **0** | **0** |

**Table 7-4.1c: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 131 | Residential | Participating | 721371.82 | 4774573.46 | 35 | 37 | 36 | 33 | 29 | 35 | 28 | 25 | 27 | 0 |
| 432 | Residential | Participating | 722537.30 | 4775207.26 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 27 | 28 | 0 |
| 477 | Residential | Participating | 730939.96 | 4774668.60 | 29 | 29 | 29 | 28 | 26 | 30 | 21 | 17 | 15 | 0 |
| 580 | Residential | Participating | 729070.89 | 4775527.66 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 28 | 30 | 5 |
| 582 | Residential | Participating | 729130.35 | 4775552.56 | 37 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 28 | 0 |
| 790 | Residential | Participating | 724482.97 | 4774363.66 | 36 | 39 | 39 | 34 | 30 | 36 | 29 | 25 | 25 | 0 |
| 1162 | Residential | Participating | 723409.48 | 4775188.17 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 27 | 29 | 5 |
| Summary of Maximum and Minimum Sound Levels for Participating Residential Receptors | | | | | | | | | | | | | | |
| **580** | **Residential** | **Participating** | **729070.89** | **4775527.66** | **38** | **39** | **39** | **35** | **31** | **38** | **30** | **28** | **30** | **5** |
| **477** | **Residential** | **Participating** | **730939.96** | **4774668.60** | **29** | **29** | **29** | **28** | **26** | **30** | **21** | **17** | **15** | **0** |

**Table 7-4.1d: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 580 | Residential | Participating | 729070.89 | 4775527.66 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 28 | 30 | 5 |
| 432 | Residential | Participating | 722537.30 | 4775207.26 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 27 | 28 | 0 |
| 582 | Residential | Participating | 729130.35 | 4775552.56 | 37 | 38 | 38 | 35 | 31 | 37 | 30 | 27 | 28 | 0 |
| 1162 | Residential | Participating | 723409.48 | 4775188.17 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 27 | 29 | 5 |
| 790 | Residential | Participating | 724482.97 | 4774363.66 | 36 | 39 | 39 | 34 | 30 | 36 | 29 | 25 | 25 | 0 |
| 131 | Residential | Participating | 721371.82 | 4774573.46 | 35 | 37 | 36 | 33 | 29 | 35 | 28 | 25 | 27 | 0 |
| 477 | Residential | Participating | 730939.96 | 4774668.60 | 29 | 29 | 29 | 28 | 26 | 30 | 21 | 17 | 15 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Residential Receptors | | | | | | | | | | | | | | |
| **580** | **Residential** | **Participating** | **729070.89** | **4775527.66** | **38** | **39** | **39** | **35** | **31** | **38** | **30** | **28** | **30** | **5** |
| **477** | **Residential** | **Participating** | **730939.96** | **4774668.60** | **29** | **29** | **29** | **28** | **26** | **30** | **21** | **17** | **15** | **0** |

**Table 7-4.1e: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 3 | Accessory | Non-Participating | 721269.39 | 4775593.72 | 25 | 28 | 28 | 25 | 22 | 27 | 17 | 10 | 0 | 0 |
| 7 | Accessory | Non-Participating | 721453.28 | 4774741.89 | 34 | 36 | 36 | 32 | 28 | 35 | 27 | 24 | 24 | 0 |
| 11 | Accessory | Non-Participating | 721348.09 | 4774855.53 | 32 | 34 | 34 | 30 | 26 | 32 | 24 | 21 | 17 | 0 |
| 18 | Accessory | Non-Participating | 720976.10 | 4775129.79 | 26 | 30 | 30 | 25 | 22 | 27 | 18 | 12 | 0 | 0 |
| 20 | Accessory | Non-Participating | 721315.50 | 4775152.34 | 29 | 33 | 33 | 27 | 25 | 31 | 22 | 17 | 8 | 0 |
| 24 | Accessory | Non-Participating | 721014.61 | 4775158.26 | 26 | 30 | 30 | 25 | 22 | 28 | 19 | 12 | 0 | 0 |
| 25 | Accessory | Non-Participating | 720778.82 | 4775157.13 | 24 | 29 | 29 | 24 | 21 | 26 | 16 | 9 | 0 | 0 |
| 26 | Accessory | Non-Participating | 721463.82 | 4775197.97 | 30 | 33 | 33 | 28 | 26 | 31 | 23 | 18 | 12 | 0 |
| 30 | Accessory | Non-Participating | 721296.49 | 4775304.70 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 4 | 0 |
| 36 | Accessory | Non-Participating | 721443.35 | 4775347.91 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 37 | Accessory | Non-Participating | 721298.50 | 4775353.19 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 3 | 0 |
| 39 | Accessory | Non-Participating | 721440.08 | 4775410.12 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 6 | 0 |
| 40 | Accessory | Non-Participating | 721306.80 | 4775410.63 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 2 | 0 |
| 43 | Accessory | Non-Participating | 721413.15 | 4775451.30 | 29 | 33 | 33 | 27 | 25 | 30 | 22 | 16 | 5 | 0 |
| 44 | Accessory | Non-Participating | 721374.16 | 4775475.95 | 26 | 28 | 28 | 25 | 23 | 27 | 17 | 11 | 0 | 0 |
| 47 | Accessory | Non-Participating | 721398.16 | 4775548.20 | 27 | 30 | 30 | 26 | 24 | 28 | 19 | 14 | 2 | 0 |
| 48 | Accessory | Non-Participating | 729935.68 | 4775831.79 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 56 | Accessory | Non-Participating | 729893.04 | 4775795.19 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 21 | 0 |
| 57 | Accessory | Non-Participating | 729972.28 | 4775793.35 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 59 | Accessory | Non-Participating | 730379.01 | 4775819.54 | 35 | 36 | 36 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 60 | Accessory | Non-Participating | 729959.85 | 4775796.99 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 61 | Accessory | Non-Participating | 729980.23 | 4775804.03 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 62 | Accessory | Non-Participating | 730066.40 | 4775823.90 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 18 | 0 |
| 63 | Accessory | Non-Participating | 729956.49 | 4775822.15 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 64 | Accessory | Non-Participating | 729981.86 | 4775824.75 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 65 | Accessory | Non-Participating | 730375.50 | 4775839.13 | 35 | 37 | 36 | 33 | 30 | 35 | 27 | 24 | 24 | 0 |
| 67 | Accessory | Non-Participating | 729966.31 | 4775833.87 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 68 | Accessory | Non-Participating | 729973.88 | 4775844.40 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 18 | 0 |
| 71 | Accessory | Non-Participating | 730574.02 | 4773977.71 | 22 | 24 | 24 | 23 | 21 | 24 | 12 | 4 | 0 | 0 |
| 77 | Accessory | Non-Participating | 731226.04 | 4773924.41 | 23 | 28 | 27 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 79 | Accessory | Non-Participating | 731084.36 | 4773905.89 | 23 | 27 | 27 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 80 | Accessory | Non-Participating | 730748.42 | 4773894.85 | 22 | 24 | 24 | 23 | 20 | 23 | 12 | 4 | 0 | 0 |
| 86 | Accessory | Non-Participating | 725662.02 | 4771855.59 | 18 | 23 | 23 | 22 | 18 | 20 | 6 | 0 | 0 | 0 |
| 91 | Accessory | Non-Participating | 725621.01 | 4771841.29 | 18 | 23 | 23 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 92 | Accessory | Non-Participating | 725835.99 | 4771836.53 | 18 | 21 | 22 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 93 | Accessory | Non-Participating | 726098.64 | 4771836.29 | 18 | 22 | 22 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 109 | Accessory | Non-Participating | 725538.69 | 4771937.04 | 18 | 23 | 23 | 22 | 18 | 20 | 6 | 0 | 0 | 0 |
| 110 | Accessory | Non-Participating | 725725.78 | 4771932.44 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 111 | Accessory | Non-Participating | 722037.99 | 4775068.13 | 38 | 39 | 38 | 35 | 32 | 38 | 30 | 28 | 30 | 3 |
| 122 | Accessory | Non-Participating | 722404.83 | 4775223.43 | 38 | 38 | 38 | 36 | 32 | 38 | 30 | 28 | 30 | 8 |
| 123 | Accessory | Non-Participating | 722037.04 | 4775031.02 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 32 | 9 |
| 125 | Accessory | Non-Participating | 721078.68 | 4774155.57 | 28 | 33 | 33 | 27 | 23 | 29 | 21 | 15 | 9 | 0 |
| 128 | Accessory | Non-Participating | 721302.43 | 4774267.18 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 22 | 21 | 0 |
| 130 | Accessory | Non-Participating | 721285.84 | 4774507.87 | 33 | 36 | 35 | 31 | 27 | 34 | 26 | 23 | 23 | 0 |
| 134 | Accessory | Non-Participating | 721390.68 | 4774666.83 | 34 | 36 | 36 | 32 | 28 | 35 | 27 | 24 | 24 | 0 |
| 137 | Accessory | Non-Participating | 732065.75 | 4774185.23 | 18 | 20 | 20 | 20 | 18 | 20 | 7 | 0 | 0 | 0 |
| 138 | Accessory | Non-Participating | 731770.33 | 4774166.36 | 21 | 25 | 25 | 22 | 19 | 23 | 13 | 6 | 0 | 0 |
| 139 | Accessory | Non-Participating | 731844.73 | 4774155.77 | 21 | 24 | 24 | 22 | 19 | 23 | 12 | 5 | 0 | 0 |
| 144 | Accessory | Non-Participating | 731740.75 | 4774118.87 | 21 | 25 | 24 | 22 | 19 | 23 | 13 | 5 | 0 | 0 |
| 146 | Accessory | Non-Participating | 731871.61 | 4774163.80 | 21 | 24 | 24 | 22 | 19 | 22 | 12 | 5 | 0 | 0 |
| 148 | Accessory | Non-Participating | 724299.94 | 4777458.61 | 26 | 30 | 30 | 26 | 23 | 27 | 18 | 9 | 0 | 0 |
| 149 | Accessory | Non-Participating | 724185.00 | 4777109.99 | 29 | 33 | 32 | 28 | 25 | 30 | 21 | 16 | 7 | 0 |
| 152 | Accessory | Non-Participating | 724070.64 | 4773332.05 | 23 | 28 | 28 | 25 | 22 | 25 | 13 | 2 | 0 | 0 |
| 154 | Accessory | Non-Participating | 723502.47 | 4773283.90 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 158 | Accessory | Non-Participating | 723457.81 | 4773245.31 | 25 | 31 | 30 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 161 | Accessory | Non-Participating | 724067.38 | 4773657.56 | 29 | 34 | 35 | 28 | 25 | 30 | 21 | 13 | 1 | 0 |
| 164 | Accessory | Non-Participating | 724072.06 | 4773531.72 | 24 | 28 | 28 | 25 | 23 | 26 | 14 | 4 | 0 | 0 |
| 165 | Accessory | Non-Participating | 723805.76 | 4773506.95 | 26 | 32 | 32 | 26 | 23 | 28 | 18 | 11 | 0 | 0 |
| 171 | Accessory | Non-Participating | 729716.08 | 4776934.62 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 172 | Accessory | Non-Participating | 729716.50 | 4776921.55 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 176 | Accessory | Non-Participating | 729792.48 | 4776868.17 | 34 | 36 | 35 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 177 | Accessory | Non-Participating | 729784.19 | 4776852.06 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 185 | Accessory | Non-Participating | 730085.99 | 4777323.51 | 28 | 33 | 33 | 27 | 24 | 29 | 20 | 14 | 3 | 0 |
| 188 | Accessory | Non-Participating | 730186.53 | 4777259.59 | 29 | 34 | 34 | 28 | 25 | 30 | 22 | 16 | 6 | 0 |
| 198 | Accessory | Non-Participating | 729702.44 | 4776987.79 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 15 | 0 |
| 201 | Accessory | Non-Participating | 731567.15 | 4777414.03 | 23 | 29 | 28 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 202 | Accessory | Non-Participating | 731605.97 | 4777413.55 | 22 | 27 | 27 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 203 | Accessory | Non-Participating | 731538.36 | 4777429.80 | 22 | 28 | 28 | 23 | 19 | 24 | 14 | 4 | 0 | 0 |
| 206 | Accessory | Non-Participating | 731994.97 | 4777575.77 | 16 | 19 | 19 | 20 | 16 | 18 | 5 | 0 | 0 | 0 |
| 210 | Accessory | Non-Participating | 726560.20 | 4772388.06 | 27 | 29 | 29 | 26 | 23 | 28 | 19 | 16 | 14 | 0 |
| 214 | Accessory | Non-Participating | 726579.11 | 4773092.73 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 217 | Accessory | Non-Participating | 721229.97 | 4776127.31 | 24 | 29 | 28 | 24 | 21 | 26 | 16 | 9 | 0 | 0 |
| 223 | Accessory | Non-Participating | 721294.29 | 4775836.39 | 25 | 29 | 28 | 25 | 22 | 27 | 17 | 11 | 0 | 0 |
| 224 | Accessory | Non-Participating | 721474.49 | 4775683.27 | 27 | 30 | 30 | 26 | 24 | 29 | 20 | 14 | 4 | 0 |
| 225 | Accessory | Non-Participating | 728394.38 | 4773255.25 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 227 | Accessory | Non-Participating | 728009.35 | 4773247.32 | 24 | 30 | 30 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 228 | Accessory | Non-Participating | 728338.03 | 4773178.70 | 21 | 25 | 25 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 235 | Accessory | Non-Participating | 727966.32 | 4773178.80 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 6 | 0 | 0 |
| 242 | Accessory | Non-Participating | 728191.32 | 4773865.40 | 26 | 30 | 30 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 243 | Accessory | Non-Participating | 728352.48 | 4773828.42 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 244 | Accessory | Non-Participating | 728130.00 | 4773836.41 | 26 | 31 | 31 | 26 | 24 | 28 | 17 | 9 | 0 | 0 |
| 254 | Accessory | Non-Participating | 728498.40 | 4773830.77 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 257 | Accessory | Non-Participating | 728026.63 | 4773808.07 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 9 | 0 | 0 |
| 265 | Accessory | Non-Participating | 728426.57 | 4773805.28 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 274 | Accessory | Non-Participating | 728679.05 | 4773782.34 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 275 | Accessory | Non-Participating | 728501.08 | 4773773.75 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 277 | Accessory | Non-Participating | 728635.25 | 4773777.59 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |

**Table 7-4.1e: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 280 | Accessory | Non-Participating | 728558.52 | 4773768.64 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 283 | Accessory | Non-Participating | 728580.01 | 4773752.92 | 25 | 30 | 30 | 26 | 22 | 27 | 16 | 6 | 0 | 0 |
| 288 | Accessory | Non-Participating | 728369.17 | 4773721.13 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 294 | Accessory | Non-Participating | 728524.42 | 4773712.06 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 5 | 0 | 0 |
| 295 | Accessory | Non-Participating | 728378.13 | 4773685.38 | 25 | 30 | 30 | 26 | 22 | 26 | 16 | 6 | 0 | 0 |
| 297 | Accessory | Non-Participating | 728374.01 | 4773664.03 | 25 | 30 | 30 | 26 | 22 | 26 | 16 | 6 | 0 | 0 |
| 300 | Accessory | Non-Participating | 728386.78 | 4773642.22 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 5 | 0 | 0 |
| 305 | Accessory | Non-Participating | 728290.07 | 4773321.62 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 308 | Accessory | Non-Participating | 728363.89 | 4773257.40 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 311 | Accessory | Non-Participating | 729831.37 | 4774149.90 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 7 | 0 |
| 315 | Accessory | Non-Participating | 729964.60 | 4774214.21 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 7 | 0 |
| 319 | Accessory | Non-Participating | 730069.85 | 4774272.76 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 16 | 7 | 0 |
| 322 | Accessory | Non-Participating | 730178.63 | 4774313.19 | 30 | 34 | 34 | 28 | 25 | 31 | 22 | 16 | 6 | 0 |
| 323 | Accessory | Non-Participating | 730311.71 | 4774324.87 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 4 | 0 |
| 324 | Accessory | Non-Participating | 730130.57 | 4774339.75 | 30 | 34 | 34 | 28 | 25 | 31 | 23 | 17 | 8 | 0 |
| 325 | Accessory | Non-Participating | 730427.32 | 4774390.50 | 29 | 32 | 32 | 27 | 25 | 30 | 21 | 15 | 6 | 0 |
| 329 | Accessory | Non-Participating | 730239.35 | 4774406.89 | 30 | 34 | 34 | 28 | 26 | 32 | 23 | 18 | 8 | 0 |
| 330 | Accessory | Non-Participating | 730347.35 | 4774431.73 | 30 | 34 | 34 | 28 | 26 | 32 | 23 | 18 | 9 | 0 |
| 333 | Accessory | Non-Participating | 721321.17 | 4773187.22 | 22 | 30 | 29 | 23 | 19 | 24 | 13 | 2 | 0 | 0 |
| 336 | Accessory | Non-Participating | 720831.62 | 4773220.06 | 17 | 26 | 26 | 21 | 17 | 19 | 6 | 0 | 0 | 0 |
| 355 | Accessory | Non-Participating | 720864.31 | 4773077.64 | 18 | 26 | 26 | 20 | 17 | 20 | 7 | 0 | 0 | 0 |
| 356 | Accessory | Non-Participating | 721003.46 | 4773026.27 | 20 | 28 | 28 | 21 | 18 | 22 | 10 | 0 | 0 | 0 |
| 360 | Accessory | Non-Participating | 720878.36 | 4773075.46 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 361 | Accessory | Non-Participating | 721370.27 | 4773144.60 | 23 | 30 | 30 | 23 | 20 | 24 | 14 | 4 | 0 | 0 |
| 363 | Accessory | Non-Participating | 721419.92 | 4773148.02 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 367 | Accessory | Non-Participating | 721560.32 | 4773158.50 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 369 | Accessory | Non-Participating | 720766.00 | 4773133.50 | 17 | 25 | 25 | 20 | 16 | 19 | 5 | 0 | 0 | 0 |
| 370 | Accessory | Non-Participating | 721440.75 | 4773165.18 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 378 | Accessory | Non-Participating | 729179.44 | 4774776.74 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 24 | 23 | 0 |
| 379 | Accessory | Non-Participating | 729186.16 | 4774787.86 | 35 | 37 | 36 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 382 | Accessory | Non-Participating | 729304.30 | 4774866.66 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 28 | 30 | 5 |
| 384 | Accessory | Non-Participating | 729298.83 | 4774952.89 | 38 | 39 | 39 | 36 | 32 | 38 | 31 | 28 | 30 | 2 |
| 386 | Accessory | Non-Participating | 729140.75 | 4774133.68 | 28 | 33 | 32 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 388 | Accessory | Non-Participating | 729195.42 | 4774246.39 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 8 | 0 |
| 394 | Accessory | Non-Participating | 729207.99 | 4774380.18 | 31 | 34 | 34 | 29 | 26 | 32 | 23 | 19 | 13 | 0 |
| 396 | Accessory | Non-Participating | 729298.32 | 4774398.12 | 32 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 16 | 0 |
| 397 | Accessory | Non-Participating | 729160.57 | 4774401.95 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 12 | 0 |
| 398 | Accessory | Non-Participating | 732459.07 | 4775528.14 | 21 | 26 | 26 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 402 | Accessory | Non-Participating | 732453.65 | 4775378.60 | 19 | 22 | 22 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 404 | Accessory | Non-Participating | 732448.28 | 4775334.30 | 18 | 20 | 20 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 407 | Accessory | Non-Participating | 725663.45 | 4773636.83 | 30 | 35 | 34 | 29 | 26 | 31 | 22 | 15 | 1 | 0 |
| 409 | Accessory | Non-Participating | 725930.90 | 4773651.83 | 31 | 35 | 35 | 30 | 27 | 32 | 24 | 18 | 11 | 0 |
| 423 | Accessory | Non-Participating | 722933.74 | 4775093.05 | 36 | 38 | 38 | 33 | 30 | 36 | 28 | 25 | 23 | 0 |
| 430 | Accessory | Non-Participating | 722976.50 | 4775220.38 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 433 | Accessory | Non-Participating | 722960.11 | 4775223.55 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 436 | Accessory | Non-Participating | 730076.53 | 4775910.90 | 33 | 36 | 36 | 31 | 29 | 34 | 26 | 22 | 15 | 0 |
| 437 | Accessory | Non-Participating | 729712.50 | 4776697.22 | 37 | 38 | 38 | 34 | 30 | 37 | 29 | 27 | 29 | 7 |
| 440 | Accessory | Non-Participating | 729612.99 | 4776580.73 | 36 | 37 | 37 | 33 | 29 | 36 | 28 | 25 | 27 | 1 |
| 447 | Accessory | Non-Participating | 728290.21 | 4773137.67 | 20 | 23 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 448 | Accessory | Non-Participating | 728281.31 | 4773088.51 | 20 | 23 | 23 | 23 | 20 | 22 | 9 | 0 | 0 | 0 |
| 449 | Accessory | Non-Participating | 728364.95 | 4772504.73 | 20 | 28 | 27 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 450 | Accessory | Non-Participating | 728269.85 | 4772493.90 | 20 | 27 | 26 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 455 | Accessory | Non-Participating | 731369.41 | 4774854.14 | 35 | 35 | 35 | 33 | 29 | 35 | 27 | 25 | 28 | 1 |
| 457 | Accessory | Non-Participating | 731061.29 | 4774198.28 | 22 | 23 | 23 | 24 | 21 | 24 | 13 | 5 | 0 | 0 |
| 461 | Accessory | Non-Participating | 731025.19 | 4774411.39 | 24 | 24 | 24 | 25 | 23 | 26 | 15 | 9 | 1 | 0 |
| 463 | Accessory | Non-Participating | 731012.57 | 4774420.79 | 25 | 24 | 24 | 25 | 23 | 26 | 15 | 10 | 2 | 0 |
| 467 | Accessory | Non-Participating | 731202.90 | 4774588.48 | 26 | 25 | 25 | 26 | 24 | 27 | 17 | 12 | 8 | 0 |
| 470 | Accessory | Non-Participating | 731347.46 | 4774855.54 | 36 | 35 | 35 | 33 | 29 | 35 | 28 | 26 | 28 | 3 |
| 472 | Accessory | Non-Participating | 730693.81 | 4774643.44 | 32 | 36 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 475 | Accessory | Non-Participating | 730826.13 | 4774659.81 | 33 | 36 | 35 | 31 | 27 | 34 | 26 | 22 | 19 | 0 |
| 482 | Accessory | Non-Participating | 731253.03 | 4774745.07 | 29 | 27 | 27 | 28 | 27 | 30 | 20 | 17 | 16 | 0 |
| 483 | Accessory | Non-Participating | 731251.55 | 4774765.45 | 30 | 27 | 27 | 28 | 27 | 31 | 21 | 17 | 18 | 0 |
| 486 | Accessory | Non-Participating | 731359.73 | 4774839.36 | 35 | 35 | 35 | 32 | 29 | 35 | 27 | 25 | 27 | 0 |
| 488 | Accessory | Non-Participating | 725234.31 | 4775532.24 | 36 | 37 | 37 | 34 | 31 | 36 | 28 | 25 | 25 | 0 |
| 489 | Accessory | Non-Participating | 725509.28 | 4775673.40 | 39 | 40 | 41 | 37 | 33 | 39 | 31 | 29 | 32 | 11 |
| 492 | Accessory | Non-Participating | 725153.09 | 4775524.56 | 36 | 36 | 36 | 34 | 31 | 36 | 28 | 25 | 26 | 0 |
| 495 | Accessory | Non-Participating | 725235.84 | 4775499.02 | 36 | 38 | 38 | 34 | 31 | 37 | 29 | 25 | 24 | 0 |
| 506 | Accessory | Non-Participating | 728362.30 | 4776009.96 | 28 | 31 | 33 | 30 | 26 | 29 | 19 | 11 | 0 | 0 |
| 509 | Accessory | Non-Participating | 728493.76 | 4776369.51 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 11 | 0 |
| 511 | Accessory | Non-Participating | 728502.51 | 4776327.20 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 11 | 0 |
| 512 | Accessory | Non-Participating | 731206.74 | 4775796.06 | 34 | 35 | 35 | 32 | 28 | 34 | 27 | 24 | 26 | 0 |
| 513 | Accessory | Non-Participating | 731376.82 | 4775356.50 | 34 | 36 | 35 | 31 | 28 | 34 | 26 | 23 | 22 | 0 |
| 514 | Accessory | Non-Participating | 731356.46 | 4775409.97 | 33 | 35 | 35 | 31 | 27 | 34 | 26 | 22 | 20 | 0 |
| 515 | Accessory | Non-Participating | 731168.36 | 4775777.44 | 33 | 35 | 35 | 31 | 28 | 34 | 26 | 23 | 23 | 0 |
| 519 | Accessory | Non-Participating | 725569.76 | 4776872.88 | 41 | 40 | 41 | 38 | 34 | 39 | 32 | 30 | 36 | 20 |
| 521 | Accessory | Non-Participating | 725574.42 | 4776911.93 | 38 | 38 | 40 | 36 | 32 | 37 | 30 | 28 | 32 | 14 |
| 523 | Accessory | Non-Participating | 725808.59 | 4776944.61 | 33 | 37 | 40 | 35 | 30 | 33 | 26 | 20 | 18 | 0 |
| 524 | Accessory | Non-Participating | 725732.74 | 4776849.55 | 35 | 37 | 40 | 35 | 31 | 35 | 28 | 23 | 24 | 0 |
| 529 | Accessory | Non-Participating | 721903.48 | 4773263.52 | 24 | 31 | 31 | 24 | 21 | 26 | 16 | 7 | 0 | 0 |
| 532 | Accessory | Non-Participating | 722498.05 | 4773124.70 | 23 | 30 | 31 | 24 | 21 | 25 | 15 | 4 | 0 | 0 |
| 534 | Accessory | Non-Participating | 721826.78 | 4773173.84 | 24 | 31 | 30 | 24 | 21 | 26 | 15 | 6 | 0 | 0 |
| 538 | Accessory | Non-Participating | 722281.84 | 4773247.03 | 25 | 32 | 32 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 540 | Accessory | Non-Participating | 729315.91 | 4776113.39 | 31 | 34 | 34 | 30 | 27 | 33 | 24 | 19 | 11 | 0 |
| 541 | Accessory | Non-Participating | 729158.90 | 4776108.92 | 31 | 34 | 34 | 30 | 27 | 32 | 23 | 18 | 11 | 0 |
| 544 | Accessory | Non-Participating | 729240.45 | 4776056.27 | 31 | 34 | 34 | 30 | 27 | 33 | 24 | 18 | 10 | 0 |
| 545 | Accessory | Non-Participating | 729115.25 | 4775737.87 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 23 | 21 | 0 |
| 547 | Accessory | Non-Participating | 729271.75 | 4775753.04 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |

**Table 7-4.1e: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 555 | Accessory | Non-Participating | 729224.25 | 4775920.16 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 558 | Accessory | Non-Participating | 729486.29 | 4776603.61 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 23 | 21 | 0 |
| 559 | Accessory | Non-Participating | 729495.94 | 4776594.68 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 564 | Accessory | Non-Participating | 729402.74 | 4776521.91 | 34 | 36 | 35 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 567 | Accessory | Non-Participating | 729535.27 | 4776657.31 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 568 | Accessory | Non-Participating | 729297.10 | 4776416.65 | 37 | 37 | 37 | 34 | 30 | 36 | 29 | 26 | 29 | 7 |
| 573 | Accessory | Non-Participating | 729253.07 | 4776047.05 | 31 | 35 | 34 | 30 | 27 | 33 | 24 | 19 | 10 | 0 |
| 584 | Accessory | Non-Participating | 729046.02 | 4775614.61 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 27 | 28 | 2 |
| 587 | Accessory | Non-Participating | 729309.24 | 4775681.35 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 590 | Accessory | Non-Participating | 729573.57 | 4775797.71 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 592 | Accessory | Non-Participating | 729139.87 | 4775850.78 | 32 | 35 | 35 | 31 | 28 | 34 | 25 | 21 | 16 | 0 |
| 593 | Accessory | Non-Participating | 729278.83 | 4775036.56 | 39 | 39 | 39 | 36 | 32 | 38 | 31 | 29 | 31 | 6 |
| 594 | Accessory | Non-Participating | 729123.43 | 4775043.55 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 23 | 0 |
| 598 | Accessory | Non-Participating | 729246.50 | 4775198.12 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 31 | 5 |
| 599 | Accessory | Non-Participating | 729241.90 | 4775226.44 | 39 | 40 | 40 | 36 | 32 | 39 | 31 | 29 | 31 | 6 |
| 600 | Accessory | Non-Participating | 729195.83 | 4775298.77 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 31 | 9 |
| 601 | Accessory | Non-Participating | 729244.39 | 4775267.47 | 40 | 40 | 40 | 37 | 33 | 39 | 32 | 29 | 32 | 9 |
| 602 | Accessory | Non-Participating | 729284.06 | 4774993.16 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 28 | 30 | 4 |
| 610 | Accessory | Non-Participating | 729090.33 | 4773880.20 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 617 | Accessory | Non-Participating | 728866.14 | 4773897.20 | 26 | 31 | 31 | 26 | 23 | 27 | 18 | 8 | 0 | 0 |
| 620 | Accessory | Non-Participating | 729579.89 | 4773926.11 | 26 | 31 | 31 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 627 | Accessory | Non-Participating | 729025.97 | 4773987.09 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 632 | Accessory | Non-Participating | 729042.02 | 4774076.35 | 27 | 32 | 32 | 27 | 24 | 29 | 20 | 12 | 0 | 0 |
| 633 | Accessory | Non-Participating | 729293.19 | 4773642.56 | 24 | 29 | 29 | 25 | 21 | 26 | 16 | 6 | 0 | 0 |
| 644 | Accessory | Non-Participating | 728820.92 | 4773645.44 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 645 | Accessory | Non-Participating | 728942.44 | 4773645.67 | 22 | 25 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 673 | Accessory | Non-Participating | 729330.17 | 4773721.55 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 674 | Accessory | Non-Participating | 729337.74 | 4773722.04 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 675 | Accessory | Non-Participating | 728799.88 | 4773702.56 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 677 | Accessory | Non-Participating | 728840.96 | 4773706.12 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 678 | Accessory | Non-Participating | 729300.09 | 4773726.76 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 679 | Accessory | Non-Participating | 729221.69 | 4773724.56 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 680 | Accessory | Non-Participating | 729247.56 | 4773723.14 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 681 | Accessory | Non-Participating | 728920.52 | 4773716.19 | 22 | 25 | 25 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 682 | Accessory | Non-Participating | 728769.23 | 4773713.52 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 684 | Accessory | Non-Participating | 729533.80 | 4773739.61 | 22 | 26 | 25 | 24 | 21 | 24 | 12 | 2 | 0 | 0 |
| 686 | Accessory | Non-Participating | 729145.41 | 4773727.55 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 689 | Accessory | Non-Participating | 729120.78 | 4773731.96 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 690 | Accessory | Non-Participating | 729387.03 | 4773745.53 | 25 | 30 | 30 | 25 | 22 | 26 | 17 | 8 | 0 | 0 |
| 691 | Accessory | Non-Participating | 729334.65 | 4773747.43 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 697 | Accessory | Non-Participating | 729081.55 | 4773756.68 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 8 | 0 | 0 |
| 700 | Accessory | Non-Participating | 729426.17 | 4773780.87 | 25 | 30 | 30 | 25 | 22 | 26 | 17 | 8 | 0 | 0 |
| 703 | Accessory | Non-Participating | 729020.32 | 4773782.21 | 23 | 28 | 28 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 704 | Accessory | Non-Participating | 728961.40 | 4773781.28 | 23 | 27 | 27 | 25 | 22 | 25 | 13 | 2 | 0 | 0 |
| 706 | Accessory | Non-Participating | 729474.04 | 4773808.80 | 25 | 30 | 30 | 25 | 22 | 27 | 17 | 8 | 0 | 0 |
| 708 | Accessory | Non-Participating | 728885.53 | 4773795.48 | 25 | 31 | 30 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 709 | Accessory | Non-Participating | 728841.88 | 4773795.16 | 25 | 30 | 30 | 25 | 22 | 27 | 16 | 7 | 0 | 0 |
| 715 | Accessory | Non-Participating | 729501.74 | 4773829.05 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 719 | Accessory | Non-Participating | 729107.35 | 4773832.24 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 723 | Accessory | Non-Participating | 729567.29 | 4773873.47 | 25 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 727 | Accessory | Non-Participating | 728942.42 | 4773327.58 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 735 | Accessory | Non-Participating | 729044.08 | 4773389.15 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 741 | Accessory | Non-Participating | 728947.57 | 4773436.17 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 742 | Accessory | Non-Participating | 728873.78 | 4773437.00 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 743 | Accessory | Non-Participating | 728904.61 | 4773442.14 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 744 | Accessory | Non-Participating | 729046.04 | 4773445.26 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 746 | Accessory | Non-Participating | 728844.73 | 4773448.64 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 748 | Accessory | Non-Participating | 728943.44 | 4773456.66 | 22 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 749 | Accessory | Non-Participating | 728916.11 | 4773463.27 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 750 | Accessory | Non-Participating | 728953.03 | 4773470.62 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 757 | Accessory | Non-Participating | 729041.75 | 4773500.81 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 760 | Accessory | Non-Participating | 728955.22 | 4773519.14 | 21 | 26 | 26 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 761 | Accessory | Non-Participating | 728900.61 | 4773524.61 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 764 | Accessory | Non-Participating | 728961.25 | 4773541.17 | 21 | 26 | 26 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 775 | Accessory | Non-Participating | 729261.97 | 4773634.87 | 24 | 29 | 29 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 776 | Accessory | Non-Participating | 729179.35 | 4773631.44 | 24 | 29 | 28 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 777 | Accessory | Non-Participating | 729281.88 | 4773638.39 | 24 | 29 | 29 | 24 | 21 | 26 | 15 | 6 | 0 | 0 |
| 779 | Accessory | Non-Participating | 728803.29 | 4773628.33 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 783 | Accessory | Non-Participating | 729352.17 | 4777860.80 | 20 | 22 | 23 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 784 | Accessory | Non-Participating | 729321.90 | 4777828.27 | 20 | 22 | 23 | 24 | 20 | 22 | 10 | 0 | 0 | 0 |
| 785 | Accessory | Non-Participating | 729470.56 | 4777817.80 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 788 | Accessory | Non-Participating | 732731.79 | 4776597.32 | 16 | 19 | 19 | 19 | 16 | 17 | 4 | 0 | 0 | 0 |
| 789 | Accessory | Non-Participating | 724370.39 | 4774323.83 | 34 | 38 | 38 | 33 | 29 | 35 | 27 | 23 | 19 | 0 |
| 794 | Accessory | Non-Participating | 726816.25 | 4777232.87 | 30 | 34 | 39 | 34 | 29 | 31 | 23 | 14 | 2 | 0 |
| 797 | Accessory | Non-Participating | 726422.04 | 4777141.03 | 31 | 35 | 39 | 35 | 30 | 32 | 26 | 17 | 0 | 0 |
| 798 | Accessory | Non-Participating | 726258.38 | 4777104.16 | 31 | 36 | 40 | 35 | 30 | 32 | 25 | 16 | 0 | 0 |
| 799 | Accessory | Non-Participating | 726216.69 | 4777087.12 | 31 | 36 | 40 | 35 | 30 | 32 | 25 | 16 | 0 | 0 |
| 805 | Accessory | Non-Participating | 727879.54 | 4777424.41 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 18 | 16 | 0 |
| 808 | Accessory | Non-Participating | 728253.61 | 4777409.56 | 28 | 26 | 27 | 28 | 26 | 29 | 19 | 15 | 15 | 0 |
| 810 | Accessory | Non-Participating | 728436.31 | 4777412.45 | 29 | 31 | 32 | 29 | 26 | 30 | 21 | 17 | 16 | 0 |
| 814 | Accessory | Non-Participating | 728299.78 | 4777278.89 | 36 | 36 | 36 | 34 | 29 | 35 | 28 | 26 | 28 | 2 |
| 817 | Accessory | Non-Participating | 728454.52 | 4777175.55 | 36 | 37 | 37 | 34 | 29 | 36 | 28 | 26 | 27 | 0 |
| 819 | Accessory | Non-Participating | 728336.83 | 4776821.73 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 821 | Accessory | Non-Participating | 728341.13 | 4777628.37 | 24 | 24 | 25 | 26 | 23 | 26 | 15 | 9 | 3 | 0 |
| 822 | Accessory | Non-Participating | 728342.98 | 4777602.63 | 24 | 24 | 25 | 26 | 23 | 26 | 15 | 10 | 4 | 0 |
| 823 | Accessory | Non-Participating | 728329.35 | 4777598.69 | 24 | 24 | 25 | 26 | 23 | 26 | 15 | 10 | 5 | 0 |
| 826 | Accessory | Non-Participating | 728255.83 | 4777510.68 | 26 | 27 | 28 | 27 | 24 | 27 | 17 | 12 | 10 | 0 |

**Table 7-4.1e: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 827 | Accessory | Non-Participating | 728231.02 | 4777504.73 | 26 | 27 | 28 | 27 | 25 | 28 | 17 | 13 | 10 | 0 |
| 838 | Accessory | Non-Participating | 727891.02 | 4775550.76 | 34 | 37 | 38 | 33 | 29 | 35 | 27 | 22 | 17 | 0 |
| 841 | Accessory | Non-Participating | 726187.36 | 4775578.06 | 37 | 40 | 43 | 38 | 34 | 38 | 31 | 25 | 23 | 0 |
| 846 | Accessory | Non-Participating | 726148.62 | 4775487.71 | 35 | 38 | 39 | 35 | 32 | 36 | 28 | 24 | 21 | 0 |
| 848 | Accessory | Non-Participating | 726539.42 | 4775309.75 | 37 | 40 | 42 | 37 | 33 | 38 | 30 | 26 | 25 | 0 |
| 850 | Accessory | Non-Participating | 726265.35 | 4775585.76 | 37 | 40 | 43 | 39 | 34 | 38 | 31 | 26 | 24 | 0 |
| 863 | Accessory | Non-Participating | 727868.63 | 4773238.92 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 9 | 0 | 0 |
| 865 | Accessory | Non-Participating | 731101.54 | 4777624.50 | 22 | 27 | 27 | 23 | 20 | 24 | 14 | 4 | 0 | 0 |
| 866 | Accessory | Non-Participating | 731097.34 | 4777530.44 | 21 | 24 | 24 | 22 | 19 | 22 | 11 | 2 | 0 | 0 |
| 869 | Accessory | Non-Participating | 730477.16 | 4777473.11 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 873 | Accessory | Non-Participating | 731047.39 | 4777379.17 | 21 | 24 | 24 | 23 | 20 | 23 | 11 | 2 | 0 | 0 |
| 875 | Accessory | Non-Participating | 730592.71 | 4777699.18 | 20 | 25 | 26 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 876 | Accessory | Non-Participating | 730482.60 | 4777612.50 | 21 | 26 | 27 | 24 | 20 | 23 | 11 | 2 | 0 | 0 |
| 878 | Accessory | Non-Participating | 731065.74 | 4777557.16 | 22 | 27 | 27 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 880 | Accessory | Non-Participating | 727638.48 | 4772415.32 | 21 | 26 | 26 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 881 | Accessory | Non-Participating | 727806.39 | 4773125.64 | 24 | 28 | 28 | 25 | 22 | 26 | 16 | 9 | 0 | 0 |
| 885 | Accessory | Non-Participating | 732526.28 | 4777023.04 | 19 | 25 | 25 | 20 | 17 | 20 | 10 | 0 | 0 | 0 |
| 887 | Accessory | Non-Participating | 732353.63 | 4777511.25 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 888 | Accessory | Non-Participating | 732419.14 | 4777520.37 | 17 | 24 | 23 | 19 | 16 | 19 | 7 | 0 | 0 | 0 |
| 889 | Accessory | Non-Participating | 732393.49 | 4777521.10 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 890 | Accessory | Non-Participating | 732369.20 | 4777535.08 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 892 | Accessory | Non-Participating | 732653.11 | 4777362.87 | 17 | 23 | 23 | 19 | 15 | 19 | 7 | 0 | 0 | 0 |
| 893 | Accessory | Non-Participating | 732633.27 | 4777415.86 | 16 | 23 | 22 | 19 | 15 | 18 | 6 | 0 | 0 | 0 |
| 896 | Accessory | Non-Participating | 723947.73 | 4776285.78 | 35 | 37 | 37 | 34 | 30 | 36 | 28 | 25 | 26 | 0 |
| 898 | Accessory | Non-Participating | 723761.01 | 4776314.38 | 36 | 37 | 38 | 34 | 31 | 36 | 29 | 26 | 27 | 0 |
| 899 | Accessory | Non-Participating | 724063.66 | 4776135.44 | 33 | 35 | 35 | 31 | 28 | 34 | 25 | 22 | 20 | 0 |
| 901 | Accessory | Non-Participating | 723951.46 | 4775829.66 | 32 | 35 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 902 | Accessory | Non-Participating | 723922.65 | 4775764.57 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 907 | Accessory | Non-Participating | 729977.31 | 4773915.49 | 22 | 23 | 23 | 24 | 21 | 23 | 11 | 2 | 0 | 0 |
| 910 | Accessory | Non-Participating | 729679.99 | 4773827.97 | 22 | 23 | 24 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 911 | Accessory | Non-Participating | 729779.99 | 4773792.68 | 21 | 23 | 23 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 912 | Accessory | Non-Participating | 730276.80 | 4773687.67 | 21 | 23 | 23 | 23 | 20 | 22 | 11 | 0 | 0 | 0 |
| 922 | Accessory | Non-Participating | 724122.36 | 4774815.77 | 38 | 40 | 39 | 36 | 32 | 38 | 30 | 28 | 30 | 5 |
| 924 | Accessory | Non-Participating | 724006.65 | 4774652.18 | 34 | 37 | 37 | 33 | 29 | 35 | 27 | 23 | 21 | 0 |
| 926 | Accessory | Non-Participating | 723924.96 | 4774503.57 | 37 | 38 | 38 | 35 | 31 | 37 | 29 | 27 | 29 | 4 |
| 927 | Accessory | Non-Participating | 723982.79 | 4774509.60 | 36 | 38 | 38 | 34 | 30 | 36 | 28 | 25 | 26 | 0 |
| 929 | Accessory | Non-Participating | 724127.37 | 4774123.54 | 32 | 36 | 36 | 31 | 28 | 33 | 25 | 20 | 17 | 0 |
| 932 | Accessory | Non-Participating | 724131.04 | 4774075.20 | 32 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 15 | 0 |
| 934 | Accessory | Non-Participating | 724006.47 | 4774710.35 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 936 | Accessory | Non-Participating | 727196.24 | 4772173.59 | 20 | 24 | 24 | 23 | 19 | 22 | 10 | 2 | 0 | 0 |
| 939 | Accessory | Non-Participating | 729573.40 | 4777794.61 | 23 | 28 | 28 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 940 | Accessory | Non-Participating | 729629.19 | 4777756.33 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 941 | Accessory | Non-Participating | 729652.07 | 4777755.03 | 23 | 28 | 28 | 24 | 21 | 24 | 14 | 4 | 0 | 0 |
| 942 | Accessory | Non-Participating | 729830.85 | 4777751.08 | 21 | 25 | 25 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 945 | Accessory | Non-Participating | 729799.53 | 4777809.71 | 21 | 25 | 25 | 23 | 20 | 23 | 12 | 2 | 0 | 0 |
| 953 | Accessory | Non-Participating | 727042.47 | 4775615.66 | 37 | 39 | 42 | 38 | 33 | 37 | 30 | 25 | 26 | 0 |
| 958 | Accessory | Non-Participating | 727601.43 | 4775402.35 | 35 | 37 | 37 | 34 | 30 | 36 | 27 | 24 | 24 | 0 |
| 959 | Accessory | Non-Participating | 727766.32 | 4775693.57 | 31 | 33 | 34 | 32 | 28 | 32 | 24 | 20 | 18 | 0 |
| 960 | Accessory | Non-Participating | 725100.34 | 4773424.43 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 962 | Accessory | Non-Participating | 724334.52 | 4773640.10 | 27 | 33 | 34 | 28 | 25 | 29 | 19 | 11 | 0 | 0 |
| 963 | Accessory | Non-Participating | 724699.66 | 4773654.22 | 27 | 31 | 31 | 27 | 24 | 29 | 19 | 12 | 0 | 0 |
| 964 | Accessory | Non-Participating | 724560.28 | 4773657.65 | 28 | 33 | 33 | 27 | 25 | 30 | 20 | 12 | 0 | 0 |
| 965 | Accessory | Non-Participating | 724391.83 | 4773655.27 | 28 | 33 | 34 | 28 | 25 | 29 | 20 | 12 | 0 | 0 |
| 966 | Accessory | Non-Participating | 724509.11 | 4773663.62 | 28 | 34 | 34 | 28 | 25 | 30 | 20 | 12 | 0 | 0 |
| 969 | Accessory | Non-Participating | 724473.94 | 4773574.77 | 27 | 33 | 33 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 974 | Accessory | Non-Participating | 724923.98 | 4773574.57 | 25 | 28 | 28 | 26 | 24 | 27 | 16 | 8 | 0 | 0 |
| 981 | Accessory | Non-Participating | 724653.96 | 4773640.70 | 27 | 32 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 983 | Accessory | Non-Participating | 720240.22 | 4775109.47 | 17 | 20 | 20 | 20 | 17 | 19 | 6 | 0 | 0 | 0 |
| 985 | Accessory | Non-Participating | 720346.42 | 4775122.95 | 22 | 30 | 30 | 23 | 20 | 24 | 14 | 3 | 0 | 0 |
| 987 | Accessory | Non-Participating | 720513.81 | 4775153.58 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 988 | Accessory | Non-Participating | 720317.90 | 4774351.21 | 21 | 29 | 28 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 990 | Accessory | Non-Participating | 729053.03 | 4777549.17 | 28 | 33 | 34 | 28 | 25 | 30 | 21 | 15 | 8 | 0 |
| 991 | Accessory | Non-Participating | 729037.38 | 4777518.61 | 29 | 34 | 34 | 29 | 25 | 30 | 21 | 16 | 10 | 0 |
| 993 | Accessory | Non-Participating | 728775.41 | 4777578.10 | 24 | 27 | 29 | 27 | 23 | 26 | 15 | 8 | 1 | 0 |
| 995 | Accessory | Non-Participating | 728692.83 | 4777550.95 | 25 | 27 | 30 | 27 | 24 | 26 | 16 | 10 | 4 | 0 |
| 997 | Accessory | Non-Participating | 720527.89 | 4775140.32 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 1000 | Accessory | Non-Participating | 724114.91 | 4776736.82 | 34 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1003 | Accessory | Non-Participating | 731793.93 | 4775077.34 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 16 | 11 | 0 |
| 1011 | Accessory | Non-Participating | 732134.89 | 4775202.77 | 22 | 25 | 25 | 23 | 20 | 24 | 13 | 5 | 0 | 0 |
| 1014 | Accessory | Non-Participating | 732250.12 | 4775350.62 | 22 | 26 | 26 | 22 | 20 | 24 | 14 | 6 | 0 | 0 |
| 1018 | Accessory | Non-Participating | 731417.14 | 4775554.28 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1019 | Accessory | Non-Participating | 731720.59 | 4775939.04 | 27 | 31 | 31 | 26 | 24 | 29 | 19 | 14 | 9 | 0 |
| 1020 | Accessory | Non-Participating | 731689.02 | 4775937.23 | 31 | 34 | 33 | 29 | 25 | 31 | 23 | 20 | 18 | 0 |
| 1023 | Accessory | Non-Participating | 731999.16 | 4775900.68 | 23 | 26 | 26 | 23 | 21 | 25 | 15 | 8 | 0 | 0 |
| 1030 | Accessory | Non-Participating | 731497.04 | 4775697.14 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 19 | 0 |
| 1040 | Accessory | Non-Participating | 724117.85 | 4776926.31 | 31 | 35 | 36 | 31 | 27 | 32 | 24 | 20 | 16 | 0 |
| 1044 | Accessory | Non-Participating | 724116.79 | 4776985.59 | 31 | 34 | 35 | 30 | 26 | 32 | 23 | 19 | 14 | 0 |
| 1045 | Accessory | Non-Participating | 724171.88 | 4777108.76 | 29 | 33 | 34 | 29 | 25 | 30 | 21 | 16 | 8 | 0 |
| 1048 | Accessory | Non-Participating | 726810.19 | 4772203.58 | 24 | 30 | 30 | 25 | 21 | 26 | 16 | 10 | 1 | 0 |
| 1053 | Accessory | Non-Participating | 726763.55 | 4772189.54 | 25 | 30 | 30 | 25 | 21 | 26 | 16 | 10 | 1 | 0 |
| 1054 | Accessory | Non-Participating | 726445.62 | 4771874.83 | 18 | 21 | 21 | 22 | 18 | 20 | 8 | 0 | 0 | 0 |
| 1057 | Accessory | Non-Participating | 724321.15 | 4775389.02 | 38 | 38 | 38 | 36 | 32 | 38 | 30 | 28 | 31 | 7 |
| 1059 | Accessory | Non-Participating | 724363.98 | 4775445.42 | 37 | 38 | 37 | 34 | 31 | 37 | 29 | 26 | 28 | 1 |
| 1062 | Accessory | Non-Participating | 724405.17 | 4775455.38 | 36 | 37 | 37 | 34 | 31 | 37 | 29 | 26 | 28 | 1 |
| 1064 | Accessory | Non-Participating | 724263.32 | 4775456.37 | 36 | 38 | 38 | 34 | 30 | 36 | 28 | 25 | 25 | 0 |
| 1065 | Accessory | Non-Participating | 724251.53 | 4775463.44 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 1066 | Accessory | Non-Participating | 724842.30 | 4775496.12 | 34 | 36 | 37 | 33 | 30 | 35 | 27 | 23 | 21 | 0 |

**Table 7-4.1e: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1068 | Accessory | Non-Participating | 724567.94 | 4775572.44 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 1069 | Accessory | Non-Participating | 724667.31 | 4775575.76 | 33 | 36 | 36 | 32 | 29 | 34 | 26 | 21 | 17 | 0 |
| 1070 | Accessory | Non-Participating | 724588.81 | 4775569.20 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 1075 | Accessory | Non-Participating | 724998.45 | 4775402.22 | 33 | 35 | 35 | 33 | 30 | 34 | 25 | 21 | 19 | 0 |
| 1077 | Accessory | Non-Participating | 724821.23 | 4775168.57 | 39 | 40 | 40 | 36 | 32 | 39 | 31 | 28 | 29 | 4 |
| 1079 | Accessory | Non-Participating | 724307.20 | 4775490.69 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 24 | 0 |
| 1091 | Accessory | Non-Participating | 728257.56 | 4777914.28 | 23 | 26 | 26 | 25 | 22 | 24 | 14 | 8 | 0 | 0 |
| 1092 | Accessory | Non-Participating | 730585.46 | 4777713.59 | 20 | 25 | 26 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 1095 | Accessory | Non-Participating | 730602.41 | 4778307.28 | 17 | 20 | 21 | 21 | 17 | 18 | 5 | 0 | 0 | 0 |
| 1098 | Accessory | Non-Participating | 730734.42 | 4778437.57 | 16 | 20 | 20 | 20 | 16 | 17 | 4 | 0 | 0 | 0 |
| 1099 | Accessory | Non-Participating | 730620.25 | 4778435.33 | 16 | 19 | 20 | 20 | 16 | 18 | 4 | 0 | 0 | 0 |
| 1103 | Accessory | Non-Participating | 731421.86 | 4774773.33 | 28 | 26 | 26 | 27 | 26 | 29 | 19 | 16 | 15 | 0 |
| 1116 | Accessory | Non-Participating | 723965.18 | 4775611.29 | 32 | 35 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1122 | Accessory | Non-Participating | 724025.59 | 4775409.04 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 18 | 0 |
| 1126 | Accessory | Non-Participating | 723955.79 | 4775531.40 | 32 | 35 | 34 | 31 | 28 | 33 | 24 | 19 | 13 | 0 |
| 1127 | Accessory | Non-Participating | 723930.17 | 4775542.86 | 32 | 35 | 35 | 31 | 28 | 33 | 24 | 20 | 14 | 0 |
| 1129 | Accessory | Non-Participating | 723954.89 | 4775581.99 | 32 | 35 | 34 | 31 | 28 | 33 | 24 | 19 | 13 | 0 |
| 1131 | Accessory | Non-Participating | 723719.71 | 4775180.70 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 1132 | Accessory | Non-Participating | 723721.38 | 4775169.65 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 1135 | Accessory | Non-Participating | 724204.95 | 4775473.50 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 1136 | Accessory | Non-Participating | 724106.19 | 4775460.65 | 33 | 36 | 36 | 31 | 29 | 34 | 26 | 21 | 15 | 0 |
| 1137 | Accessory | Non-Participating | 724175.98 | 4775460.68 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 24 | 22 | 0 |
| 1138 | Accessory | Non-Participating | 723747.12 | 4775430.92 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 1139 | Accessory | Non-Participating | 723887.28 | 4775429.84 | 32 | 35 | 35 | 31 | 28 | 34 | 25 | 20 | 15 | 0 |
| 1143 | Accessory | Non-Participating | 724139.65 | 4775433.08 | 35 | 38 | 38 | 33 | 30 | 36 | 27 | 24 | 22 | 0 |
| 1145 | Accessory | Non-Participating | 723910.10 | 4775419.90 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 1152 | Accessory | Non-Participating | 724100.95 | 4775356.75 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 1153 | Accessory | Non-Participating | 723897.38 | 4775347.01 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 1154 | Accessory | Non-Participating | 723987.76 | 4775343.12 | 34 | 38 | 37 | 32 | 29 | 35 | 27 | 23 | 18 | 0 |
| 1155 | Accessory | Non-Participating | 724089.76 | 4775331.56 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 23 | 0 |
| 1157 | Accessory | Non-Participating | 723425.55 | 4775271.22 | 37 | 39 | 39 | 35 | 31 | 37 | 30 | 27 | 27 | 0 |
| 1158 | Accessory | Non-Participating | 723965.95 | 4775285.25 | 34 | 38 | 37 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 1159 | Accessory | Non-Participating | 723990.47 | 4775287.14 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 23 | 20 | 0 |
| 1165 | Accessory | Non-Participating | 723372.96 | 4773236.77 | 25 | 31 | 32 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 1168 | Accessory | Non-Participating | 722600.14 | 4773139.59 | 24 | 30 | 31 | 25 | 21 | 26 | 15 | 5 | 0 | 0 |
| 1171 | Accessory | Non-Participating | 722945.38 | 4773230.07 | 24 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 1173 | Accessory | Non-Participating | 726930.00 | 4777108.39 | 31 | 35 | 39 | 34 | 30 | 32 | 25 | 17 | 9 | 0 |
| 1174 | Accessory | Non-Participating | 726914.14 | 4777104.19 | 31 | 35 | 39 | 34 | 30 | 32 | 25 | 16 | 9 | 0 |
| 1175 | Accessory | Non-Participating | 726910.46 | 4777086.32 | 31 | 35 | 39 | 35 | 30 | 32 | 25 | 17 | 9 | 0 |
| 1177 | Accessory | Non-Participating | 727355.34 | 4777313.86 | 28 | 33 | 37 | 32 | 27 | 29 | 21 | 10 | 0 | 0 |
| 1179 | Accessory | Non-Participating | 727155.94 | 4777298.13 | 28 | 34 | 37 | 32 | 28 | 29 | 21 | 11 | 0 | 0 |
| 1180 | Accessory | Non-Participating | 727150.41 | 4777289.92 | 29 | 34 | 37 | 32 | 28 | 29 | 22 | 11 | 0 | 0 |
| 1183 | Accessory | Non-Participating | 727101.13 | 4777166.61 | 31 | 35 | 39 | 34 | 29 | 32 | 24 | 17 | 13 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Accessory Receptors | | | | | | | | | | | | | | |
| **519** | **Accessory** | **Non-Participating** | **725569.76** | **4776872.88** | **41** | **40** | **41** | **38** | **34** | **39** | **32** | **30** | **36** | **20** |
| **788** | **Accessory** | **Non-Participating** | **732731.79** | **4776597.32** | **16** | **19** | **19** | **19** | **16** | **17** | **4** | **0** | **0** | **0** |

**Table 7-4.1f: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 519 | Accessory | Non-Participating | 725569.76 | 4776872.88 | 41 | 40 | 41 | 38 | 34 | 39 | 32 | 30 | 36 | 20 |
| 601 | Accessory | Non-Participating | 729244.39 | 4775267.47 | 40 | 40 | 40 | 37 | 33 | 39 | 32 | 29 | 32 | 9 |
| 123 | Accessory | Non-Participating | 722037.04 | 4775031.02 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 32 | 9 |
| 489 | Accessory | Non-Participating | 725509.28 | 4775673.40 | 39 | 40 | 41 | 37 | 33 | 39 | 31 | 29 | 32 | 11 |
| 599 | Accessory | Non-Participating | 729241.90 | 4775226.44 | 39 | 40 | 40 | 36 | 32 | 39 | 31 | 29 | 31 | 6 |
| 598 | Accessory | Non-Participating | 729246.50 | 4775198.12 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 31 | 5 |
| 600 | Accessory | Non-Participating | 729195.83 | 4775298.77 | 39 | 40 | 39 | 36 | 32 | 39 | 31 | 29 | 31 | 9 |
| 1077 | Accessory | Non-Participating | 724821.23 | 4775168.57 | 39 | 40 | 40 | 36 | 32 | 39 | 31 | 28 | 29 | 4 |
| 593 | Accessory | Non-Participating | 729278.83 | 4775036.56 | 39 | 39 | 39 | 36 | 32 | 38 | 31 | 29 | 31 | 6 |
| 122 | Accessory | Non-Participating | 722404.83 | 4775223.43 | 38 | 38 | 38 | 36 | 32 | 38 | 30 | 28 | 30 | 8 |
| 521 | Accessory | Non-Participating | 725574.42 | 4776911.93 | 38 | 38 | 40 | 36 | 32 | 37 | 30 | 28 | 32 | 14 |
| 384 | Accessory | Non-Participating | 729298.83 | 4774952.89 | 38 | 39 | 39 | 36 | 32 | 38 | 31 | 28 | 30 | 2 |
| 922 | Accessory | Non-Participating | 724122.36 | 4774815.77 | 38 | 40 | 39 | 36 | 32 | 38 | 30 | 28 | 30 | 5 |
| 1057 | Accessory | Non-Participating | 724321.15 | 4775389.02 | 38 | 38 | 38 | 36 | 32 | 38 | 30 | 28 | 31 | 7 |
| 111 | Accessory | Non-Participating | 722037.99 | 4775068.13 | 38 | 39 | 38 | 35 | 32 | 38 | 30 | 28 | 30 | 3 |
| 382 | Accessory | Non-Participating | 729304.30 | 4774866.66 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 28 | 30 | 5 |
| 602 | Accessory | Non-Participating | 729284.06 | 4774993.16 | 38 | 39 | 39 | 35 | 31 | 38 | 30 | 28 | 30 | 4 |
| 850 | Accessory | Non-Participating | 726265.35 | 4775585.76 | 37 | 40 | 43 | 39 | 34 | 38 | 31 | 26 | 24 | 0 |
| 848 | Accessory | Non-Participating | 726539.42 | 4775309.75 | 37 | 40 | 42 | 37 | 33 | 38 | 30 | 26 | 25 | 0 |
| 926 | Accessory | Non-Participating | 723924.96 | 4774503.57 | 37 | 38 | 38 | 35 | 31 | 37 | 29 | 27 | 29 | 4 |
| 841 | Accessory | Non-Participating | 726187.36 | 4775578.06 | 37 | 40 | 43 | 38 | 34 | 38 | 31 | 25 | 23 | 0 |
| 437 | Accessory | Non-Participating | 729712.50 | 4776697.22 | 37 | 38 | 38 | 34 | 30 | 37 | 29 | 27 | 29 | 7 |
| 1157 | Accessory | Non-Participating | 723425.55 | 4775271.22 | 37 | 39 | 39 | 35 | 31 | 37 | 30 | 27 | 27 | 0 |
| 584 | Accessory | Non-Participating | 729046.02 | 4775614.61 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 27 | 28 | 2 |
| 953 | Accessory | Non-Participating | 727042.47 | 4775615.66 | 37 | 39 | 42 | 38 | 33 | 37 | 30 | 25 | 26 | 0 |
| 1059 | Accessory | Non-Participating | 724363.98 | 4775445.42 | 37 | 38 | 37 | 34 | 31 | 37 | 29 | 26 | 28 | 1 |
| 568 | Accessory | Non-Participating | 729297.10 | 4776416.65 | 37 | 37 | 37 | 34 | 30 | 36 | 29 | 26 | 29 | 7 |
| 1062 | Accessory | Non-Participating | 724405.17 | 4775455.38 | 36 | 37 | 37 | 34 | 31 | 37 | 29 | 26 | 28 | 1 |
| 898 | Accessory | Non-Participating | 723761.01 | 4776314.38 | 36 | 37 | 38 | 34 | 31 | 36 | 29 | 26 | 27 | 0 |
| 495 | Accessory | Non-Participating | 725235.84 | 4775499.02 | 36 | 38 | 38 | 34 | 31 | 37 | 29 | 25 | 24 | 0 |
| 927 | Accessory | Non-Participating | 723982.79 | 4774509.60 | 36 | 38 | 38 | 34 | 30 | 36 | 28 | 25 | 26 | 0 |
| 470 | Accessory | Non-Participating | 731347.46 | 4774855.54 | 36 | 35 | 35 | 33 | 29 | 35 | 28 | 26 | 28 | 3 |
| 1064 | Accessory | Non-Participating | 724263.32 | 4775456.37 | 36 | 38 | 38 | 34 | 30 | 36 | 28 | 25 | 25 | 0 |
| 817 | Accessory | Non-Participating | 728454.52 | 4777175.55 | 36 | 37 | 37 | 34 | 29 | 36 | 28 | 26 | 27 | 0 |
| 423 | Accessory | Non-Participating | 722933.74 | 4775093.05 | 36 | 38 | 38 | 33 | 30 | 36 | 28 | 25 | 23 | 0 |
| 492 | Accessory | Non-Participating | 725153.09 | 4775524.56 | 36 | 36 | 36 | 34 | 31 | 36 | 28 | 25 | 26 | 0 |
| 440 | Accessory | Non-Participating | 729612.99 | 4776580.73 | 36 | 37 | 37 | 33 | 29 | 36 | 28 | 25 | 27 | 1 |
| 814 | Accessory | Non-Participating | 728299.78 | 4777278.89 | 36 | 36 | 36 | 34 | 29 | 35 | 28 | 26 | 28 | 2 |
| 488 | Accessory | Non-Participating | 725234.31 | 4775532.24 | 36 | 37 | 37 | 34 | 31 | 36 | 28 | 25 | 25 | 0 |
| 587 | Accessory | Non-Participating | 729309.24 | 4775681.35 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 896 | Accessory | Non-Participating | 723947.73 | 4776285.78 | 35 | 37 | 37 | 34 | 30 | 36 | 28 | 25 | 26 | 0 |
| 846 | Accessory | Non-Participating | 726148.62 | 4775487.71 | 35 | 38 | 39 | 35 | 32 | 36 | 28 | 24 | 21 | 0 |
| 1065 | Accessory | Non-Participating | 724251.53 | 4775463.44 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 25 | 24 | 0 |
| 1079 | Accessory | Non-Participating | 724307.20 | 4775490.69 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 24 | 0 |
| 594 | Accessory | Non-Participating | 729123.43 | 4775043.55 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 25 | 23 | 0 |
| 455 | Accessory | Non-Participating | 731369.41 | 4774854.14 | 35 | 35 | 35 | 33 | 29 | 35 | 27 | 25 | 28 | 1 |
| 1155 | Accessory | Non-Participating | 724089.76 | 4775331.56 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 23 | 0 |
| 1152 | Accessory | Non-Participating | 724100.95 | 4775356.75 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 430 | Accessory | Non-Participating | 722976.50 | 4775220.38 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 486 | Accessory | Non-Participating | 731359.73 | 4774839.36 | 35 | 35 | 35 | 32 | 29 | 35 | 27 | 25 | 27 | 0 |
| 958 | Accessory | Non-Participating | 727601.43 | 4775402.35 | 35 | 37 | 37 | 34 | 30 | 36 | 27 | 24 | 24 | 0 |
| 934 | Accessory | Non-Participating | 724006.47 | 4774710.35 | 35 | 38 | 38 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 433 | Accessory | Non-Participating | 722960.11 | 4775223.55 | 35 | 37 | 37 | 33 | 30 | 36 | 28 | 24 | 21 | 0 |
| 65 | Accessory | Non-Participating | 730375.50 | 4775839.13 | 35 | 37 | 36 | 33 | 30 | 35 | 27 | 24 | 24 | 0 |
| 1135 | Accessory | Non-Participating | 724204.95 | 4775473.50 | 35 | 38 | 37 | 33 | 30 | 36 | 28 | 24 | 22 | 0 |
| 1137 | Accessory | Non-Participating | 724175.98 | 4775460.68 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 24 | 22 | 0 |
| 1143 | Accessory | Non-Participating | 724139.65 | 4775433.08 | 35 | 38 | 38 | 33 | 30 | 36 | 27 | 24 | 22 | 0 |
| 524 | Accessory | Non-Participating | 725732.74 | 4776849.55 | 35 | 37 | 40 | 35 | 31 | 35 | 28 | 23 | 24 | 0 |
| 59 | Accessory | Non-Participating | 730379.01 | 4775819.54 | 35 | 36 | 36 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 214 | Accessory | Non-Participating | 726579.11 | 4773092.73 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1159 | Accessory | Non-Participating | 723990.47 | 4775287.14 | 35 | 38 | 37 | 33 | 30 | 36 | 27 | 23 | 20 | 0 |
| 379 | Accessory | Non-Participating | 729186.16 | 4774787.86 | 35 | 37 | 36 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 56 | Accessory | Non-Participating | 729893.04 | 4775795.19 | 35 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 21 | 0 |
| 924 | Accessory | Non-Participating | 724006.65 | 4774652.18 | 34 | 37 | 37 | 33 | 29 | 35 | 27 | 23 | 21 | 0 |
| 378 | Accessory | Non-Participating | 729179.44 | 4774776.74 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 24 | 23 | 0 |
| 1000 | Accessory | Non-Participating | 724114.91 | 4776736.82 | 34 | 37 | 37 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1158 | Accessory | Non-Participating | 723965.95 | 4775285.25 | 34 | 38 | 37 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 60 | Accessory | Non-Participating | 729959.85 | 4775796.99 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 57 | Accessory | Non-Participating | 729972.28 | 4775793.35 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 590 | Accessory | Non-Participating | 729573.57 | 4775797.71 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 1154 | Accessory | Non-Participating | 723987.76 | 4775343.12 | 34 | 38 | 37 | 32 | 29 | 35 | 27 | 23 | 18 | 0 |
| 7 | Accessory | Non-Participating | 721453.28 | 4774741.89 | 34 | 36 | 36 | 32 | 28 | 35 | 27 | 24 | 24 | 0 |
| 134 | Accessory | Non-Participating | 721390.68 | 4774666.83 | 34 | 36 | 36 | 32 | 28 | 35 | 27 | 24 | 24 | 0 |
| 512 | Accessory | Non-Participating | 731206.74 | 4775796.06 | 34 | 35 | 35 | 32 | 28 | 34 | 27 | 24 | 26 | 0 |
| 789 | Accessory | Non-Participating | 724370.39 | 4774323.83 | 34 | 38 | 38 | 33 | 29 | 35 | 27 | 23 | 19 | 0 |
| 61 | Accessory | Non-Participating | 729980.23 | 4775804.03 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 1122 | Accessory | Non-Participating | 724025.59 | 4775409.04 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 18 | 0 |
| 547 | Accessory | Non-Participating | 729271.75 | 4775753.04 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 1066 | Accessory | Non-Participating | 724842.30 | 4775496.12 | 34 | 36 | 37 | 33 | 30 | 35 | 27 | 23 | 21 | 0 |
| 63 | Accessory | Non-Participating | 729956.49 | 4775822.15 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 20 | 0 |
| 1138 | Accessory | Non-Participating | 723747.12 | 4775430.92 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 23 | 21 | 0 |
| 48 | Accessory | Non-Participating | 729935.68 | 4775831.79 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 64 | Accessory | Non-Participating | 729981.86 | 4775824.75 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 1068 | Accessory | Non-Participating | 724567.94 | 4775572.44 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 1131 | Accessory | Non-Participating | 723719.71 | 4775180.70 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 62 | Accessory | Non-Participating | 730066.40 | 4775823.90 | 34 | 37 | 36 | 32 | 29 | 35 | 27 | 23 | 18 | 0 |
| 564 | Accessory | Non-Participating | 729402.74 | 4776521.91 | 34 | 36 | 35 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |

**Table 7-4.1f: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 819 | Accessory | Non-Participating | 728336.83 | 4776821.73 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 1132 | Accessory | Non-Participating | 723721.38 | 4775169.65 | 34 | 37 | 37 | 32 | 29 | 35 | 27 | 22 | 17 | 0 |
| 67 | Accessory | Non-Participating | 729966.31 | 4775833.87 | 34 | 36 | 36 | 32 | 29 | 35 | 27 | 23 | 19 | 0 |
| 1070 | Accessory | Non-Participating | 724588.81 | 4775569.20 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 545 | Accessory | Non-Participating | 729115.25 | 4775737.87 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 23 | 21 | 0 |
| 177 | Accessory | Non-Participating | 729784.19 | 4776852.06 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 23 | 0 |
| 567 | Accessory | Non-Participating | 729535.27 | 4776657.31 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 68 | Accessory | Non-Participating | 729973.88 | 4775844.40 | 34 | 36 | 36 | 32 | 29 | 35 | 26 | 22 | 18 | 0 |
| 838 | Accessory | Non-Participating | 727891.02 | 4775550.76 | 34 | 37 | 38 | 33 | 29 | 35 | 27 | 22 | 17 | 0 |
| 513 | Accessory | Non-Participating | 731376.82 | 4775356.50 | 34 | 36 | 35 | 31 | 28 | 34 | 26 | 23 | 22 | 0 |
| 176 | Accessory | Non-Participating | 729792.48 | 4776868.17 | 34 | 36 | 35 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 559 | Accessory | Non-Participating | 729495.94 | 4776594.68 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 130 | Accessory | Non-Participating | 721285.84 | 4774507.87 | 33 | 36 | 35 | 31 | 27 | 34 | 26 | 23 | 23 | 0 |
| 558 | Accessory | Non-Participating | 729486.29 | 4776603.61 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 23 | 21 | 0 |
| 515 | Accessory | Non-Participating | 731168.36 | 4775777.44 | 33 | 35 | 35 | 31 | 28 | 34 | 26 | 23 | 23 | 0 |
| 436 | Accessory | Non-Participating | 730076.53 | 4775910.90 | 33 | 36 | 36 | 31 | 29 | 34 | 26 | 22 | 15 | 0 |
| 1069 | Accessory | Non-Participating | 724667.31 | 4775575.76 | 33 | 36 | 36 | 32 | 29 | 34 | 26 | 21 | 17 | 0 |
| 1136 | Accessory | Non-Participating | 724106.19 | 4775460.65 | 33 | 36 | 36 | 31 | 29 | 34 | 26 | 21 | 15 | 0 |
| 1075 | Accessory | Non-Participating | 724998.45 | 4775402.22 | 33 | 35 | 35 | 33 | 30 | 34 | 25 | 21 | 19 | 0 |
| 475 | Accessory | Non-Participating | 730826.13 | 4774659.81 | 33 | 36 | 35 | 31 | 27 | 34 | 26 | 22 | 19 | 0 |
| 514 | Accessory | Non-Participating | 731356.46 | 4775409.97 | 33 | 35 | 35 | 31 | 27 | 34 | 26 | 22 | 20 | 0 |
| 523 | Accessory | Non-Participating | 725808.59 | 4776944.61 | 33 | 37 | 40 | 35 | 30 | 33 | 26 | 20 | 18 | 0 |
| 899 | Accessory | Non-Participating | 724063.66 | 4776135.44 | 33 | 35 | 35 | 31 | 28 | 34 | 25 | 22 | 20 | 0 |
| 472 | Accessory | Non-Participating | 730693.81 | 4774643.44 | 32 | 36 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 592 | Accessory | Non-Participating | 729139.87 | 4775850.78 | 32 | 35 | 35 | 31 | 28 | 34 | 25 | 21 | 16 | 0 |
| 128 | Accessory | Non-Participating | 721302.43 | 4774267.18 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 22 | 21 | 0 |
| 1139 | Accessory | Non-Participating | 723887.28 | 4775429.84 | 32 | 35 | 35 | 31 | 28 | 34 | 25 | 20 | 15 | 0 |
| 929 | Accessory | Non-Participating | 724127.37 | 4774123.54 | 32 | 36 | 36 | 31 | 28 | 33 | 25 | 20 | 17 | 0 |
| 1145 | Accessory | Non-Participating | 723910.10 | 4775419.90 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 555 | Accessory | Non-Participating | 729224.25 | 4775920.16 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 1153 | Accessory | Non-Participating | 723897.38 | 4775347.01 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 14 | 0 |
| 172 | Accessory | Non-Participating | 729716.50 | 4776921.55 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 1127 | Accessory | Non-Participating | 723930.17 | 4775542.86 | 32 | 35 | 35 | 31 | 28 | 33 | 24 | 20 | 14 | 0 |
| 902 | Accessory | Non-Participating | 723922.65 | 4775764.57 | 32 | 35 | 35 | 31 | 28 | 33 | 25 | 20 | 13 | 0 |
| 171 | Accessory | Non-Participating | 729716.08 | 4776934.62 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 1129 | Accessory | Non-Participating | 723954.89 | 4775581.99 | 32 | 35 | 34 | 31 | 28 | 33 | 24 | 19 | 13 | 0 |
| 1126 | Accessory | Non-Participating | 723955.79 | 4775531.40 | 32 | 35 | 34 | 31 | 28 | 33 | 24 | 19 | 13 | 0 |
| 932 | Accessory | Non-Participating | 724131.04 | 4774075.20 | 32 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 15 | 0 |
| 901 | Accessory | Non-Participating | 723951.46 | 4775829.66 | 32 | 35 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 1116 | Accessory | Non-Participating | 723965.18 | 4775611.29 | 32 | 35 | 34 | 30 | 28 | 33 | 24 | 19 | 12 | 0 |
| 396 | Accessory | Non-Participating | 729298.32 | 4774398.12 | 32 | 35 | 35 | 30 | 27 | 33 | 24 | 20 | 16 | 0 |
| 11 | Accessory | Non-Participating | 721348.09 | 4774855.53 | 32 | 34 | 34 | 30 | 26 | 32 | 24 | 21 | 17 | 0 |
| 959 | Accessory | Non-Participating | 727766.32 | 4775693.57 | 31 | 33 | 34 | 32 | 28 | 32 | 24 | 20 | 18 | 0 |
| 1030 | Accessory | Non-Participating | 731497.04 | 4775697.14 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 19 | 0 |
| 1040 | Accessory | Non-Participating | 724117.85 | 4776926.31 | 31 | 35 | 36 | 31 | 27 | 32 | 24 | 20 | 16 | 0 |
| 799 | Accessory | Non-Participating | 726216.69 | 4777087.12 | 31 | 36 | 40 | 35 | 30 | 32 | 25 | 16 | 0 | 0 |
| 1175 | Accessory | Non-Participating | 726910.46 | 4777086.32 | 31 | 35 | 39 | 35 | 30 | 32 | 25 | 17 | 9 | 0 |
| 798 | Accessory | Non-Participating | 726258.38 | 4777104.16 | 31 | 36 | 40 | 35 | 30 | 32 | 25 | 16 | 0 | 0 |
| 573 | Accessory | Non-Participating | 729253.07 | 4776047.05 | 31 | 35 | 34 | 30 | 27 | 33 | 24 | 19 | 10 | 0 |
| 540 | Accessory | Non-Participating | 729315.91 | 4776113.39 | 31 | 34 | 34 | 30 | 27 | 33 | 24 | 19 | 11 | 0 |
| 1018 | Accessory | Non-Participating | 731417.14 | 4775554.28 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 20 | 16 | 0 |
| 1173 | Accessory | Non-Participating | 726930.00 | 4777108.39 | 31 | 35 | 39 | 34 | 30 | 32 | 25 | 17 | 9 | 0 |
| 797 | Accessory | Non-Participating | 726422.04 | 4777141.03 | 31 | 35 | 39 | 35 | 30 | 32 | 26 | 17 | 0 | 0 |
| 544 | Accessory | Non-Participating | 729240.45 | 4776056.27 | 31 | 34 | 34 | 30 | 27 | 33 | 24 | 18 | 10 | 0 |
| 1174 | Accessory | Non-Participating | 726914.14 | 4777104.19 | 31 | 35 | 39 | 34 | 30 | 32 | 25 | 16 | 9 | 0 |
| 198 | Accessory | Non-Participating | 729702.44 | 4776987.79 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 15 | 0 |
| 541 | Accessory | Non-Participating | 729158.90 | 4776108.92 | 31 | 34 | 34 | 30 | 27 | 32 | 23 | 18 | 11 | 0 |
| 1183 | Accessory | Non-Participating | 727101.13 | 4777166.61 | 31 | 35 | 39 | 34 | 29 | 32 | 24 | 17 | 13 | 0 |
| 409 | Accessory | Non-Participating | 725930.90 | 4773651.83 | 31 | 35 | 35 | 30 | 27 | 32 | 24 | 18 | 11 | 0 |
| 394 | Accessory | Non-Participating | 729207.99 | 4774380.18 | 31 | 34 | 34 | 29 | 26 | 32 | 23 | 19 | 13 | 0 |
| 1020 | Accessory | Non-Participating | 731689.02 | 4775937.23 | 31 | 34 | 33 | 29 | 25 | 31 | 23 | 20 | 18 | 0 |
| 1044 | Accessory | Non-Participating | 724116.79 | 4776985.59 | 31 | 34 | 35 | 30 | 26 | 32 | 23 | 19 | 14 | 0 |
| 397 | Accessory | Non-Participating | 729160.57 | 4774401.95 | 30 | 34 | 34 | 29 | 26 | 32 | 23 | 18 | 12 | 0 |
| 330 | Accessory | Non-Participating | 730347.35 | 4774431.73 | 30 | 34 | 34 | 28 | 26 | 32 | 23 | 18 | 9 | 0 |
| 329 | Accessory | Non-Participating | 730239.35 | 4774406.89 | 30 | 34 | 34 | 28 | 26 | 32 | 23 | 18 | 8 | 0 |
| 26 | Accessory | Non-Participating | 721463.82 | 4775197.97 | 30 | 33 | 33 | 28 | 26 | 31 | 23 | 18 | 12 | 0 |
| 324 | Accessory | Non-Participating | 730130.57 | 4774339.75 | 30 | 34 | 34 | 28 | 25 | 31 | 23 | 17 | 8 | 0 |
| 794 | Accessory | Non-Participating | 726816.25 | 4777232.87 | 30 | 34 | 39 | 34 | 29 | 31 | 23 | 14 | 2 | 0 |
| 509 | Accessory | Non-Participating | 728493.76 | 4776369.51 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 11 | 0 |
| 407 | Accessory | Non-Participating | 725663.45 | 4773636.83 | 30 | 35 | 34 | 29 | 26 | 31 | 22 | 15 | 1 | 0 |
| 805 | Accessory | Non-Participating | 727879.54 | 4777424.41 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 18 | 16 | 0 |
| 511 | Accessory | Non-Participating | 728502.51 | 4776327.20 | 30 | 33 | 33 | 29 | 26 | 31 | 22 | 17 | 11 | 0 |
| 36 | Accessory | Non-Participating | 721443.35 | 4775347.91 | 30 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 483 | Accessory | Non-Participating | 731251.55 | 4774765.45 | 30 | 27 | 27 | 28 | 27 | 31 | 21 | 17 | 18 | 0 |
| 322 | Accessory | Non-Participating | 730178.63 | 4774313.19 | 30 | 34 | 34 | 28 | 25 | 31 | 22 | 16 | 6 | 0 |
| 319 | Accessory | Non-Participating | 730069.85 | 4774272.76 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 16 | 7 | 0 |
| 39 | Accessory | Non-Participating | 721440.08 | 4775410.12 | 29 | 33 | 33 | 28 | 25 | 31 | 22 | 17 | 6 | 0 |
| 20 | Accessory | Non-Participating | 721315.50 | 4775152.34 | 29 | 33 | 33 | 27 | 25 | 31 | 22 | 17 | 8 | 0 |
| 388 | Accessory | Non-Participating | 729195.42 | 4774246.39 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 8 | 0 |
| 810 | Accessory | Non-Participating | 728436.31 | 4777412.45 | 29 | 31 | 32 | 29 | 26 | 30 | 21 | 17 | 16 | 0 |
| 315 | Accessory | Non-Participating | 729964.60 | 4774214.21 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 7 | 0 |
| 311 | Accessory | Non-Participating | 729831.37 | 4774149.90 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 16 | 7 | 0 |
| 482 | Accessory | Non-Participating | 731253.03 | 4774745.07 | 29 | 27 | 27 | 28 | 27 | 30 | 20 | 17 | 16 | 0 |
| 188 | Accessory | Non-Participating | 730186.53 | 4777259.59 | 29 | 34 | 34 | 28 | 25 | 30 | 22 | 16 | 6 | 0 |
| 43 | Accessory | Non-Participating | 721413.15 | 4775451.30 | 29 | 33 | 33 | 27 | 25 | 30 | 22 | 16 | 5 | 0 |
| 1045 | Accessory | Non-Participating | 724171.88 | 4777108.76 | 29 | 33 | 34 | 29 | 25 | 30 | 21 | 16 | 8 | 0 |
| 149 | Accessory | Non-Participating | 724185.00 | 4777109.99 | 29 | 33 | 32 | 28 | 25 | 30 | 21 | 16 | 7 | 0 |

**Table 7-4.1f: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 991 | Accessory | Non-Participating | 729037.38 | 4777518.61 | 29 | 34 | 34 | 29 | 25 | 30 | 21 | 16 | 10 | 0 |
| 161 | Accessory | Non-Participating | 724067.38 | 4773657.56 | 29 | 34 | 35 | 28 | 25 | 30 | 21 | 13 | 1 | 0 |
| 325 | Accessory | Non-Participating | 730427.32 | 4774390.50 | 29 | 32 | 32 | 27 | 25 | 30 | 21 | 15 | 6 | 0 |
| 1180 | Accessory | Non-Participating | 727150.41 | 4777289.92 | 29 | 34 | 37 | 32 | 28 | 29 | 22 | 11 | 0 | 0 |
| 1179 | Accessory | Non-Participating | 727155.94 | 4777298.13 | 28 | 34 | 37 | 32 | 28 | 29 | 21 | 11 | 0 | 0 |
| 30 | Accessory | Non-Participating | 721296.49 | 4775304.70 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 4 | 0 |
| 1003 | Accessory | Non-Participating | 731793.93 | 4775077.34 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 16 | 11 | 0 |
| 990 | Accessory | Non-Participating | 729053.03 | 4777549.17 | 28 | 33 | 34 | 28 | 25 | 30 | 21 | 15 | 8 | 0 |
| 37 | Accessory | Non-Participating | 721298.50 | 4775353.19 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 3 | 0 |
| 323 | Accessory | Non-Participating | 730311.71 | 4774324.87 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 4 | 0 |
| 966 | Accessory | Non-Participating | 724509.11 | 4773663.62 | 28 | 34 | 34 | 28 | 25 | 30 | 20 | 12 | 0 | 0 |
| 40 | Accessory | Non-Participating | 721306.80 | 4775410.63 | 28 | 32 | 32 | 27 | 24 | 30 | 21 | 15 | 2 | 0 |
| 1103 | Accessory | Non-Participating | 731421.86 | 4774773.33 | 28 | 26 | 26 | 27 | 26 | 29 | 19 | 16 | 15 | 0 |
| 964 | Accessory | Non-Participating | 724560.28 | 4773657.65 | 28 | 33 | 33 | 27 | 25 | 30 | 20 | 12 | 0 | 0 |
| 125 | Accessory | Non-Participating | 721078.68 | 4774155.57 | 28 | 33 | 33 | 27 | 23 | 29 | 21 | 15 | 9 | 0 |
| 386 | Accessory | Non-Participating | 729140.75 | 4774133.68 | 28 | 33 | 32 | 27 | 24 | 29 | 20 | 14 | 2 | 0 |
| 1177 | Accessory | Non-Participating | 727355.34 | 4777313.86 | 28 | 33 | 37 | 32 | 27 | 29 | 21 | 10 | 0 | 0 |
| 185 | Accessory | Non-Participating | 730085.99 | 4777323.51 | 28 | 33 | 33 | 27 | 24 | 29 | 20 | 14 | 3 | 0 |
| 965 | Accessory | Non-Participating | 724391.83 | 4773655.27 | 28 | 33 | 34 | 28 | 25 | 29 | 20 | 12 | 0 | 0 |
| 808 | Accessory | Non-Participating | 728253.61 | 4777409.56 | 28 | 26 | 27 | 28 | 26 | 29 | 19 | 15 | 15 | 0 |
| 506 | Accessory | Non-Participating | 728362.30 | 4776009.96 | 28 | 31 | 33 | 30 | 26 | 29 | 19 | 11 | 0 | 0 |
| 1019 | Accessory | Non-Participating | 731720.59 | 4775939.04 | 27 | 31 | 31 | 26 | 24 | 29 | 19 | 14 | 9 | 0 |
| 224 | Accessory | Non-Participating | 721474.49 | 4775683.27 | 27 | 30 | 30 | 26 | 24 | 29 | 20 | 14 | 4 | 0 |
| 962 | Accessory | Non-Participating | 724334.52 | 4773640.10 | 27 | 33 | 34 | 28 | 25 | 29 | 19 | 11 | 0 | 0 |
| 981 | Accessory | Non-Participating | 724653.96 | 4773640.70 | 27 | 32 | 32 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 632 | Accessory | Non-Participating | 729042.02 | 4774076.35 | 27 | 32 | 32 | 27 | 24 | 29 | 20 | 12 | 0 | 0 |
| 963 | Accessory | Non-Participating | 724699.66 | 4773654.22 | 27 | 31 | 31 | 27 | 24 | 29 | 19 | 12 | 0 | 0 |
| 969 | Accessory | Non-Participating | 724473.94 | 4773574.77 | 27 | 33 | 33 | 27 | 24 | 29 | 19 | 11 | 0 | 0 |
| 47 | Accessory | Non-Participating | 721398.16 | 4775548.20 | 27 | 30 | 30 | 26 | 24 | 28 | 19 | 14 | 2 | 0 |
| 210 | Accessory | Non-Participating | 726560.20 | 4772388.06 | 27 | 29 | 29 | 26 | 23 | 28 | 19 | 16 | 14 | 0 |
| 627 | Accessory | Non-Participating | 729025.97 | 4773987.09 | 27 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 165 | Accessory | Non-Participating | 723805.76 | 4773506.95 | 26 | 32 | 32 | 26 | 23 | 28 | 18 | 11 | 0 | 0 |
| 869 | Accessory | Non-Participating | 730477.16 | 4777473.11 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 620 | Accessory | Non-Participating | 729579.89 | 4773926.11 | 26 | 31 | 31 | 26 | 23 | 28 | 19 | 12 | 0 | 0 |
| 827 | Accessory | Non-Participating | 728231.02 | 4777504.73 | 26 | 27 | 28 | 27 | 25 | 28 | 17 | 13 | 10 | 0 |
| 24 | Accessory | Non-Participating | 721014.61 | 4775158.26 | 26 | 30 | 30 | 25 | 22 | 28 | 19 | 12 | 0 | 0 |
| 826 | Accessory | Non-Participating | 728255.83 | 4777510.68 | 26 | 27 | 28 | 27 | 24 | 27 | 17 | 12 | 10 | 0 |
| 610 | Accessory | Non-Participating | 729090.33 | 4773880.20 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 257 | Accessory | Non-Participating | 728026.63 | 4773808.07 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 9 | 0 | 0 |
| 18 | Accessory | Non-Participating | 720976.10 | 4775129.79 | 26 | 30 | 30 | 25 | 22 | 27 | 18 | 12 | 0 | 0 |
| 467 | Accessory | Non-Participating | 731202.90 | 4774588.48 | 26 | 25 | 25 | 26 | 24 | 27 | 17 | 12 | 8 | 0 |
| 244 | Accessory | Non-Participating | 728130.00 | 4773836.41 | 26 | 31 | 31 | 26 | 24 | 28 | 17 | 9 | 0 | 0 |
| 719 | Accessory | Non-Participating | 729107.35 | 4773832.24 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 617 | Accessory | Non-Participating | 728866.14 | 4773897.20 | 26 | 31 | 31 | 26 | 23 | 27 | 18 | 8 | 0 | 0 |
| 44 | Accessory | Non-Participating | 721374.16 | 4775475.95 | 26 | 28 | 28 | 25 | 23 | 27 | 17 | 11 | 0 | 0 |
| 242 | Accessory | Non-Participating | 728191.32 | 4773865.40 | 26 | 30 | 30 | 26 | 23 | 27 | 17 | 8 | 0 | 0 |
| 148 | Accessory | Non-Participating | 724299.94 | 4777458.61 | 26 | 30 | 30 | 26 | 23 | 27 | 18 | 9 | 0 | 0 |
| 960 | Accessory | Non-Participating | 725100.34 | 4773424.43 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 254 | Accessory | Non-Participating | 728498.40 | 4773830.77 | 25 | 31 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 265 | Accessory | Non-Participating | 728426.57 | 4773805.28 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 697 | Accessory | Non-Participating | 729081.55 | 4773756.68 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 8 | 0 | 0 |
| 223 | Accessory | Non-Participating | 721294.29 | 4775836.39 | 25 | 29 | 28 | 25 | 22 | 27 | 17 | 11 | 0 | 0 |
| 243 | Accessory | Non-Participating | 728352.48 | 4773828.42 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 7 | 0 | 0 |
| 708 | Accessory | Non-Participating | 728885.53 | 4773795.48 | 25 | 31 | 30 | 26 | 22 | 27 | 17 | 7 | 0 | 0 |
| 974 | Accessory | Non-Participating | 724923.98 | 4773574.57 | 25 | 28 | 28 | 26 | 24 | 27 | 16 | 8 | 0 | 0 |
| 275 | Accessory | Non-Participating | 728501.08 | 4773773.75 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 274 | Accessory | Non-Participating | 728679.05 | 4773782.34 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 3 | Accessory | Non-Participating | 721269.39 | 4775593.72 | 25 | 28 | 28 | 25 | 22 | 27 | 17 | 10 | 0 | 0 |
| 277 | Accessory | Non-Participating | 728635.25 | 4773777.59 | 25 | 30 | 30 | 26 | 23 | 27 | 17 | 6 | 0 | 0 |
| 154 | Accessory | Non-Participating | 723502.47 | 4773283.90 | 25 | 31 | 31 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 280 | Accessory | Non-Participating | 728558.52 | 4773768.64 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 863 | Accessory | Non-Participating | 727868.63 | 4773238.92 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 9 | 0 | 0 |
| 995 | Accessory | Non-Participating | 728692.83 | 4777550.95 | 25 | 27 | 30 | 27 | 24 | 26 | 16 | 10 | 4 | 0 |
| 706 | Accessory | Non-Participating | 729474.04 | 4773808.80 | 25 | 30 | 30 | 25 | 22 | 27 | 17 | 8 | 0 | 0 |
| 288 | Accessory | Non-Participating | 728369.17 | 4773721.13 | 25 | 30 | 30 | 26 | 23 | 27 | 16 | 6 | 0 | 0 |
| 709 | Accessory | Non-Participating | 728841.88 | 4773795.16 | 25 | 30 | 30 | 25 | 22 | 27 | 16 | 7 | 0 | 0 |
| 690 | Accessory | Non-Participating | 729387.03 | 4773745.53 | 25 | 30 | 30 | 25 | 22 | 26 | 17 | 8 | 0 | 0 |
| 538 | Accessory | Non-Participating | 722281.84 | 4773247.03 | 25 | 32 | 32 | 25 | 22 | 27 | 17 | 7 | 0 | 0 |
| 700 | Accessory | Non-Participating | 729426.17 | 4773780.87 | 25 | 30 | 30 | 25 | 22 | 26 | 17 | 8 | 0 | 0 |
| 283 | Accessory | Non-Participating | 728580.01 | 4773752.92 | 25 | 30 | 30 | 26 | 22 | 27 | 16 | 6 | 0 | 0 |
| 715 | Accessory | Non-Participating | 729501.74 | 4773829.05 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 1165 | Accessory | Non-Participating | 723372.96 | 4773236.77 | 25 | 31 | 32 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 723 | Accessory | Non-Participating | 729567.29 | 4773873.47 | 25 | 29 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 158 | Accessory | Non-Participating | 723457.81 | 4773245.31 | 25 | 31 | 30 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 295 | Accessory | Non-Participating | 728378.13 | 4773685.38 | 25 | 30 | 30 | 26 | 22 | 26 | 16 | 6 | 0 | 0 |
| 680 | Accessory | Non-Participating | 729247.56 | 4773723.14 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 297 | Accessory | Non-Participating | 728374.01 | 4773664.03 | 25 | 30 | 30 | 26 | 22 | 26 | 16 | 6 | 0 | 0 |
| 678 | Accessory | Non-Participating | 729300.09 | 4773726.76 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 673 | Accessory | Non-Participating | 729330.17 | 4773721.55 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 674 | Accessory | Non-Participating | 729337.74 | 4773722.04 | 25 | 30 | 30 | 25 | 22 | 26 | 16 | 8 | 0 | 0 |
| 1053 | Accessory | Non-Participating | 726763.55 | 4772189.54 | 25 | 30 | 30 | 25 | 21 | 26 | 16 | 10 | 1 | 0 |
| 679 | Accessory | Non-Participating | 729221.69 | 4773724.56 | 25 | 30 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 463 | Accessory | Non-Participating | 731012.57 | 4774420.79 | 25 | 24 | 24 | 25 | 23 | 26 | 15 | 10 | 2 | 0 |
| 1048 | Accessory | Non-Participating | 726810.19 | 4772203.58 | 24 | 30 | 30 | 25 | 21 | 26 | 16 | 10 | 1 | 0 |
| 529 | Accessory | Non-Participating | 721903.48 | 4773263.52 | 24 | 31 | 31 | 24 | 21 | 26 | 16 | 7 | 0 | 0 |
| 881 | Accessory | Non-Participating | 727806.39 | 4773125.64 | 24 | 28 | 28 | 25 | 22 | 26 | 16 | 9 | 0 | 0 |
| 227 | Accessory | Non-Participating | 728009.35 | 4773247.32 | 24 | 30 | 30 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |

**Table 7-4.1f: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 823 | Accessory | Non-Participating | 728329.35 | 4777598.69 | 24 | 24 | 25 | 26 | 23 | 26 | 15 | 10 | 5 | 0 |
| 691 | Accessory | Non-Participating | 729334.65 | 4773747.43 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 461 | Accessory | Non-Participating | 731025.19 | 4774411.39 | 24 | 24 | 24 | 25 | 23 | 26 | 15 | 9 | 1 | 0 |
| 300 | Accessory | Non-Participating | 728386.78 | 4773642.22 | 24 | 30 | 29 | 25 | 22 | 26 | 16 | 5 | 0 | 0 |
| 822 | Accessory | Non-Participating | 728342.98 | 4777602.63 | 24 | 24 | 25 | 26 | 23 | 26 | 15 | 10 | 4 | 0 |
| 25 | Accessory | Non-Participating | 720778.82 | 4775157.13 | 24 | 29 | 29 | 24 | 21 | 26 | 16 | 9 | 0 | 0 |
| 1171 | Accessory | Non-Participating | 722945.38 | 4773230.07 | 24 | 31 | 31 | 25 | 22 | 26 | 16 | 6 | 0 | 0 |
| 217 | Accessory | Non-Participating | 721229.97 | 4776127.31 | 24 | 29 | 28 | 24 | 21 | 26 | 16 | 9 | 0 | 0 |
| 689 | Accessory | Non-Participating | 729120.78 | 4773731.96 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 686 | Accessory | Non-Participating | 729145.41 | 4773727.55 | 24 | 29 | 29 | 25 | 22 | 26 | 16 | 7 | 0 | 0 |
| 294 | Accessory | Non-Participating | 728524.42 | 4773712.06 | 24 | 29 | 29 | 25 | 22 | 26 | 15 | 5 | 0 | 0 |
| 993 | Accessory | Non-Participating | 728775.41 | 4777578.10 | 24 | 27 | 29 | 27 | 23 | 26 | 15 | 8 | 1 | 0 |
| 821 | Accessory | Non-Participating | 728341.13 | 4777628.37 | 24 | 24 | 25 | 26 | 23 | 26 | 15 | 9 | 3 | 0 |
| 633 | Accessory | Non-Participating | 729293.19 | 4773642.56 | 24 | 29 | 29 | 25 | 21 | 26 | 16 | 6 | 0 | 0 |
| 777 | Accessory | Non-Participating | 729281.88 | 4773638.39 | 24 | 29 | 29 | 24 | 21 | 26 | 15 | 6 | 0 | 0 |
| 164 | Accessory | Non-Participating | 724072.06 | 4773531.72 | 24 | 28 | 28 | 25 | 23 | 26 | 14 | 4 | 0 | 0 |
| 1168 | Accessory | Non-Participating | 722600.14 | 4773139.59 | 24 | 30 | 31 | 25 | 21 | 26 | 15 | 5 | 0 | 0 |
| 775 | Accessory | Non-Participating | 729261.97 | 4773634.87 | 24 | 29 | 29 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 534 | Accessory | Non-Participating | 721826.78 | 4773173.84 | 24 | 31 | 30 | 24 | 21 | 26 | 15 | 6 | 0 | 0 |
| 776 | Accessory | Non-Participating | 729179.35 | 4773631.44 | 24 | 29 | 28 | 24 | 21 | 25 | 15 | 6 | 0 | 0 |
| 532 | Accessory | Non-Participating | 722498.05 | 4773124.70 | 23 | 30 | 31 | 24 | 21 | 25 | 15 | 4 | 0 | 0 |
| 1023 | Accessory | Non-Participating | 731999.16 | 4775900.68 | 23 | 26 | 26 | 23 | 21 | 25 | 15 | 8 | 0 | 0 |
| 987 | Accessory | Non-Participating | 720513.81 | 4775153.58 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 997 | Accessory | Non-Participating | 720527.89 | 4775140.32 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 703 | Accessory | Non-Participating | 729020.32 | 4773782.21 | 23 | 28 | 28 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 235 | Accessory | Non-Participating | 727966.32 | 4773178.80 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 6 | 0 | 0 |
| 367 | Accessory | Non-Participating | 721560.32 | 4773158.50 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 5 | 0 | 0 |
| 152 | Accessory | Non-Participating | 724070.64 | 4773332.05 | 23 | 28 | 28 | 25 | 22 | 25 | 13 | 2 | 0 | 0 |
| 682 | Accessory | Non-Participating | 728769.23 | 4773713.52 | 23 | 27 | 27 | 25 | 22 | 25 | 14 | 3 | 0 | 0 |
| 370 | Accessory | Non-Participating | 721440.75 | 4773165.18 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 1091 | Accessory | Non-Participating | 728257.56 | 4777914.28 | 23 | 26 | 26 | 25 | 22 | 24 | 14 | 8 | 0 | 0 |
| 363 | Accessory | Non-Participating | 721419.92 | 4773148.02 | 23 | 30 | 30 | 23 | 20 | 25 | 14 | 4 | 0 | 0 |
| 77 | Accessory | Non-Participating | 731226.04 | 4773924.41 | 23 | 28 | 27 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 704 | Accessory | Non-Participating | 728961.40 | 4773781.28 | 23 | 27 | 27 | 25 | 22 | 25 | 13 | 2 | 0 | 0 |
| 941 | Accessory | Non-Participating | 729652.07 | 4777755.03 | 23 | 28 | 28 | 24 | 21 | 24 | 14 | 4 | 0 | 0 |
| 939 | Accessory | Non-Participating | 729573.40 | 4777794.61 | 23 | 28 | 28 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 79 | Accessory | Non-Participating | 731084.36 | 4773905.89 | 23 | 27 | 27 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 201 | Accessory | Non-Participating | 731567.15 | 4777414.03 | 23 | 29 | 28 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 361 | Accessory | Non-Participating | 721370.27 | 4773144.60 | 23 | 30 | 30 | 23 | 20 | 24 | 14 | 4 | 0 | 0 |
| 675 | Accessory | Non-Participating | 728799.88 | 4773702.56 | 23 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 985 | Accessory | Non-Participating | 720346.42 | 4775122.95 | 22 | 30 | 30 | 23 | 20 | 24 | 14 | 3 | 0 | 0 |
| 677 | Accessory | Non-Participating | 728840.96 | 4773706.12 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 203 | Accessory | Non-Participating | 731538.36 | 4777429.80 | 22 | 28 | 28 | 23 | 19 | 24 | 14 | 4 | 0 | 0 |
| 457 | Accessory | Non-Participating | 731061.29 | 4774198.28 | 22 | 23 | 23 | 24 | 21 | 24 | 13 | 5 | 0 | 0 |
| 785 | Accessory | Non-Participating | 729470.56 | 4777817.80 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 3 | 0 | 0 |
| 644 | Accessory | Non-Participating | 728820.92 | 4773645.44 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 305 | Accessory | Non-Participating | 728290.07 | 4773321.62 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 779 | Accessory | Non-Participating | 728803.29 | 4773628.33 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 878 | Accessory | Non-Participating | 731065.74 | 4777557.16 | 22 | 27 | 27 | 23 | 20 | 24 | 14 | 5 | 0 | 0 |
| 865 | Accessory | Non-Participating | 731101.54 | 4777624.50 | 22 | 27 | 27 | 23 | 20 | 24 | 14 | 4 | 0 | 0 |
| 1011 | Accessory | Non-Participating | 732134.89 | 4775202.77 | 22 | 25 | 25 | 23 | 20 | 24 | 13 | 5 | 0 | 0 |
| 1014 | Accessory | Non-Participating | 732250.12 | 4775350.62 | 22 | 26 | 26 | 22 | 20 | 24 | 14 | 6 | 0 | 0 |
| 940 | Accessory | Non-Participating | 729629.19 | 4777756.33 | 22 | 27 | 27 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 71 | Accessory | Non-Participating | 730574.02 | 4773977.71 | 22 | 24 | 24 | 23 | 21 | 24 | 12 | 4 | 0 | 0 |
| 333 | Accessory | Non-Participating | 721321.17 | 4773187.22 | 22 | 30 | 29 | 23 | 19 | 24 | 13 | 2 | 0 | 0 |
| 684 | Accessory | Non-Participating | 729533.80 | 4773739.61 | 22 | 26 | 25 | 24 | 21 | 24 | 12 | 2 | 0 | 0 |
| 910 | Accessory | Non-Participating | 729679.99 | 4773827.97 | 22 | 23 | 24 | 24 | 21 | 24 | 12 | 3 | 0 | 0 |
| 681 | Accessory | Non-Participating | 728920.52 | 4773716.19 | 22 | 25 | 25 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 645 | Accessory | Non-Participating | 728942.44 | 4773645.67 | 22 | 25 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 202 | Accessory | Non-Participating | 731605.97 | 4777413.55 | 22 | 27 | 27 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 80 | Accessory | Non-Participating | 730748.42 | 4773894.85 | 22 | 24 | 24 | 23 | 20 | 23 | 12 | 4 | 0 | 0 |
| 757 | Accessory | Non-Participating | 729041.75 | 4773500.81 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 907 | Accessory | Non-Participating | 729977.31 | 4773915.49 | 22 | 23 | 23 | 24 | 21 | 23 | 11 | 2 | 0 | 0 |
| 308 | Accessory | Non-Participating | 728363.89 | 4773257.40 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 225 | Accessory | Non-Participating | 728394.38 | 4773255.25 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 748 | Accessory | Non-Participating | 728943.44 | 4773456.66 | 22 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 988 | Accessory | Non-Participating | 720317.90 | 4774351.21 | 21 | 29 | 28 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 761 | Accessory | Non-Participating | 728900.61 | 4773524.61 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 764 | Accessory | Non-Participating | 728961.25 | 4773541.17 | 21 | 26 | 26 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 942 | Accessory | Non-Participating | 729830.85 | 4777751.08 | 21 | 25 | 25 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 743 | Accessory | Non-Participating | 728904.61 | 4773442.14 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 750 | Accessory | Non-Participating | 728953.03 | 4773470.62 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 746 | Accessory | Non-Participating | 728844.73 | 4773448.64 | 21 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 138 | Accessory | Non-Participating | 731770.33 | 4774166.36 | 21 | 25 | 25 | 22 | 19 | 23 | 13 | 6 | 0 | 0 |
| 742 | Accessory | Non-Participating | 728873.78 | 4773437.00 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 749 | Accessory | Non-Participating | 728916.11 | 4773463.27 | 21 | 26 | 26 | 24 | 20 | 23 | 12 | 0 | 0 | 0 |
| 760 | Accessory | Non-Participating | 728955.22 | 4773519.14 | 21 | 26 | 26 | 24 | 21 | 23 | 11 | 0 | 0 | 0 |
| 876 | Accessory | Non-Participating | 730482.60 | 4777612.50 | 21 | 26 | 27 | 24 | 20 | 23 | 11 | 2 | 0 | 0 |
| 741 | Accessory | Non-Participating | 728947.57 | 4773436.17 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 744 | Accessory | Non-Participating | 729046.04 | 4773445.26 | 21 | 26 | 26 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |
| 911 | Accessory | Non-Participating | 729779.99 | 4773792.68 | 21 | 23 | 23 | 24 | 21 | 23 | 11 | 1 | 0 | 0 |
| 945 | Accessory | Non-Participating | 729799.53 | 4777809.71 | 21 | 25 | 25 | 23 | 20 | 23 | 12 | 2 | 0 | 0 |
| 144 | Accessory | Non-Participating | 731740.75 | 4774118.87 | 21 | 25 | 24 | 22 | 19 | 23 | 13 | 5 | 0 | 0 |
| 398 | Accessory | Non-Participating | 732459.07 | 4775528.14 | 21 | 26 | 26 | 22 | 19 | 23 | 13 | 3 | 0 | 0 |
| 880 | Accessory | Non-Participating | 727638.48 | 4772415.32 | 21 | 26 | 26 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 873 | Accessory | Non-Participating | 731047.39 | 4777379.17 | 21 | 24 | 24 | 23 | 20 | 23 | 11 | 2 | 0 | 0 |
| 228 | Accessory | Non-Participating | 728338.03 | 4773178.70 | 21 | 25 | 25 | 24 | 20 | 23 | 11 | 0 | 0 | 0 |

**Table 7-4.1f: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Accessory and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 139 | Accessory | Non-Participating | 731844.73 | 4774155.77 | 21 | 24 | 24 | 22 | 19 | 23 | 12 | 5 | 0 | 0 |
| 735 | Accessory | Non-Participating | 729044.08 | 4773389.15 | 21 | 26 | 26 | 23 | 20 | 23 | 11 | 0 | 0 | 0 |
| 146 | Accessory | Non-Participating | 731871.61 | 4774163.80 | 21 | 24 | 24 | 22 | 19 | 22 | 12 | 5 | 0 | 0 |
| 912 | Accessory | Non-Participating | 730276.80 | 4773687.67 | 21 | 23 | 23 | 23 | 20 | 22 | 11 | 0 | 0 | 0 |
| 866 | Accessory | Non-Participating | 731097.34 | 4777530.44 | 21 | 24 | 24 | 22 | 19 | 22 | 11 | 2 | 0 | 0 |
| 727 | Accessory | Non-Participating | 728942.42 | 4773327.58 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 875 | Accessory | Non-Participating | 730592.71 | 4777699.18 | 20 | 25 | 26 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 1092 | Accessory | Non-Participating | 730585.46 | 4777713.59 | 20 | 25 | 26 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 449 | Accessory | Non-Participating | 728364.95 | 4772504.73 | 20 | 28 | 27 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 447 | Accessory | Non-Participating | 728290.21 | 4773137.67 | 20 | 23 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 784 | Accessory | Non-Participating | 729321.90 | 4777828.27 | 20 | 22 | 23 | 24 | 20 | 22 | 10 | 0 | 0 | 0 |
| 936 | Accessory | Non-Participating | 727196.24 | 4772173.59 | 20 | 24 | 24 | 23 | 19 | 22 | 10 | 2 | 0 | 0 |
| 783 | Accessory | Non-Participating | 729352.17 | 4777860.80 | 20 | 22 | 23 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 450 | Accessory | Non-Participating | 728269.85 | 4772493.90 | 20 | 27 | 26 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 448 | Accessory | Non-Participating | 728281.31 | 4773088.51 | 20 | 23 | 23 | 23 | 20 | 22 | 9 | 0 | 0 | 0 |
| 356 | Accessory | Non-Participating | 721003.46 | 4773026.27 | 20 | 28 | 28 | 21 | 18 | 22 | 10 | 0 | 0 | 0 |
| 885 | Accessory | Non-Participating | 732526.28 | 4777023.04 | 19 | 25 | 25 | 20 | 17 | 20 | 10 | 0 | 0 | 0 |
| 402 | Accessory | Non-Participating | 732453.65 | 4775378.60 | 19 | 22 | 22 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 110 | Accessory | Non-Participating | 725725.78 | 4771932.44 | 18 | 24 | 24 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 1054 | Accessory | Non-Participating | 726445.62 | 4771874.83 | 18 | 21 | 21 | 22 | 18 | 20 | 8 | 0 | 0 | 0 |
| 404 | Accessory | Non-Participating | 732448.28 | 4775334.30 | 18 | 20 | 20 | 21 | 18 | 20 | 8 | 0 | 0 | 0 |
| 93 | Accessory | Non-Participating | 726098.64 | 4771836.29 | 18 | 22 | 22 | 22 | 18 | 20 | 7 | 0 | 0 | 0 |
| 360 | Accessory | Non-Participating | 720878.36 | 4773075.46 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 109 | Accessory | Non-Participating | 725538.69 | 4771937.04 | 18 | 23 | 23 | 22 | 18 | 20 | 6 | 0 | 0 | 0 |
| 137 | Accessory | Non-Participating | 732065.75 | 4774185.23 | 18 | 20 | 20 | 20 | 18 | 20 | 7 | 0 | 0 | 0 |
| 355 | Accessory | Non-Participating | 720864.31 | 4773077.64 | 18 | 26 | 26 | 20 | 17 | 20 | 7 | 0 | 0 | 0 |
| 86 | Accessory | Non-Participating | 725662.02 | 4771855.59 | 18 | 23 | 23 | 22 | 18 | 20 | 6 | 0 | 0 | 0 |
| 91 | Accessory | Non-Participating | 725621.01 | 4771841.29 | 18 | 23 | 23 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 92 | Accessory | Non-Participating | 725835.99 | 4771836.53 | 18 | 21 | 22 | 21 | 18 | 19 | 6 | 0 | 0 | 0 |
| 887 | Accessory | Non-Participating | 732353.63 | 4777511.25 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 336 | Accessory | Non-Participating | 720831.62 | 4773220.06 | 17 | 26 | 26 | 21 | 17 | 19 | 6 | 0 | 0 | 0 |
| 889 | Accessory | Non-Participating | 732393.49 | 4777521.10 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 890 | Accessory | Non-Participating | 732369.20 | 4777535.08 | 17 | 24 | 24 | 20 | 16 | 19 | 8 | 0 | 0 | 0 |
| 888 | Accessory | Non-Participating | 732419.14 | 4777520.37 | 17 | 24 | 23 | 19 | 16 | 19 | 7 | 0 | 0 | 0 |
| 983 | Accessory | Non-Participating | 720240.22 | 4775109.47 | 17 | 20 | 20 | 20 | 17 | 19 | 6 | 0 | 0 | 0 |
| 892 | Accessory | Non-Participating | 732653.11 | 4777362.87 | 17 | 23 | 23 | 19 | 15 | 19 | 7 | 0 | 0 | 0 |
| 369 | Accessory | Non-Participating | 720766.00 | 4773133.50 | 17 | 25 | 25 | 20 | 16 | 19 | 5 | 0 | 0 | 0 |
| 1095 | Accessory | Non-Participating | 730602.41 | 4778307.28 | 17 | 20 | 21 | 21 | 17 | 18 | 5 | 0 | 0 | 0 |
| 893 | Accessory | Non-Participating | 732633.27 | 4777415.86 | 16 | 23 | 22 | 19 | 15 | 18 | 6 | 0 | 0 | 0 |
| 206 | Accessory | Non-Participating | 731994.97 | 4777575.77 | 16 | 19 | 19 | 20 | 16 | 18 | 5 | 0 | 0 | 0 |
| 1099 | Accessory | Non-Participating | 730620.25 | 4778435.33 | 16 | 19 | 20 | 20 | 16 | 18 | 4 | 0 | 0 | 0 |
| 1098 | Accessory | Non-Participating | 730734.42 | 4778437.57 | 16 | 20 | 20 | 20 | 16 | 17 | 4 | 0 | 0 | 0 |
| 788 | Accessory | Non-Participating | 732731.79 | 4776597.32 | 16 | 19 | 19 | 19 | 16 | 17 | 4 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Accessory Receptors | | | | | | | | | | | | | | |
| **519** | **Accessory** | **Non-Participating** | **725569.76** | **4776872.88** | **41** | **40** | **41** | **38** | **34** | **39** | **32** | **30** | **36** | **20** |
| **788** | **Accessory** | **Non-Participating** | **732731.79** | **4776597.32** | **16** | **19** | **19** | **19** | **16** | **17** | **4** | **0** | **0** | **0** |

**Table 7-4g: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Accessory and Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 133 | Accessory | Participating | 721385.53 | 4774602.78 | 35 | 37 | 36 | 33 | 29 | 35 | 28 | 25 | 27 | 0 |
| 377 | Accessory | Participating | 729322.08 | 4774690.37 | 38 | 38 | 38 | 35 | 31 | 37 | 30 | 28 | 30 | 9 |
| 425 | Accessory | Participating | 722477.47 | 4775194.28 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 28 | 0 |
| 427 | Accessory | Participating | 722498.04 | 4775200.18 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 28 | 0 |
| 431 | Accessory | Participating | 722676.55 | 4775207.64 | 39 | 40 | 39 | 36 | 32 | 38 | 31 | 28 | 31 | 11 |
| 481 | Accessory | Participating | 730930.98 | 4774714.18 | 33 | 36 | 35 | 31 | 28 | 34 | 26 | 23 | 21 | 0 |
| 581 | Accessory | Participating | 728982.16 | 4775530.76 | 41 | 40 | 40 | 38 | 34 | 40 | 33 | 31 | 36 | 18 |
| 585 | Accessory | Participating | 729040.17 | 4775656.74 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 954 | Accessory | Participating | 727052.64 | 4775561.62 | 35 | 38 | 41 | 37 | 33 | 36 | 29 | 23 | 18 | 0 |
| 956 | Accessory | Participating | 727015.41 | 4775530.67 | 35 | 38 | 41 | 37 | 33 | 36 | 29 | 23 | 17 | 0 |
| 1130 | Accessory | Participating | 723433.34 | 4775173.82 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 26 | 28 | 4 |
| 1163 | Accessory | Participating | 723347.01 | 4775180.57 | 39 | 39 | 39 | 36 | 32 | 38 | 31 | 29 | 33 | 13 |
| Summary of Maximum and Minimum Sound Levels for Participating Accessory Receptors | | | | | | | | | | | | | | |
| **581** | **Accessory** | **Participating** | **728982.16** | **4775530.76** | **41** | **40** | **40** | **38** | **34** | **40** | **33** | **31** | **36** | **18** |
| **481** | **Accessory** | **Participating** | **730930.98** | **4774714.18** | **33** | **36** | **35** | **31** | **28** | **34** | **26** | **23** | **21** | **0** |

**Table 7-4h: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Accessory and Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 581 | Accessory | Participating | 728982.16 | 4775530.76 | 41 | 40 | 40 | 38 | 34 | 40 | 33 | 31 | 36 | 18 |
| 1163 | Accessory | Participating | 723347.01 | 4775180.57 | 39 | 39 | 39 | 36 | 32 | 38 | 31 | 29 | 33 | 13 |
| 431 | Accessory | Participating | 722676.55 | 4775207.64 | 39 | 40 | 39 | 36 | 32 | 38 | 31 | 28 | 31 | 11 |
| 425 | Accessory | Participating | 722477.47 | 4775194.28 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 28 | 0 |
| 377 | Accessory | Participating | 729322.08 | 4774690.37 | 38 | 38 | 38 | 35 | 31 | 37 | 30 | 28 | 30 | 9 |
| 427 | Accessory | Participating | 722498.04 | 4775200.18 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 28 | 0 |
| 1130 | Accessory | Participating | 723433.34 | 4775173.82 | 37 | 38 | 38 | 34 | 31 | 37 | 29 | 26 | 28 | 4 |
| 585 | Accessory | Participating | 729040.17 | 4775656.74 | 36 | 37 | 37 | 34 | 30 | 36 | 28 | 26 | 27 | 0 |
| 133 | Accessory | Participating | 727015.41 | 4775530.67 | 35 | 38 | 41 | 37 | 33 | 36 | 29 | 23 | 17 | 0 |
| 954 | Accessory | Participating | 721385.53 | 4774602.78 | 35 | 37 | 36 | 33 | 29 | 35 | 28 | 25 | 27 | 0 |
| 956 | Accessory | Participating | 727052.64 | 4775561.62 | 35 | 38 | 41 | 37 | 33 | 36 | 29 | 23 | 18 | 0 |
| 481 | Accessory | Participating | 730930.98 | 4774714.18 | 33 | 36 | 35 | 31 | 28 | 34 | 26 | 23 | 21 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Accessory Receptors | | | | | | | | | | | | | | |
| **581** | **Accessory** | **Participating** | **728982.16** | **4775530.76** | **41** | **40** | **40** | **38** | **34** | **40** | **33** | **31** | **36** | **18** |
| **481** | **Accessory** | **Participating** | **730930.98** | **4774714.18** | **33** | **36** | **35** | **31** | **28** | **34** | **26** | **23** | **21** | **0** |

**Table 7-4.1i: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Non-Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 13 | Non-Residential | Non-Participating | 721396.72 | 4774939.06 | 32 | 35 | 34 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 28 | Non-Residential | Non-Participating | 720825.71 | 4775228.85 | 24 | 29 | 29 | 24 | 21 | 26 | 17 | 9 | 0 | 0 |
| 32 | Non-Residential | Non-Participating | 721227.69 | 4775309.74 | 28 | 32 | 31 | 26 | 24 | 29 | 20 | 14 | 1 | 0 |
| 34 | Non-Residential | Non-Participating | 721131.80 | 4775317.09 | 26 | 30 | 30 | 25 | 23 | 28 | 18 | 12 | 0 | 0 |
| 78 | Non-Residential | Non-Participating | 730685.44 | 4773898.92 | 22 | 24 | 24 | 23 | 20 | 23 | 12 | 4 | 0 | 0 |
| 81 | Non-Residential | Non-Participating | 730670.77 | 4773870.77 | 21 | 24 | 24 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 96 | Non-Residential | Non-Participating | 725961.99 | 4772079.10 | 23 | 30 | 29 | 24 | 20 | 24 | 14 | 5 | 0 | 0 |
| 97 | Non-Residential | Non-Participating | 725970.83 | 4772128.09 | 23 | 30 | 29 | 24 | 21 | 25 | 14 | 6 | 0 | 0 |
| 98 | Non-Residential | Non-Participating | 726019.41 | 4772128.47 | 23 | 30 | 29 | 24 | 21 | 25 | 14 | 7 | 0 | 0 |
| 99 | Non-Residential | Non-Participating | 725992.24 | 4772099.64 | 23 | 29 | 29 | 24 | 20 | 24 | 14 | 6 | 0 | 0 |
| 100 | Non-Residential | Non-Participating | 725987.40 | 4772062.89 | 22 | 29 | 29 | 24 | 20 | 24 | 14 | 5 | 0 | 0 |
| 101 | Non-Residential | Non-Participating | 725967.74 | 4772050.36 | 22 | 29 | 29 | 24 | 20 | 24 | 13 | 5 | 0 | 0 |
| 103 | Non-Residential | Non-Participating | 725840.13 | 4771984.51 | 20 | 27 | 27 | 23 | 19 | 22 | 9 | 0 | 0 | 0 |
| 104 | Non-Residential | Non-Participating | 725874.49 | 4771992.28 | 21 | 28 | 28 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 105 | Non-Residential | Non-Participating | 725752.15 | 4771979.82 | 20 | 27 | 27 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 106 | Non-Residential | Non-Participating | 725790.11 | 4771967.33 | 20 | 26 | 26 | 22 | 19 | 21 | 9 | 0 | 0 | 0 |
| 107 | Non-Residential | Non-Participating | 725866.44 | 4771963.17 | 19 | 24 | 24 | 22 | 19 | 20 | 7 | 0 | 0 | 0 |
| 108 | Non-Residential | Non-Participating | 725775.79 | 4771948.84 | 19 | 25 | 25 | 22 | 19 | 21 | 8 | 0 | 0 | 0 |
| 135 | Non-Residential | Non-Participating | 720928.26 | 4774673.26 | 27 | 32 | 32 | 26 | 23 | 29 | 20 | 14 | 4 | 0 |
| 169 | Non-Residential | Non-Participating | 729689.45 | 4776943.81 | 32 | 35 | 34 | 30 | 27 | 33 | 24 | 20 | 17 | 0 |
| 170 | Non-Residential | Non-Participating | 729568.38 | 4776936.90 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 14 | 0 |
| 173 | Non-Residential | Non-Participating | 729694.66 | 4776914.24 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 174 | Non-Residential | Non-Participating | 729659.16 | 4776898.92 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 191 | Non-Residential | Non-Participating | 730079.62 | 4777207.89 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 193 | Non-Residential | Non-Participating | 729733.65 | 4777198.30 | 28 | 33 | 33 | 28 | 25 | 30 | 21 | 15 | 4 | 0 |
| 194 | Non-Residential | Non-Participating | 730099.69 | 4777191.30 | 30 | 34 | 34 | 28 | 25 | 31 | 22 | 17 | 9 | 0 |
| 195 | Non-Residential | Non-Participating | 729644.42 | 4777117.94 | 30 | 34 | 34 | 29 | 26 | 31 | 23 | 17 | 8 | 0 |
| 199 | Non-Residential | Non-Participating | 729622.79 | 4776958.51 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 14 | 0 |
| 200 | Non-Residential | Non-Participating | 729666.00 | 4776974.56 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 15 | 0 |
| 205 | Non-Residential | Non-Participating | 732089.81 | 4777539.71 | 16 | 21 | 21 | 20 | 16 | 18 | 6 | 0 | 0 | 0 |
| 207 | Non-Residential | Non-Participating | 732062.54 | 4777542.72 | 17 | 21 | 21 | 20 | 16 | 18 | 6 | 0 | 0 | 0 |
| 240 | Non-Residential | Non-Participating | 727879.59 | 4773929.12 | 27 | 31 | 31 | 27 | 25 | 29 | 19 | 12 | 0 | 0 |
| 249 | Non-Residential | Non-Participating | 727984.54 | 4773826.32 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 278 | Non-Residential | Non-Participating | 727883.88 | 4773731.23 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 279 | Non-Residential | Non-Participating | 727927.78 | 4773734.05 | 26 | 31 | 30 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 291 | Non-Residential | Non-Participating | 728453.87 | 4773711.55 | 25 | 30 | 30 | 26 | 22 | 26 | 16 | 6 | 0 | 0 |
| 301 | Non-Residential | Non-Participating | 728756.34 | 4773625.69 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 302 | Non-Residential | Non-Participating | 728708.41 | 4773516.20 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 304 | Non-Residential | Non-Participating | 728718.30 | 4773504.88 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 334 | Non-Residential | Non-Participating | 720868.96 | 4773220.33 | 18 | 26 | 25 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 335 | Non-Residential | Non-Participating | 720922.80 | 4773225.66 | 18 | 25 | 25 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 338 | Non-Residential | Non-Participating | 720870.94 | 4773247.90 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 339 | Non-Residential | Non-Participating | 720815.84 | 4773263.35 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 341 | Non-Residential | Non-Participating | 720868.33 | 4773286.94 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 342 | Non-Residential | Non-Participating | 720925.21 | 4773283.11 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 344 | Non-Residential | Non-Participating | 720805.89 | 4773360.49 | 19 | 26 | 25 | 21 | 18 | 21 | 10 | 0 | 0 | 0 |
| 345 | Non-Residential | Non-Participating | 720830.09 | 4773392.48 | 19 | 26 | 26 | 21 | 18 | 21 | 10 | 0 | 0 | 0 |
| 346 | Non-Residential | Non-Participating | 720962.54 | 4773366.79 | 19 | 27 | 27 | 22 | 18 | 21 | 8 | 0 | 0 | 0 |
| 347 | Non-Residential | Non-Participating | 721084.54 | 4773448.39 | 26 | 31 | 30 | 26 | 24 | 28 | 16 | 7 | 0 | 0 |
| 348 | Non-Residential | Non-Participating | 720972.79 | 4773515.15 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 6 | 0 | 0 |
| 349 | Non-Residential | Non-Participating | 721002.15 | 4773523.10 | 23 | 31 | 31 | 24 | 20 | 25 | 15 | 6 | 0 | 0 |
| 350 | Non-Residential | Non-Participating | 720966.52 | 4773529.76 | 23 | 30 | 31 | 23 | 20 | 25 | 15 | 6 | 0 | 0 |
| 351 | Non-Residential | Non-Participating | 720991.26 | 4773543.50 | 23 | 31 | 31 | 24 | 20 | 25 | 15 | 6 | 0 | 0 |
| 352 | Non-Residential | Non-Participating | 720913.01 | 4773481.56 | 22 | 29 | 29 | 23 | 19 | 24 | 14 | 5 | 0 | 0 |
| 353 | Non-Residential | Non-Participating | 721138.64 | 4773700.27 | 25 | 31 | 31 | 24 | 21 | 27 | 17 | 10 | 0 | 0 |
| 354 | Non-Residential | Non-Participating | 720720.85 | 4773796.44 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 6 | 0 | 0 |
| 389 | Non-Residential | Non-Participating | 729111.26 | 4774260.01 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 15 | 6 | 0 |
| 408 | Non-Residential | Non-Participating | 725986.23 | 4773842.99 | 32 | 36 | 36 | 30 | 28 | 33 | 25 | 19 | 10 | 0 |
| 420 | Non-Residential | Non-Participating | 728326.58 | 4774203.34 | 27 | 30 | 30 | 27 | 24 | 28 | 18 | 11 | 0 | 0 |
| 435 | Non-Residential | Non-Participating | 722674.87 | 4775645.70 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 31 | 11 |
| 442 | Non-Residential | Non-Participating | 728310.48 | 4774210.75 | 27 | 31 | 31 | 27 | 24 | 28 | 19 | 11 | 0 | 0 |
| 478 | Non-Residential | Non-Participating | 730840.92 | 4774685.18 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 23 | 20 | 0 |
| 491 | Non-Residential | Non-Participating | 725265.09 | 4775567.22 | 36 | 37 | 37 | 35 | 31 | 36 | 28 | 25 | 27 | 0 |
| 507 | Non-Residential | Non-Participating | 728003.86 | 4775843.89 | 29 | 31 | 32 | 30 | 27 | 30 | 21 | 15 | 8 | 0 |
| 531 | Non-Residential | Non-Participating | 721753.74 | 4773011.44 | 23 | 30 | 31 | 24 | 20 | 24 | 14 | 3 | 0 | 0 |
| 551 | Non-Residential | Non-Participating | 728771.76 | 4775056.94 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 22 | 19 | 0 |
| 556 | Non-Residential | Non-Participating | 729459.68 | 4776418.62 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 561 | Non-Residential | Non-Participating | 729547.78 | 4776575.33 | 34 | 36 | 36 | 32 | 28 | 35 | 27 | 24 | 23 | 0 |
| 562 | Non-Residential | Non-Participating | 729513.20 | 4776527.80 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 563 | Non-Residential | Non-Participating | 729552.77 | 4776541.07 | 33 | 35 | 35 | 31 | 28 | 34 | 25 | 22 | 20 | 0 |
| 566 | Non-Residential | Non-Participating | 729456.51 | 4776469.72 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 571 | Non-Residential | Non-Participating | 729484.30 | 4776348.78 | 33 | 36 | 35 | 31 | 28 | 34 | 26 | 22 | 19 | 0 |
| 575 | Non-Residential | Non-Participating | 730640.33 | 4778734.63 | 15 | 19 | 19 | 19 | 15 | 16 | 2 | 0 | 0 | 0 |
| 576 | Non-Residential | Non-Participating | 730577.26 | 4778724.35 | 15 | 19 | 19 | 20 | 15 | 16 | 2 | 0 | 0 | 0 |
| 577 | Non-Residential | Non-Participating | 730749.90 | 4778648.39 | 15 | 19 | 19 | 20 | 15 | 16 | 2 | 0 | 0 | 0 |
| 578 | Non-Residential | Non-Participating | 730791.05 | 4778645.62 | 15 | 19 | 19 | 19 | 15 | 16 | 2 | 0 | 0 | 0 |
| 579 | Non-Residential | Non-Participating | 730702.30 | 4778755.53 | 14 | 19 | 19 | 19 | 15 | 16 | 2 | 0 | 0 | 0 |
| 607 | Non-Residential | Non-Participating | 729015.63 | 4773868.13 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 611 | Non-Residential | Non-Participating | 729526.43 | 4773896.11 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 11 | 0 | 0 |
| 614 | Non-Residential | Non-Participating | 729032.54 | 4773886.84 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 628 | Non-Residential | Non-Participating | 729645.11 | 4774011.14 | 28 | 33 | 32 | 27 | 24 | 29 | 20 | 13 | 2 | 0 |
| 636 | Non-Residential | Non-Participating | 729048.68 | 4773638.49 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 650 | Non-Residential | Non-Participating | 728999.99 | 4773652.11 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 654 | Non-Residential | Non-Participating | 729003.61 | 4773686.48 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 658 | Non-Residential | Non-Participating | 728979.03 | 4773689.56 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 660 | Non-Residential | Non-Participating | 729010.30 | 4773699.28 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 685 | Non-Residential | Non-Participating | 729010.81 | 4773721.26 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |

**Table 7-4.1i: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Non-Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 687 | Non-Residential | Non-Participating | 729055.60 | 4773722.46 | 23 | 28 | 28 | 25 | 21 | 25 | 14 | 3 | 0 | 0 |
| 693 | Non-Residential | Non-Participating | 729015.97 | 4773741.29 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 698 | Non-Residential | Non-Participating | 729016.55 | 4773755.72 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 730 | Non-Residential | Non-Participating | 728954.76 | 4773350.89 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 731 | Non-Residential | Non-Participating | 729185.25 | 4773356.62 | 20 | 24 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 763 | Non-Residential | Non-Participating | 728854.98 | 4773526.24 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 767 | Non-Residential | Non-Participating | 728779.82 | 4773539.05 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 770 | Non-Residential | Non-Participating | 728865.63 | 4773554.18 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 773 | Non-Residential | Non-Participating | 728836.98 | 4773583.15 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 774 | Non-Residential | Non-Participating | 728992.57 | 4773609.81 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 778 | Non-Residential | Non-Participating | 728996.12 | 4773628.79 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 802 | Non-Residential | Non-Participating | 728403.92 | 4777478.34 | 26 | 27 | 27 | 27 | 25 | 28 | 17 | 12 | 9 | 0 |
| 830 | Non-Residential | Non-Participating | 728416.15 | 4777490.15 | 26 | 26 | 27 | 27 | 24 | 27 | 17 | 12 | 8 | 0 |
| 831 | Non-Residential | Non-Participating | 728433.12 | 4777481.75 | 26 | 26 | 27 | 27 | 24 | 27 | 17 | 12 | 8 | 0 |
| 837 | Non-Residential | Non-Participating | 728676.46 | 4775734.14 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 853 | Non-Residential | Non-Participating | 727753.02 | 4773973.24 | 27 | 31 | 31 | 28 | 25 | 29 | 19 | 12 | 0 | 0 |
| 854 | Non-Residential | Non-Participating | 727813.15 | 4773892.98 | 27 | 31 | 31 | 27 | 25 | 29 | 19 | 12 | 0 | 0 |
| 855 | Non-Residential | Non-Participating | 727657.54 | 4773879.47 | 28 | 31 | 31 | 28 | 26 | 30 | 19 | 12 | 1 | 0 |
| 856 | Non-Residential | Non-Participating | 727718.36 | 4773820.69 | 27 | 31 | 31 | 28 | 25 | 29 | 19 | 13 | 2 | 0 |
| 857 | Non-Residential | Non-Participating | 727647.42 | 4773832.34 | 27 | 31 | 31 | 28 | 25 | 29 | 19 | 12 | 2 | 0 |
| 860 | Non-Residential | Non-Participating | 727834.94 | 4773759.97 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 11 | 0 | 0 |
| 861 | Non-Residential | Non-Participating | 727785.07 | 4773698.71 | 27 | 31 | 31 | 27 | 24 | 28 | 19 | 12 | 0 | 0 |
| 867 | Non-Residential | Non-Participating | 730578.74 | 4777473.16 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 882 | Non-Residential | Non-Participating | 727605.09 | 4772483.26 | 22 | 26 | 26 | 23 | 20 | 23 | 13 | 4 | 0 | 0 |
| 913 | Non-Residential | Non-Participating | 729731.55 | 4773919.91 | 23 | 25 | 25 | 24 | 22 | 24 | 13 | 4 | 0 | 0 |
| 914 | Non-Residential | Non-Participating | 729800.15 | 4773969.13 | 23 | 25 | 25 | 24 | 22 | 25 | 13 | 5 | 0 | 0 |
| 915 | Non-Residential | Non-Participating | 729735.49 | 4774014.87 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 916 | Non-Residential | Non-Participating | 729709.56 | 4773995.61 | 26 | 30 | 30 | 26 | 23 | 27 | 17 | 9 | 0 | 0 |
| 917 | Non-Residential | Non-Participating | 729872.10 | 4774016.65 | 23 | 25 | 25 | 25 | 22 | 25 | 14 | 6 | 0 | 0 |
| 918 | Non-Residential | Non-Participating | 729949.32 | 4774052.64 | 24 | 27 | 27 | 25 | 23 | 26 | 16 | 8 | 0 | 0 |
| 919 | Non-Residential | Non-Participating | 729938.17 | 4774067.92 | 25 | 28 | 28 | 25 | 23 | 26 | 16 | 8 | 0 | 0 |
| 948 | Non-Residential | Non-Participating | 729898.72 | 4777865.12 | 20 | 24 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 949 | Non-Residential | Non-Participating | 729910.29 | 4777866.94 | 20 | 24 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 950 | Non-Residential | Non-Participating | 729864.64 | 4777891.64 | 20 | 22 | 23 | 23 | 19 | 21 | 9 | 0 | 0 | 0 |
| 951 | Non-Residential | Non-Participating | 729901.65 | 4777894.72 | 20 | 23 | 23 | 23 | 19 | 21 | 9 | 0 | 0 | 0 |
| 976 | Non-Residential | Non-Participating | 725002.02 | 4773523.04 | 26 | 30 | 30 | 27 | 24 | 28 | 18 | 9 | 0 | 0 |
| 1049 | Non-Residential | Non-Participating | 726592.89 | 4772035.78 | 22 | 25 | 25 | 23 | 20 | 23 | 13 | 7 | 0 | 0 |
| 1055 | Non-Residential | Non-Participating | 726590.23 | 4771941.03 | 21 | 24 | 24 | 22 | 19 | 22 | 12 | 5 | 0 | 0 |
| 1056 | Non-Residential | Non-Participating | 726001.95 | 4778328.45 | 20 | 25 | 26 | 25 | 20 | 22 | 9 | 0 | 0 | 0 |
| 1067 | Non-Residential | Non-Participating | 724580.91 | 4775593.33 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 18 | 0 |
| 1072 | Non-Residential | Non-Participating | 724790.66 | 4775530.95 | 33 | 35 | 36 | 33 | 30 | 34 | 25 | 20 | 16 | 0 |
| 1086 | Non-Residential | Non-Participating | 724478.18 | 4775593.02 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 1087 | Non-Residential | Non-Participating | 724563.97 | 4775600.28 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 18 | 0 |
| 1088 | Non-Residential | Non-Participating | 728024.17 | 4778414.01 | 20 | 24 | 25 | 24 | 19 | 21 | 10 | 1 | 0 | 0 |
| 1089 | Non-Residential | Non-Participating | 728360.59 | 4778409.63 | 20 | 25 | 25 | 23 | 19 | 22 | 11 | 1 | 0 | 0 |
| 1093 | Non-Residential | Non-Participating | 730481.72 | 4777718.89 | 20 | 23 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 1101 | Non-Residential | Non-Participating | 730689.50 | 4778581.59 | 15 | 19 | 19 | 20 | 16 | 17 | 3 | 0 | 0 | 0 |
| 1102 | Non-Residential | Non-Participating | 730701.72 | 4778604.19 | 15 | 19 | 19 | 20 | 16 | 17 | 3 | 0 | 0 | 0 |
| 1113 | Non-Residential | Non-Participating | 722739.71 | 4776104.48 | 34 | 36 | 36 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 1114 | Non-Residential | Non-Participating | 722782.20 | 4776059.06 | 35 | 37 | 37 | 33 | 30 | 35 | 27 | 25 | 25 | 0 |
| 1172 | Non-Residential | Non-Participating | 723302.27 | 4773252.98 | 25 | 31 | 31 | 25 | 22 | 27 | 16 | 7 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Non-Residential Receptors | | | | | | | | | | | | | | |
| **435** | **Non-Residential** | **Non-Participating** | **722674.87** | **4775645.70** | **38** | **39** | **39** | **35** | **32** | **38** | **30** | **28** | **31** | **11** |
| **579** | **Non-Residential** | **Non-Participating** | **730702.30** | **4778755.53** | **14** | **19** | **19** | **19** | **15** | **16** | **2** | **0** | **0** | **0** |

**Table 7-4.1j: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Non-Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 435 | Non-Residential | Non-Participating | 722674.87 | 4775645.70 | 38 | 39 | 39 | 35 | 32 | 38 | 30 | 28 | 31 | 11 |
| 491 | Non-Residential | Non-Participating | 725265.09 | 4775567.22 | 36 | 37 | 37 | 35 | 31 | 36 | 28 | 25 | 27 | 0 |
| 1114 | Non-Residential | Non-Participating | 722782.20 | 4776059.06 | 35 | 37 | 37 | 33 | 30 | 35 | 27 | 25 | 25 | 0 |
| 1113 | Non-Residential | Non-Participating | 722739.71 | 4776104.48 | 34 | 36 | 36 | 33 | 29 | 35 | 27 | 24 | 24 | 0 |
| 561 | Non-Residential | Non-Participating | 729547.78 | 4776575.33 | 34 | 36 | 36 | 32 | 28 | 35 | 27 | 24 | 23 | 0 |
| 562 | Non-Residential | Non-Participating | 729513.20 | 4776527.80 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 1086 | Non-Residential | Non-Participating | 724478.18 | 4775593.02 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 19 | 0 |
| 1067 | Non-Residential | Non-Participating | 724580.91 | 4775593.33 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 18 | 0 |
| 1087 | Non-Residential | Non-Participating | 724563.97 | 4775600.28 | 34 | 37 | 37 | 32 | 29 | 35 | 26 | 22 | 18 | 0 |
| 556 | Non-Residential | Non-Participating | 729459.68 | 4776418.62 | 34 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 21 | 0 |
| 566 | Non-Residential | Non-Participating | 729456.51 | 4776469.72 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 837 | Non-Residential | Non-Participating | 728676.46 | 4775734.14 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 23 | 22 | 0 |
| 551 | Non-Residential | Non-Participating | 728771.76 | 4775056.94 | 33 | 36 | 36 | 32 | 28 | 34 | 26 | 22 | 19 | 0 |
| 478 | Non-Residential | Non-Participating | 730840.92 | 4774685.18 | 33 | 36 | 36 | 31 | 28 | 34 | 26 | 23 | 20 | 0 |
| 571 | Non-Residential | Non-Participating | 729484.30 | 4776348.78 | 33 | 36 | 35 | 31 | 28 | 34 | 26 | 22 | 19 | 0 |
| 563 | Non-Residential | Non-Participating | 729552.77 | 4776541.07 | 33 | 35 | 35 | 31 | 28 | 34 | 25 | 22 | 20 | 0 |
| 1072 | Non-Residential | Non-Participating | 724790.66 | 4775530.95 | 33 | 35 | 36 | 33 | 30 | 34 | 25 | 20 | 16 | 0 |
| 173 | Non-Residential | Non-Participating | 729694.66 | 4776914.24 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 174 | Non-Residential | Non-Participating | 729659.16 | 4776898.92 | 32 | 35 | 35 | 30 | 27 | 33 | 25 | 21 | 18 | 0 |
| 408 | Non-Residential | Non-Participating | 725986.23 | 4773842.99 | 32 | 36 | 36 | 30 | 28 | 33 | 25 | 19 | 10 | 0 |
| 13 | Non-Residential | Non-Participating | 721396.72 | 4774939.06 | 32 | 35 | 34 | 30 | 27 | 33 | 25 | 21 | 17 | 0 |
| 169 | Non-Residential | Non-Participating | 729689.45 | 4776943.81 | 32 | 35 | 34 | 30 | 27 | 33 | 24 | 20 | 17 | 0 |
| 200 | Non-Residential | Non-Participating | 729666.00 | 4776974.56 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 15 | 0 |
| 199 | Non-Residential | Non-Participating | 729622.79 | 4776958.51 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 14 | 0 |
| 170 | Non-Residential | Non-Participating | 729568.38 | 4776936.90 | 31 | 34 | 34 | 29 | 26 | 32 | 24 | 19 | 14 | 0 |
| 195 | Non-Residential | Non-Participating | 729644.42 | 4777117.94 | 30 | 34 | 34 | 29 | 26 | 31 | 23 | 17 | 8 | 0 |
| 194 | Non-Residential | Non-Participating | 730099.69 | 4777191.30 | 30 | 34 | 34 | 28 | 25 | 31 | 22 | 17 | 9 | 0 |
| 191 | Non-Residential | Non-Participating | 730079.62 | 4777207.89 | 29 | 34 | 34 | 28 | 25 | 31 | 22 | 17 | 8 | 0 |
| 389 | Non-Residential | Non-Participating | 729111.26 | 4774260.01 | 29 | 33 | 33 | 28 | 25 | 30 | 22 | 15 | 6 | 0 |
| 507 | Non-Residential | Non-Participating | 728003.86 | 4775843.89 | 29 | 31 | 32 | 30 | 27 | 30 | 21 | 15 | 8 | 0 |
| 193 | Non-Residential | Non-Participating | 729733.65 | 4777198.30 | 28 | 33 | 33 | 28 | 25 | 30 | 21 | 15 | 4 | 0 |
| 855 | Non-Residential | Non-Participating | 727657.54 | 4773879.47 | 28 | 31 | 31 | 28 | 26 | 30 | 19 | 12 | 1 | 0 |
| 32 | Non-Residential | Non-Participating | 721227.69 | 4775309.74 | 28 | 32 | 31 | 26 | 24 | 29 | 20 | 14 | 1 | 0 |
| 628 | Non-Residential | Non-Participating | 729645.11 | 4774011.14 | 28 | 33 | 32 | 27 | 24 | 29 | 20 | 13 | 2 | 0 |
| 856 | Non-Residential | Non-Participating | 727718.36 | 4773820.69 | 27 | 31 | 31 | 28 | 25 | 29 | 19 | 13 | 2 | 0 |
| 135 | Non-Residential | Non-Participating | 720928.26 | 4774673.26 | 27 | 32 | 32 | 26 | 23 | 29 | 20 | 14 | 4 | 0 |
| 853 | Non-Residential | Non-Participating | 727753.02 | 4773973.24 | 27 | 31 | 31 | 28 | 25 | 29 | 19 | 12 | 0 | 0 |
| 857 | Non-Residential | Non-Participating | 727647.42 | 4773832.34 | 27 | 31 | 31 | 28 | 25 | 29 | 19 | 12 | 2 | 0 |
| 240 | Non-Residential | Non-Participating | 727879.59 | 4773929.12 | 27 | 31 | 31 | 27 | 25 | 29 | 19 | 12 | 0 | 0 |
| 854 | Non-Residential | Non-Participating | 727813.15 | 4773892.98 | 27 | 31 | 31 | 27 | 25 | 29 | 19 | 12 | 0 | 0 |
| 861 | Non-Residential | Non-Participating | 727785.07 | 4773698.71 | 27 | 31 | 31 | 27 | 24 | 28 | 19 | 12 | 0 | 0 |
| 442 | Non-Residential | Non-Participating | 728310.48 | 4774210.75 | 27 | 31 | 31 | 27 | 24 | 28 | 19 | 11 | 0 | 0 |
| 860 | Non-Residential | Non-Participating | 727834.94 | 4773759.97 | 27 | 31 | 31 | 27 | 24 | 28 | 18 | 11 | 0 | 0 |
| 420 | Non-Residential | Non-Participating | 728326.58 | 4774203.34 | 27 | 30 | 30 | 27 | 24 | 28 | 18 | 11 | 0 | 0 |
| 278 | Non-Residential | Non-Participating | 727883.88 | 4773731.23 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 249 | Non-Residential | Non-Participating | 727984.54 | 4773826.32 | 26 | 31 | 31 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 867 | Non-Residential | Non-Participating | 730578.74 | 4777473.16 | 26 | 32 | 32 | 26 | 23 | 28 | 19 | 11 | 0 | 0 |
| 802 | Non-Residential | Non-Participating | 728403.92 | 4777478.34 | 26 | 27 | 27 | 27 | 25 | 28 | 17 | 12 | 9 | 0 |
| 611 | Non-Residential | Non-Participating | 729526.43 | 4773896.11 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 11 | 0 | 0 |
| 279 | Non-Residential | Non-Participating | 727927.78 | 4773734.05 | 26 | 31 | 30 | 27 | 24 | 28 | 18 | 10 | 0 | 0 |
| 976 | Non-Residential | Non-Participating | 725002.02 | 4773523.04 | 26 | 30 | 30 | 27 | 24 | 28 | 18 | 9 | 0 | 0 |
| 34 | Non-Residential | Non-Participating | 721131.80 | 4775317.09 | 26 | 30 | 30 | 25 | 23 | 28 | 18 | 12 | 0 | 0 |
| 614 | Non-Residential | Non-Participating | 729032.54 | 4773886.84 | 26 | 32 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 607 | Non-Residential | Non-Participating | 729015.63 | 4773868.13 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 347 | Non-Residential | Non-Participating | 721084.54 | 4773448.39 | 26 | 31 | 30 | 26 | 24 | 28 | 16 | 7 | 0 | 0 |
| 915 | Non-Residential | Non-Participating | 729735.49 | 4774014.87 | 26 | 31 | 31 | 26 | 23 | 28 | 18 | 9 | 0 | 0 |
| 831 | Non-Residential | Non-Participating | 728433.12 | 4777481.75 | 26 | 26 | 27 | 27 | 24 | 27 | 17 | 12 | 8 | 0 |
| 830 | Non-Residential | Non-Participating | 728416.15 | 4777490.15 | 26 | 26 | 27 | 27 | 24 | 27 | 17 | 12 | 8 | 0 |
| 916 | Non-Residential | Non-Participating | 729709.56 | 4773995.61 | 26 | 30 | 30 | 26 | 23 | 27 | 17 | 9 | 0 | 0 |
| 353 | Non-Residential | Non-Participating | 721138.64 | 4773700.27 | 25 | 31 | 31 | 24 | 21 | 27 | 17 | 10 | 0 | 0 |
| 1172 | Non-Residential | Non-Participating | 723302.27 | 4773252.98 | 25 | 31 | 31 | 25 | 22 | 27 | 16 | 7 | 0 | 0 |
| 919 | Non-Residential | Non-Participating | 729938.17 | 4774067.92 | 25 | 28 | 28 | 25 | 23 | 26 | 16 | 8 | 0 | 0 |
| 291 | Non-Residential | Non-Participating | 728453.87 | 4773711.55 | 25 | 30 | 30 | 26 | 22 | 26 | 16 | 6 | 0 | 0 |
| 28 | Non-Residential | Non-Participating | 720825.71 | 4775228.85 | 24 | 29 | 29 | 24 | 21 | 26 | 17 | 9 | 0 | 0 |
| 918 | Non-Residential | Non-Participating | 729949.32 | 4774052.64 | 24 | 27 | 27 | 25 | 23 | 26 | 16 | 8 | 0 | 0 |
| 351 | Non-Residential | Non-Participating | 720991.26 | 4773543.50 | 23 | 31 | 31 | 24 | 20 | 25 | 15 | 6 | 0 | 0 |
| 349 | Non-Residential | Non-Participating | 721002.15 | 4773523.10 | 23 | 31 | 31 | 24 | 20 | 25 | 15 | 6 | 0 | 0 |
| 917 | Non-Residential | Non-Participating | 729872.10 | 4774016.65 | 23 | 25 | 25 | 25 | 22 | 25 | 14 | 6 | 0 | 0 |
| 350 | Non-Residential | Non-Participating | 720966.52 | 4773529.76 | 23 | 30 | 31 | 23 | 20 | 25 | 15 | 6 | 0 | 0 |
| 354 | Non-Residential | Non-Participating | 720720.85 | 4773796.44 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 6 | 0 | 0 |
| 348 | Non-Residential | Non-Participating | 720972.79 | 4773515.15 | 23 | 30 | 30 | 23 | 20 | 25 | 15 | 6 | 0 | 0 |
| 687 | Non-Residential | Non-Participating | 729055.60 | 4773722.46 | 23 | 28 | 28 | 25 | 21 | 25 | 14 | 3 | 0 | 0 |
| 98 | Non-Residential | Non-Participating | 726019.41 | 4772128.47 | 23 | 30 | 29 | 24 | 21 | 25 | 14 | 7 | 0 | 0 |
| 97 | Non-Residential | Non-Participating | 725970.83 | 4772128.09 | 23 | 30 | 29 | 24 | 21 | 25 | 14 | 6 | 0 | 0 |
| 914 | Non-Residential | Non-Participating | 729800.15 | 4773969.13 | 23 | 25 | 25 | 24 | 22 | 25 | 13 | 5 | 0 | 0 |
| 99 | Non-Residential | Non-Participating | 725992.24 | 4772099.64 | 23 | 29 | 29 | 24 | 20 | 24 | 14 | 6 | 0 | 0 |
| 531 | Non-Residential | Non-Participating | 721753.74 | 4773011.44 | 23 | 30 | 31 | 24 | 20 | 24 | 14 | 3 | 0 | 0 |
| 913 | Non-Residential | Non-Participating | 729731.55 | 4773919.91 | 23 | 25 | 25 | 24 | 22 | 24 | 13 | 4 | 0 | 0 |
| 96 | Non-Residential | Non-Participating | 725961.99 | 4772079.10 | 23 | 30 | 29 | 24 | 20 | 24 | 14 | 5 | 0 | 0 |
| 301 | Non-Residential | Non-Participating | 728756.34 | 4773625.69 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 698 | Non-Residential | Non-Participating | 729016.55 | 4773755.72 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 100 | Non-Residential | Non-Participating | 725987.40 | 4772062.89 | 22 | 29 | 29 | 24 | 20 | 24 | 14 | 5 | 0 | 0 |
| 101 | Non-Residential | Non-Participating | 725967.74 | 4772050.36 | 22 | 29 | 29 | 24 | 20 | 24 | 13 | 5 | 0 | 0 |
| 352 | Non-Residential | Non-Participating | 720913.01 | 4773481.56 | 22 | 29 | 29 | 23 | 19 | 24 | 14 | 5 | 0 | 0 |
| 693 | Non-Residential | Non-Participating | 729015.97 | 4773741.29 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 2 | 0 | 0 |
| 302 | Non-Residential | Non-Participating | 728708.41 | 4773516.20 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 660 | Non-Residential | Non-Participating | 729010.30 | 4773699.28 | 22 | 26 | 26 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |

**Table 7-4.1j: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Non-Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 636 | Non-Residential | Non-Participating | 729048.68 | 4773638.49 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 654 | Non-Residential | Non-Participating | 729003.61 | 4773686.48 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 304 | Non-Residential | Non-Participating | 728718.30 | 4773504.88 | 22 | 27 | 27 | 24 | 21 | 24 | 13 | 1 | 0 | 0 |
| 685 | Non-Residential | Non-Participating | 729010.81 | 4773721.26 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 658 | Non-Residential | Non-Participating | 728979.03 | 4773689.56 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 650 | Non-Residential | Non-Participating | 728999.99 | 4773652.11 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 767 | Non-Residential | Non-Participating | 728779.82 | 4773539.05 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 778 | Non-Residential | Non-Participating | 728996.12 | 4773628.79 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 1 | 0 | 0 |
| 773 | Non-Residential | Non-Participating | 728836.98 | 4773583.15 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 774 | Non-Residential | Non-Participating | 728992.57 | 4773609.81 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 763 | Non-Residential | Non-Participating | 728854.98 | 4773526.24 | 22 | 26 | 26 | 24 | 21 | 24 | 12 | 0 | 0 | 0 |
| 78 | Non-Residential | Non-Participating | 730685.44 | 4773898.92 | 22 | 24 | 24 | 23 | 20 | 23 | 12 | 4 | 0 | 0 |
| 882 | Non-Residential | Non-Participating | 727605.09 | 4772483.26 | 22 | 26 | 26 | 23 | 20 | 23 | 13 | 4 | 0 | 0 |
| 1049 | Non-Residential | Non-Participating | 726592.89 | 4772035.78 | 22 | 25 | 25 | 23 | 20 | 23 | 13 | 7 | 0 | 0 |
| 770 | Non-Residential | Non-Participating | 728865.63 | 4773554.18 | 22 | 26 | 26 | 24 | 21 | 23 | 12 | 0 | 0 | 0 |
| 81 | Non-Residential | Non-Participating | 730670.77 | 4773870.77 | 21 | 24 | 24 | 23 | 20 | 23 | 12 | 3 | 0 | 0 |
| 1055 | Non-Residential | Non-Participating | 726590.23 | 4771941.03 | 21 | 24 | 24 | 22 | 19 | 22 | 12 | 5 | 0 | 0 |
| 730 | Non-Residential | Non-Participating | 728954.76 | 4773350.89 | 21 | 25 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 104 | Non-Residential | Non-Participating | 725874.49 | 4771992.28 | 21 | 28 | 28 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 948 | Non-Residential | Non-Participating | 729898.72 | 4777865.12 | 20 | 24 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 1093 | Non-Residential | Non-Participating | 730481.72 | 4777718.89 | 20 | 23 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 949 | Non-Residential | Non-Participating | 729910.29 | 4777866.94 | 20 | 24 | 24 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 731 | Non-Residential | Non-Participating | 729185.25 | 4773356.62 | 20 | 24 | 25 | 23 | 20 | 22 | 10 | 0 | 0 | 0 |
| 105 | Non-Residential | Non-Participating | 725752.15 | 4771979.82 | 20 | 27 | 27 | 23 | 19 | 22 | 10 | 0 | 0 | 0 |
| 1056 | Non-Residential | Non-Participating | 726001.95 | 4778328.45 | 20 | 25 | 26 | 25 | 20 | 22 | 9 | 0 | 0 | 0 |
| 103 | Non-Residential | Non-Participating | 725840.13 | 4771984.51 | 20 | 27 | 27 | 23 | 19 | 22 | 9 | 0 | 0 | 0 |
| 1089 | Non-Residential | Non-Participating | 728360.59 | 4778409.63 | 20 | 25 | 25 | 23 | 19 | 22 | 11 | 1 | 0 | 0 |
| 1088 | Non-Residential | Non-Participating | 728024.17 | 4778414.01 | 20 | 24 | 25 | 24 | 19 | 21 | 10 | 1 | 0 | 0 |
| 951 | Non-Residential | Non-Participating | 729901.65 | 4777894.72 | 20 | 23 | 23 | 23 | 19 | 21 | 9 | 0 | 0 | 0 |
| 950 | Non-Residential | Non-Participating | 729864.64 | 4777891.64 | 20 | 22 | 23 | 23 | 19 | 21 | 9 | 0 | 0 | 0 |
| 106 | Non-Residential | Non-Participating | 725790.11 | 4771967.33 | 20 | 26 | 26 | 22 | 19 | 21 | 9 | 0 | 0 | 0 |
| 345 | Non-Residential | Non-Participating | 720830.09 | 4773392.48 | 19 | 26 | 26 | 21 | 18 | 21 | 10 | 0 | 0 | 0 |
| 344 | Non-Residential | Non-Participating | 720805.89 | 4773360.49 | 19 | 26 | 25 | 21 | 18 | 21 | 10 | 0 | 0 | 0 |
| 346 | Non-Residential | Non-Participating | 720962.54 | 4773366.79 | 19 | 27 | 27 | 22 | 18 | 21 | 8 | 0 | 0 | 0 |
| 108 | Non-Residential | Non-Participating | 725775.79 | 4771948.84 | 19 | 25 | 25 | 22 | 19 | 21 | 8 | 0 | 0 | 0 |
| 107 | Non-Residential | Non-Participating | 725866.44 | 4771963.17 | 19 | 24 | 24 | 22 | 19 | 20 | 7 | 0 | 0 | 0 |
| 342 | Non-Residential | Non-Participating | 720925.21 | 4773283.11 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 341 | Non-Residential | Non-Participating | 720868.33 | 4773286.94 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 335 | Non-Residential | Non-Participating | 720922.80 | 4773225.66 | 18 | 25 | 25 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 338 | Non-Residential | Non-Participating | 720870.94 | 4773247.90 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 339 | Non-Residential | Non-Participating | 720815.84 | 4773263.35 | 18 | 26 | 26 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 334 | Non-Residential | Non-Participating | 720868.96 | 4773220.33 | 18 | 26 | 25 | 21 | 17 | 20 | 7 | 0 | 0 | 0 |
| 207 | Non-Residential | Non-Participating | 732062.54 | 4777542.72 | 17 | 21 | 21 | 20 | 16 | 18 | 6 | 0 | 0 | 0 |
| 205 | Non-Residential | Non-Participating | 732089.81 | 4777539.71 | 16 | 21 | 21 | 20 | 16 | 18 | 6 | 0 | 0 | 0 |
| 1101 | Non-Residential | Non-Participating | 730689.50 | 4778581.59 | 15 | 19 | 19 | 20 | 16 | 17 | 3 | 0 | 0 | 0 |
| 1102 | Non-Residential | Non-Participating | 730701.72 | 4778604.19 | 15 | 19 | 19 | 20 | 16 | 17 | 3 | 0 | 0 | 0 |
| 577 | Non-Residential | Non-Participating | 730749.90 | 4778648.39 | 15 | 19 | 19 | 20 | 15 | 16 | 2 | 0 | 0 | 0 |
| 576 | Non-Residential | Non-Participating | 730577.26 | 4778724.35 | 15 | 19 | 19 | 20 | 15 | 16 | 2 | 0 | 0 | 0 |
| 578 | Non-Residential | Non-Participating | 730791.05 | 4778645.62 | 15 | 19 | 19 | 19 | 15 | 16 | 2 | 0 | 0 | 0 |
| 575 | Non-Residential | Non-Participating | 730640.33 | 4778734.63 | 15 | 19 | 19 | 19 | 15 | 16 | 2 | 0 | 0 | 0 |
| 579 | Non-Residential | Non-Participating | 730702.30 | 4778755.53 | 14 | 19 | 19 | 19 | 15 | 16 | 2 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Non-Residential Receptors | | | | | | | | | | | | | | |
| **435** | **Non-Residential** | **Non-Participating** | **722674.87** | **4775645.70** | **38** | **39** | **39** | **35** | **32** | **38** | **30** | **28** | **31** | **11** |
| **579** | **Non-Residential** | **Non-Participating** | **730702.30** | **4778755.53** | **14** | **19** | **19** | **19** | **15** | **16** | **2** | **0** | **0** | **0** |

**Table 7-4.1k: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Receptor ID [Non-Residential and Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 184 | Non-Residential | Participating | 730111.73 | 4777343.51 | 25 | 30 | 31 | 26 | 23 | 27 | 17 | 10 | 0 | 0 |
| 498 | Non-Residential | Participating | 726814.88 | 4773836.40 | 36 | 38 | 38 | 34 | 30 | 37 | 29 | 26 | 26 | 0 |
| 938 | Non-Residential | Participating | 726926.07 | 4776324.67 | 36 | 37 | 39 | 39 | 34 | 36 | 29 | 25 | 25 | 0 |
| 1080 | Non-Residential | Participating | 724869.88 | 4775669.06 | 37 | 38 | 39 | 35 | 31 | 37 | 29 | 26 | 28 | 1 |
| 1081 | Non-Residential | Participating | 724857.96 | 4775659.06 | 36 | 38 | 39 | 35 | 31 | 37 | 29 | 25 | 27 | 0 |
| 1082 | Non-Residential | Participating | 724878.49 | 4775658.72 | 37 | 38 | 39 | 35 | 31 | 37 | 29 | 26 | 28 | 1 |
| 1083 | Non-Residential | Participating | 724806.73 | 4775650.53 | 35 | 38 | 39 | 34 | 31 | 36 | 28 | 24 | 24 | 0 |
| 1084 | Non-Residential | Participating | 724877.03 | 4775649.14 | 37 | 38 | 39 | 35 | 31 | 37 | 29 | 26 | 27 | 0 |
| 1085 | Non-Residential | Participating | 724827.29 | 4775625.45 | 35 | 38 | 39 | 34 | 31 | 36 | 28 | 24 | 24 | 0 |
| 1140 | Non-Residential | Participating | 723691.65 | 4775419.85 | 35 | 37 | 36 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Non-Residential Receptors | | | | | | | | | | | | | | |
| **1082** | **Non-Residential** | **Participating** | **724878.49** | **4775658.72** | **37** | **38** | **39** | **35** | **31** | **37** | **29** | **26** | **28** | **1** |
| **184** | **Non-Residential** | **Participating** | **730111.73** | **4777343.51** | **25** | **30** | **31** | **26** | **23** | **27** | **17** | **10** | **0** | **0** |

**Table 7-4.1l: Total Project Sound Level Modeling Results (Leq (8-Hour)) at Discrete Points - Sorted by Sound Level [Non-Residential and Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Project Only Maximum 8-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1082 | Non-Residential | Participating | 724878.49 | 4775658.72 | 37 | 38 | 39 | 35 | 31 | 37 | 29 | 26 | 28 | 1 |
| 1080 | Non-Residential | Participating | 724869.88 | 4775669.06 | 37 | 38 | 39 | 35 | 31 | 37 | 29 | 26 | 28 | 1 |
| 1084 | Non-Residential | Participating | 724877.03 | 4775649.14 | 37 | 38 | 39 | 35 | 31 | 37 | 29 | 26 | 27 | 0 |
| 1081 | Non-Residential | Participating | 724857.96 | 4775659.06 | 36 | 38 | 39 | 35 | 31 | 37 | 29 | 25 | 27 | 0 |
| 938 | Non-Residential | Participating | 726926.07 | 4776324.67 | 36 | 37 | 39 | 39 | 34 | 36 | 29 | 25 | 25 | 0 |
| 498 | Non-Residential | Participating | 726814.88 | 4773836.40 | 36 | 38 | 38 | 34 | 30 | 37 | 29 | 26 | 26 | 0 |
| 1085 | Non-Residential | Participating | 724827.29 | 4775625.45 | 35 | 38 | 39 | 34 | 31 | 36 | 28 | 24 | 24 | 0 |
| 1083 | Non-Residential | Participating | 724806.73 | 4775650.53 | 35 | 38 | 39 | 34 | 31 | 36 | 28 | 24 | 24 | 0 |
| 1140 | Non-Residential | Participating | 723691.65 | 4775419.85 | 35 | 37 | 36 | 33 | 29 | 35 | 27 | 24 | 23 | 0 |
| 184 | Non-Residential | Participating | 730111.73 | 4777343.51 | 25 | 30 | 31 | 26 | 23 | 27 | 17 | 10 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Participating Non-Residential Receptors | | | | | | | | | | | | | | |
| **1082** | **Non-Residential** | **Participating** | **724878.49** | **4775658.72** | **37** | **38** | **39** | **35** | **31** | **37** | **29** | **26** | **28** | **1** |
| **184** | **Non-Residential** | **Participating** | **730111.73** | **4777343.51** | **25** | **30** | **31** | **26** | **23** | **27** | **17** | **10** | **0** | **0** |

# APPENDIX 7-A.5: COLLECTOR SUBSTATION MODELED SOUND LEVELS – LEQ (1-HOUR)

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1 | Residential | Non-Participating | 721444.24 | 4774819.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 2 | Residential | Non-Participating | 721250.90 | 4775573.07 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 4 | Residential | Non-Participating | 721358.43 | 4775598.79 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 5 | Residential | Non-Participating | 721438.57 | 4775223.58 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 6 | Residential | Non-Participating | 721445.68 | 4775152.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 8 | Residential | Non-Participating | 721417.80 | 4774766.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 9 | Residential | Non-Participating | 721348.94 | 4775222.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 10 | Residential | Non-Participating | 721374.17 | 4774839.15 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 12 | Residential | Non-Participating | 721436.97 | 4774870.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 14 | Residential | Non-Participating | 721239.83 | 4775005.35 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 15 | Residential | Non-Participating | 721398.19 | 4775073.21 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 16 | Residential | Non-Participating | 720754.57 | 4775114.67 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 17 | Residential | Non-Participating | 720947.49 | 4775125.92 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 19 | Residential | Non-Participating | 721236.82 | 4775148.32 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 21 | Residential | Non-Participating | 721298.18 | 4775150.69 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 22 | Residential | Non-Participating | 721375.37 | 4775152.74 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 23 | Residential | Non-Participating | 721496.48 | 4775161.42 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 27 | Residential | Non-Participating | 721025.31 | 4775183.76 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 29 | Residential | Non-Participating | 721418.14 | 4775276.00 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 31 | Residential | Non-Participating | 721342.77 | 4775305.43 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 33 | Residential | Non-Participating | 721402.66 | 4775323.35 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 35 | Residential | Non-Participating | 721342.73 | 4775335.40 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 38 | Residential | Non-Participating | 721388.89 | 4775368.01 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 41 | Residential | Non-Participating | 721377.25 | 4775438.39 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 42 | Residential | Non-Participating | 721300.63 | 4775439.01 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 45 | Residential | Non-Participating | 721350.75 | 4775475.19 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 46 | Residential | Non-Participating | 721357.27 | 4775527.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 49 | Residential | Non-Participating | 729873.29 | 4775778.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 50 | Residential | Non-Participating | 729939.14 | 4775783.38 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 51 | Residential | Non-Participating | 729795.23 | 4775782.85 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 52 | Residential | Non-Participating | 729842.04 | 4775784.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 53 | Residential | Non-Participating | 729603.31 | 4775779.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 54 | Residential | Non-Participating | 730075.76 | 4775797.65 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 55 | Residential | Non-Participating | 730365.70 | 4775802.84 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 58 | Residential | Non-Participating | 730016.13 | 4775783.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 66 | Residential | Non-Participating | 730145.08 | 4775833.94 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 69 | Residential | Non-Participating | 731081.44 | 4773946.96 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 70 | Residential | Non-Participating | 730996.74 | 4773988.38 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 72 | Residential | Non-Participating | 730629.86 | 4773989.17 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 73 | Residential | Non-Participating | 730563.48 | 4773953.39 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 74 | Residential | Non-Participating | 731225.66 | 4773949.56 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 75 | Residential | Non-Participating | 730739.14 | 4773912.10 | 4 | 9 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 76 | Residential | Non-Participating | 731148.87 | 4773927.79 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 82 | Residential | Non-Participating | 725816.16 | 4771930.09 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 83 | Residential | Non-Participating | 725514.51 | 4771917.72 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 84 | Residential | Non-Participating | 725714.85 | 4771919.33 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 85 | Residential | Non-Participating | 725657.11 | 4771913.93 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 87 | Residential | Non-Participating | 725769.99 | 4771851.99 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 88 | Residential | Non-Participating | 725809.57 | 4771853.60 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 89 | Residential | Non-Participating | 725611.13 | 4771852.51 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 90 | Residential | Non-Participating | 726091.65 | 4771857.51 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 94 | Residential | Non-Participating | 726095.72 | 4771800.34 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 95 | Residential | Non-Participating | 726042.91 | 4771681.08 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 102 | Residential | Non-Participating | 725966.27 | 4772022.81 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 112 | Residential | Non-Participating | 722372.96 | 4775085.15 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 113 | Residential | Non-Participating | 722105.32 | 4775079.25 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 114 | Residential | Non-Participating | 722025.70 | 4775078.79 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 115 | Residential | Non-Participating | 722357.20 | 4775122.97 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 116 | Residential | Non-Participating | 721750.54 | 4775111.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 117 | Residential | Non-Participating | 721667.54 | 4775158.55 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 118 | Residential | Non-Participating | 721885.31 | 4775169.22 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 119 | Residential | Non-Participating | 722368.27 | 4775189.34 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 120 | Residential | Non-Participating | 721630.11 | 4775174.75 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 121 | Residential | Non-Participating | 721928.80 | 4775199.82 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 124 | Residential | Non-Participating | 722281.08 | 4775095.14 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 126 | Residential | Non-Participating | 721155.40 | 4774200.75 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 127 | Residential | Non-Participating | 721394.91 | 4774690.71 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 129 | Residential | Non-Participating | 721281.00 | 4774300.22 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 132 | Residential | Non-Participating | 721278.64 | 4774584.27 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 136 | Residential | Non-Participating | 721047.53 | 4774140.06 | 4 | 15 | 20 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 140 | Residential | Non-Participating | 732052.47 | 4774010.73 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 141 | Residential | Non-Participating | 731884.92 | 4774007.98 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 142 | Residential | Non-Participating | 732057.81 | 4774082.58 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 143 | Residential | Non-Participating | 732187.46 | 4774094.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 145 | Residential | Non-Participating | 731778.43 | 4774143.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 147 | Residential | Non-Participating | 724194.25 | 4777091.81 | 16 | 22 | 28 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 150 | Residential | Non-Participating | 723656.49 | 4773370.52 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 151 | Residential | Non-Participating | 723726.55 | 4773352.67 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 153 | Residential | Non-Participating | 724080.78 | 4773322.69 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 155 | Residential | Non-Participating | 723487.51 | 4773282.37 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 156 | Residential | Non-Participating | 723430.22 | 4773252.51 | 10 | 20 | 26 | 20 | 12 | 10 | 0 | 0 | 0 | 0 |
| 157 | Residential | Non-Participating | 724139.27 | 4773265.70 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 159 | Residential | Non-Participating | 723669.75 | 4773152.78 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 160 | Residential | Non-Participating | 723679.00 | 4773047.54 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 162 | Residential | Non-Participating | 724071.22 | 4773625.65 | 13 | 22 | 27 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 163 | Residential | Non-Participating | 724068.17 | 4773563.24 | 13 | 22 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 166 | Residential | Non-Participating | 723958.72 | 4773505.15 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 167 | Residential | Non-Participating | 723835.19 | 4773501.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 168 | Residential | Non-Participating | 723675.05 | 4773455.48 | 9 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 175 | Residential | Non-Participating | 729710.98 | 4776892.58 | 14 | 22 | 28 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 178 | Residential | Non-Participating | 729758.86 | 4776841.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 179 | Residential | Non-Participating | 730341.31 | 4777505.17 | 11 | 21 | 26 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 180 | Residential | Non-Participating | 730332.85 | 4777455.33 | 11 | 21 | 26 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 181 | Residential | Non-Participating | 730419.48 | 4777448.31 | 11 | 21 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 182 | Residential | Non-Participating | 730397.07 | 4777391.97 | 11 | 21 | 26 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 183 | Residential | Non-Participating | 730282.34 | 4777353.86 | 11 | 21 | 27 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 186 | Residential | Non-Participating | 730068.30 | 4777289.94 | 12 | 21 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 187 | Residential | Non-Participating | 730189.21 | 4777278.94 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 189 | Residential | Non-Participating | 729728.59 | 4777228.39 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 190 | Residential | Non-Participating | 729710.66 | 4777219.08 | 14 | 22 | 28 | 22 | 15 | 14 | 4 | 0 | 0 | 0 |
| 192 | Residential | Non-Participating | 730047.50 | 4777204.44 | 12 | 21 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 196 | Residential | Non-Participating | 729940.00 | 4777038.55 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 197 | Residential | Non-Participating | 729792.79 | 4776992.77 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 204 | Residential | Non-Participating | 731561.89 | 4777454.80 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 208 | Residential | Non-Participating | 731942.16 | 4777535.65 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 209 | Residential | Non-Participating | 726577.69 | 4773017.75 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 211 | Residential | Non-Participating | 726570.29 | 4772515.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 212 | Residential | Non-Participating | 726635.52 | 4772650.59 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 213 | Residential | Non-Participating | 726490.56 | 4772612.30 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 215 | Residential | Non-Participating | 726574.02 | 4772408.25 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 216 | Residential | Non-Participating | 721203.78 | 4776139.38 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 218 | Residential | Non-Participating | 721232.73 | 4776003.54 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 219 | Residential | Non-Participating | 721253.19 | 4775886.45 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 220 | Residential | Non-Participating | 721206.61 | 4775869.91 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 221 | Residential | Non-Participating | 721281.29 | 4775855.13 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 222 | Residential | Non-Participating | 721215.85 | 4775832.62 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 226 | Residential | Non-Participating | 728200.73 | 4773243.88 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 229 | Residential | Non-Participating | 727926.92 | 4773165.93 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 230 | Residential | Non-Participating | 728027.10 | 4773175.59 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 231 | Residential | Non-Participating | 728315.16 | 4773184.88 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 232 | Residential | Non-Participating | 727991.09 | 4773175.48 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 233 | Residential | Non-Participating | 728391.11 | 4773189.73 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 234 | Residential | Non-Participating | 728354.93 | 4773185.77 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 236 | Residential | Non-Participating | 727942.13 | 4773217.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 237 | Residential | Non-Participating | 727894.54 | 4773215.39 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 238 | Residential | Non-Participating | 727995.59 | 4773235.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 239 | Residential | Non-Participating | 728097.66 | 4773244.28 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 241 | Residential | Non-Participating | 727938.57 | 4773896.99 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 245 | Residential | Non-Participating | 727941.82 | 4773829.14 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 246 | Residential | Non-Participating | 728759.34 | 4773854.42 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 247 | Residential | Non-Participating | 728736.11 | 4773849.86 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 248 | Residential | Non-Participating | 728707.21 | 4773846.95 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 250 | Residential | Non-Participating | 728650.16 | 4773838.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 251 | Residential | Non-Participating | 728677.01 | 4773842.04 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 252 | Residential | Non-Participating | 728595.08 | 4773831.83 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 253 | Residential | Non-Participating | 728566.17 | 4773824.45 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 255 | Residential | Non-Participating | 728045.32 | 4773810.50 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 256 | Residential | Non-Participating | 728122.41 | 4773811.55 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 258 | Residential | Non-Participating | 728539.39 | 4773820.25 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 259 | Residential | Non-Participating | 728093.92 | 4773807.33 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 260 | Residential | Non-Participating | 728194.37 | 4773807.03 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 261 | Residential | Non-Participating | 728381.69 | 4773806.78 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 262 | Residential | Non-Participating | 728319.88 | 4773805.84 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 263 | Residential | Non-Participating | 728488.66 | 4773811.49 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 264 | Residential | Non-Participating | 728409.47 | 4773804.84 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 266 | Residential | Non-Participating | 728696.53 | 4773796.53 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 267 | Residential | Non-Participating | 728747.55 | 4773802.94 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 268 | Residential | Non-Participating | 728666.23 | 4773797.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 269 | Residential | Non-Participating | 728722.77 | 4773798.50 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 270 | Residential | Non-Participating | 728651.43 | 4773791.41 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 271 | Residential | Non-Participating | 728619.33 | 4773789.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 272 | Residential | Non-Participating | 728594.10 | 4773787.29 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 273 | Residential | Non-Participating | 728563.13 | 4773784.48 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 276 | Residential | Non-Participating | 728476.47 | 4773775.26 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 281 | Residential | Non-Participating | 728530.84 | 4773763.16 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 282 | Residential | Non-Participating | 728402.85 | 4773754.82 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 284 | Residential | Non-Participating | 728385.09 | 4773738.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 285 | Residential | Non-Participating | 728628.02 | 4773740.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 286 | Residential | Non-Participating | 728467.97 | 4773737.61 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 287 | Residential | Non-Participating | 728515.52 | 4773726.20 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 289 | Residential | Non-Participating | 728747.07 | 4773729.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 290 | Residential | Non-Participating | 728664.41 | 4773719.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 292 | Residential | Non-Participating | 728691.05 | 4773715.22 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 293 | Residential | Non-Participating | 728677.45 | 4773716.32 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 296 | Residential | Non-Participating | 728646.09 | 4773685.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 298 | Residential | Non-Participating | 728677.71 | 4773672.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 299 | Residential | Non-Participating | 728712.58 | 4773661.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 303 | Residential | Non-Participating | 728695.95 | 4773505.28 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 306 | Residential | Non-Participating | 728271.85 | 4773304.24 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 307 | Residential | Non-Participating | 728146.07 | 4773248.45 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 309 | Residential | Non-Participating | 728235.69 | 4773254.34 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 310 | Residential | Non-Participating | 730099.82 | 4774185.32 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 312 | Residential | Non-Participating | 730073.71 | 4774167.28 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 313 | Residential | Non-Participating | 729885.93 | 4774161.33 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 314 | Residential | Non-Participating | 729948.86 | 4774191.54 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 316 | Residential | Non-Participating | 730022.97 | 4774219.17 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 317 | Residential | Non-Participating | 730197.71 | 4774255.36 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 318 | Residential | Non-Participating | 730093.87 | 4774271.95 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 320 | Residential | Non-Participating | 730292.58 | 4774295.99 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 321 | Residential | Non-Participating | 730166.96 | 4774304.58 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 326 | Residential | Non-Participating | 730431.30 | 4774406.08 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 327 | Residential | Non-Participating | 730202.76 | 4774395.60 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 328 | Residential | Non-Participating | 730331.04 | 4774403.28 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 331 | Residential | Non-Participating | 730477.03 | 4774453.11 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 332 | Residential | Non-Participating | 721609.74 | 4773171.40 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 337 | Residential | Non-Participating | 720805.19 | 4773233.34 | 2 | 14 | 19 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 340 | Residential | Non-Participating | 720799.40 | 4773295.74 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 343 | Residential | Non-Participating | 720725.08 | 4773343.58 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 357 | Residential | Non-Participating | 720962.68 | 4773061.00 | 0 | 6 | 11 | 12 | 2 | 0 | 0 | 0 | 0 | 0 |
| 358 | Residential | Non-Participating | 720901.30 | 4773073.10 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 359 | Residential | Non-Participating | 720844.87 | 4773066.72 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 362 | Residential | Non-Participating | 721404.49 | 4773146.11 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 364 | Residential | Non-Participating | 721445.82 | 4773150.31 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 365 | Residential | Non-Participating | 721324.33 | 4773144.58 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 366 | Residential | Non-Participating | 721500.35 | 4773154.81 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 368 | Residential | Non-Participating | 721533.78 | 4773159.83 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 371 | Residential | Non-Participating | 720754.81 | 4773151.13 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 372 | Residential | Non-Participating | 729283.10 | 4774405.12 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 373 | Residential | Non-Participating | 729169.12 | 4774409.14 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 374 | Residential | Non-Participating | 729197.60 | 4774518.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 375 | Residential | Non-Participating | 729214.13 | 4774594.70 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 376 | Residential | Non-Participating | 729291.50 | 4774638.73 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 380 | Residential | Non-Participating | 729202.42 | 4774793.43 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 381 | Residential | Non-Participating | 729289.10 | 4774862.65 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 383 | Residential | Non-Participating | 729284.04 | 4774898.68 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 385 | Residential | Non-Participating | 729120.27 | 4774107.71 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 387 | Residential | Non-Participating | 729139.66 | 4774149.00 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 390 | Residential | Non-Participating | 729171.45 | 4774265.89 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 391 | Residential | Non-Participating | 729124.31 | 4774296.74 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 392 | Residential | Non-Participating | 728958.10 | 4774322.18 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 393 | Residential | Non-Participating | 729202.17 | 4774357.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 395 | Residential | Non-Participating | 729149.53 | 4774376.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 399 | Residential | Non-Participating | 732457.26 | 4775495.72 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 400 | Residential | Non-Participating | 732386.71 | 4775423.45 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 401 | Residential | Non-Participating | 732442.88 | 4775400.98 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 403 | Residential | Non-Participating | 732426.96 | 4775364.97 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 405 | Residential | Non-Participating | 726469.31 | 4774847.53 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 406 | Residential | Non-Participating | 725376.78 | 4773605.51 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 410 | Residential | Non-Participating | 725730.08 | 4773652.04 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 411 | Residential | Non-Participating | 725801.60 | 4773667.29 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 412 | Residential | Non-Participating | 725923.56 | 4773684.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 413 | Residential | Non-Participating | 725519.84 | 4773684.95 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 414 | Residential | Non-Participating | 725564.14 | 4773712.43 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 415 | Residential | Non-Participating | 725807.21 | 4773736.35 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 416 | Residential | Non-Participating | 725907.67 | 4773755.90 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 417 | Residential | Non-Participating | 725996.58 | 4773793.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 418 | Residential | Non-Participating | 725684.35 | 4773634.06 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 419 | Residential | Non-Participating | 726514.90 | 4774178.67 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 421 | Residential | Non-Participating | 731217.87 | 4774599.79 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 422 | Residential | Non-Participating | 731132.41 | 4774605.26 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 424 | Residential | Non-Participating | 722922.89 | 4775148.12 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 426 | Residential | Non-Participating | 722620.69 | 4775203.20 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 428 | Residential | Non-Participating | 722939.56 | 4775217.32 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 429 | Residential | Non-Participating | 722583.77 | 4775206.59 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 434 | Residential | Non-Participating | 722896.41 | 4775222.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 438 | Residential | Non-Participating | 729643.61 | 4776671.50 | 15 | 23 | 28 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 439 | Residential | Non-Participating | 729570.88 | 4776598.02 | 15 | 23 | 29 | 23 | 16 | 15 | 6 | 0 | 0 | 0 |
| 441 | Residential | Non-Participating | 728380.62 | 4774794.38 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 443 | Residential | Non-Participating | 728476.10 | 4774926.24 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 444 | Residential | Non-Participating | 728141.22 | 4773158.51 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 445 | Residential | Non-Participating | 728079.16 | 4773163.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 446 | Residential | Non-Participating | 728281.13 | 4773159.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 451 | Residential | Non-Participating | 728356.64 | 4772472.10 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 452 | Residential | Non-Participating | 728290.45 | 4772463.79 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 453 | Residential | Non-Participating | 728097.71 | 4772454.49 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 454 | Residential | Non-Participating | 728154.49 | 4772456.41 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 456 | Residential | Non-Participating | 731052.54 | 4774154.81 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 458 | Residential | Non-Participating | 731034.22 | 4774322.34 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 459 | Residential | Non-Participating | 731025.02 | 4774380.84 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 460 | Residential | Non-Participating | 731243.37 | 4774403.63 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 462 | Residential | Non-Participating | 731257.63 | 4774430.58 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 464 | Residential | Non-Participating | 731065.40 | 4774458.36 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 465 | Residential | Non-Participating | 730540.74 | 4774482.22 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 466 | Residential | Non-Participating | 730574.06 | 4774504.41 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 468 | Residential | Non-Participating | 730976.46 | 4774609.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 469 | Residential | Non-Participating | 731287.34 | 4774632.13 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 471 | Residential | Non-Participating | 730671.92 | 4774630.30 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 473 | Residential | Non-Participating | 731345.22 | 4774667.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 474 | Residential | Non-Participating | 730798.58 | 4774651.01 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 476 | Residential | Non-Participating | 730850.15 | 4774664.26 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 479 | Residential | Non-Participating | 731190.60 | 4774696.78 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 480 | Residential | Non-Participating | 731233.86 | 4774711.91 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 484 | Residential | Non-Participating | 731410.23 | 4774783.16 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 485 | Residential | Non-Participating | 731355.45 | 4774819.89 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 487 | Residential | Non-Participating | 731400.62 | 4774848.49 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 490 | Residential | Non-Participating | 725481.55 | 4775646.09 | 26 | 31 | 37 | 32 | 26 | 26 | 21 | 9 | 0 | 0 |
| 493 | Residential | Non-Participating | 725609.06 | 4775531.37 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 494 | Residential | Non-Participating | 726000.27 | 4775543.61 | 30 | 34 | 39 | 35 | 29 | 30 | 25 | 15 | 0 | 0 |
| 496 | Residential | Non-Participating | 725155.47 | 4775492.08 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 497 | Residential | Non-Participating | 726499.43 | 4773815.63 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 499 | Residential | Non-Participating | 726578.49 | 4773124.46 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 500 | Residential | Non-Participating | 726740.59 | 4773733.14 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 501 | Residential | Non-Participating | 726738.21 | 4773745.37 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 502 | Residential | Non-Participating | 726811.30 | 4773727.78 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 503 | Residential | Non-Participating | 726884.80 | 4773761.13 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 504 | Residential | Non-Participating | 726556.95 | 4773805.94 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 505 | Residential | Non-Participating | 728404.50 | 4776021.03 | 21 | 27 | 33 | 28 | 22 | 21 | 14 | 0 | 0 | 0 |
| 508 | Residential | Non-Participating | 728471.87 | 4776377.38 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 510 | Residential | Non-Participating | 728475.58 | 4776335.38 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 516 | Residential | Non-Participating | 731141.44 | 4775781.92 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 517 | Residential | Non-Participating | 730784.71 | 4775773.60 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 518 | Residential | Non-Participating | 731188.19 | 4775834.08 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 520 | Residential | Non-Participating | 725568.18 | 4776896.20 | 27 | 31 | 37 | 32 | 26 | 27 | 21 | 9 | 0 | 0 |
| 522 | Residential | Non-Participating | 725799.55 | 4776942.37 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 12 | 0 | 0 |
| 525 | Residential | Non-Participating | 725659.02 | 4776858.18 | 28 | 32 | 38 | 33 | 27 | 28 | 22 | 11 | 0 | 0 |
| 526 | Residential | Non-Participating | 725694.41 | 4776864.47 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 527 | Residential | Non-Participating | 725745.37 | 4776873.27 | 28 | 32 | 38 | 33 | 28 | 28 | 23 | 12 | 0 | 0 |
| 528 | Residential | Non-Participating | 722308.67 | 4773252.42 | 7 | 19 | 24 | 18 | 10 | 6 | 0 | 0 | 0 | 0 |
| 530 | Residential | Non-Participating | 722286.55 | 4772992.47 | 7 | 18 | 24 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 533 | Residential | Non-Participating | 722488.87 | 4773133.79 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 535 | Residential | Non-Participating | 721951.02 | 4773179.47 | 5 | 15 | 21 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 536 | Residential | Non-Participating | 721810.59 | 4773174.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 537 | Residential | Non-Participating | 721888.23 | 4773225.02 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 539 | Residential | Non-Participating | 729247.86 | 4776115.16 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 542 | Residential | Non-Participating | 729135.55 | 4776074.64 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 543 | Residential | Non-Participating | 729223.99 | 4776058.44 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 546 | Residential | Non-Participating | 729179.94 | 4775742.74 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 548 | Residential | Non-Participating | 729299.49 | 4775753.64 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 549 | Residential | Non-Participating | 729582.03 | 4775768.26 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 550 | Residential | Non-Participating | 729133.41 | 4775868.04 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 552 | Residential | Non-Participating | 726869.96 | 4776294.50 | 39 | 40 | 46 | 44 | 37 | 38 | 34 | 27 | 14 | 0 |
| 553 | Residential | Non-Participating | 726795.81 | 4775870.01 | 37 | 39 | 45 | 42 | 35 | 36 | 31 | 24 | 9 | 0 |
| 554 | Residential | Non-Participating | 729165.74 | 4775920.62 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 557 | Residential | Non-Participating | 729532.60 | 4776634.43 | 15 | 23 | 29 | 23 | 16 | 15 | 6 | 0 | 0 | 0 |
| 560 | Residential | Non-Participating | 729480.90 | 4776581.53 | 15 | 23 | 29 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 565 | Residential | Non-Participating | 729416.96 | 4776511.63 | 16 | 23 | 29 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 569 | Residential | Non-Participating | 729418.72 | 4776407.16 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 570 | Residential | Non-Participating | 729329.21 | 4776384.95 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 572 | Residential | Non-Participating | 729296.32 | 4776304.42 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 574 | Residential | Non-Participating | 729198.60 | 4775966.03 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 583 | Residential | Non-Participating | 729065.00 | 4775607.16 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 586 | Residential | Non-Participating | 729054.70 | 4775670.07 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 588 | Residential | Non-Participating | 729105.72 | 4775701.33 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 589 | Residential | Non-Participating | 729277.00 | 4775709.66 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 591 | Residential | Non-Participating | 729051.03 | 4775832.73 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 595 | Residential | Non-Participating | 729244.54 | 4775762.90 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 596 | Residential | Non-Participating | 729137.86 | 4775072.56 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 597 | Residential | Non-Participating | 729246.56 | 4775114.00 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 603 | Residential | Non-Participating | 732329.11 | 4776044.45 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 604 | Residential | Non-Participating | 728989.14 | 4773571.77 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 605 | Residential | Non-Participating | 728803.87 | 4773860.70 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 606 | Residential | Non-Participating | 728832.65 | 4773864.22 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 608 | Residential | Non-Participating | 728858.52 | 4773869.05 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 609 | Residential | Non-Participating | 729589.05 | 4773896.81 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 612 | Residential | Non-Participating | 728909.84 | 4773878.32 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 613 | Residential | Non-Participating | 728975.13 | 4773880.74 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 615 | Residential | Non-Participating | 729077.58 | 4773891.93 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 616 | Residential | Non-Participating | 728943.97 | 4773891.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 618 | Residential | Non-Participating | 729625.51 | 4773918.33 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 619 | Residential | Non-Participating | 729086.47 | 4773908.47 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 621 | Residential | Non-Participating | 729037.87 | 4773918.07 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 622 | Residential | Non-Participating | 729086.06 | 4773932.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 623 | Residential | Non-Participating | 729040.61 | 4773944.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 624 | Residential | Non-Participating | 729091.42 | 4773955.31 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 625 | Residential | Non-Participating | 729047.55 | 4773967.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 626 | Residential | Non-Participating | 729092.21 | 4773975.11 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 629 | Residential | Non-Participating | 729097.83 | 4773998.72 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 630 | Residential | Non-Participating | 729047.33 | 4773996.87 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 631 | Residential | Non-Participating | 729048.32 | 4774060.84 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 634 | Residential | Non-Participating | 729142.92 | 4773643.19 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 635 | Residential | Non-Participating | 728899.71 | 4773642.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 637 | Residential | Non-Participating | 729276.07 | 4773657.78 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 638 | Residential | Non-Participating | 729260.10 | 4773654.44 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 639 | Residential | Non-Participating | 728924.81 | 4773640.56 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 640 | Residential | Non-Participating | 728867.69 | 4773640.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 641 | Residential | Non-Participating | 728845.67 | 4773641.62 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 642 | Residential | Non-Participating | 729315.21 | 4773660.73 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 643 | Residential | Non-Participating | 729294.79 | 4773659.93 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 646 | Residential | Non-Participating | 729169.15 | 4773655.06 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 647 | Residential | Non-Participating | 729181.55 | 4773653.73 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 648 | Residential | Non-Participating | 729208.10 | 4773657.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 649 | Residential | Non-Participating | 728951.84 | 4773650.59 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 651 | Residential | Non-Participating | 728793.10 | 4773649.35 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 652 | Residential | Non-Participating | 729381.25 | 4773674.99 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 653 | Residential | Non-Participating | 729450.77 | 4773697.75 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 655 | Residential | Non-Participating | 728825.80 | 4773684.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 656 | Residential | Non-Participating | 728899.46 | 4773689.13 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 657 | Residential | Non-Participating | 728874.48 | 4773687.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 659 | Residential | Non-Participating | 729259.92 | 4773705.81 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 661 | Residential | Non-Participating | 728782.08 | 4773690.84 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 662 | Residential | Non-Participating | 729218.06 | 4773705.71 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 663 | Residential | Non-Participating | 729321.59 | 4773709.95 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 664 | Residential | Non-Participating | 728916.86 | 4773691.08 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 665 | Residential | Non-Participating | 729349.57 | 4773711.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 666 | Residential | Non-Participating | 729295.82 | 4773707.43 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 667 | Residential | Non-Participating | 728939.24 | 4773695.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 668 | Residential | Non-Participating | 729160.55 | 4773704.67 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 669 | Residential | Non-Participating | 728853.62 | 4773689.97 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 670 | Residential | Non-Participating | 729190.90 | 4773703.60 | 7 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 671 | Residential | Non-Participating | 729365.77 | 4773714.16 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 672 | Residential | Non-Participating | 729237.34 | 4773710.50 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 676 | Residential | Non-Participating | 729105.68 | 4773709.52 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 683 | Residential | Non-Participating | 729394.54 | 4773732.63 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 688 | Residential | Non-Participating | 729484.10 | 4773734.67 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 692 | Residential | Non-Participating | 729053.94 | 4773740.52 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 694 | Residential | Non-Participating | 729055.48 | 4773751.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 695 | Residential | Non-Participating | 729511.74 | 4773754.86 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 696 | Residential | Non-Participating | 729432.15 | 4773764.03 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 699 | Residential | Non-Participating | 729450.82 | 4773777.19 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 701 | Residential | Non-Participating | 729472.00 | 4773792.75 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 702 | Residential | Non-Participating | 729071.42 | 4773779.91 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 705 | Residential | Non-Participating | 729580.75 | 4773800.25 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 707 | Residential | Non-Participating | 729499.39 | 4773808.08 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 710 | Residential | Non-Participating | 729625.49 | 4773823.63 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 711 | Residential | Non-Participating | 728774.18 | 4773799.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 712 | Residential | Non-Participating | 728796.08 | 4773802.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 713 | Residential | Non-Participating | 728922.42 | 4773806.03 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 714 | Residential | Non-Participating | 728832.33 | 4773807.11 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 716 | Residential | Non-Participating | 729065.57 | 4773815.10 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 717 | Residential | Non-Participating | 728860.19 | 4773810.77 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 718 | Residential | Non-Participating | 729019.22 | 4773815.07 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 720 | Residential | Non-Participating | 729534.81 | 4773842.53 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 721 | Residential | Non-Participating | 729073.05 | 4773845.92 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 722 | Residential | Non-Participating | 729561.15 | 4773864.29 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 724 | Residential | Non-Participating | 729074.07 | 4773862.04 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 725 | Residential | Non-Participating | 729041.07 | 4773472.97 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 726 | Residential | Non-Participating | 728957.79 | 4773320.44 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 728 | Residential | Non-Participating | 729009.02 | 4773329.55 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 729 | Residential | Non-Participating | 729019.73 | 4773353.67 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 732 | Residential | Non-Participating | 728964.12 | 4773374.51 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 733 | Residential | Non-Participating | 728851.33 | 4773352.34 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 734 | Residential | Non-Participating | 729020.09 | 4773381.49 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 736 | Residential | Non-Participating | 728960.68 | 4773389.64 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 737 | Residential | Non-Participating | 729017.28 | 4773400.98 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 738 | Residential | Non-Participating | 728965.79 | 4773406.71 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 739 | Residential | Non-Participating | 728969.30 | 4773422.14 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 740 | Residential | Non-Participating | 729021.77 | 4773437.08 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 745 | Residential | Non-Participating | 728972.77 | 4773448.23 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 747 | Residential | Non-Participating | 729022.67 | 4773453.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 751 | Residential | Non-Participating | 728899.62 | 4773472.19 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 752 | Residential | Non-Participating | 728870.34 | 4773471.45 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 753 | Residential | Non-Participating | 728843.53 | 4773473.25 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 754 | Residential | Non-Participating | 728974.60 | 4773478.81 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 755 | Residential | Non-Participating | 728922.95 | 4773477.21 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 756 | Residential | Non-Participating | 729030.53 | 4773490.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 758 | Residential | Non-Participating | 729030.73 | 4773514.45 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 759 | Residential | Non-Participating | 728914.65 | 4773516.48 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 762 | Residential | Non-Participating | 728979.88 | 4773527.40 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 765 | Residential | Non-Participating | 729039.88 | 4773541.14 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 766 | Residential | Non-Participating | 728987.62 | 4773549.13 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 768 | Residential | Non-Participating | 728921.46 | 4773546.76 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 769 | Residential | Non-Participating | 729039.12 | 4773565.17 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 771 | Residential | Non-Participating | 728778.59 | 4773855.78 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 772 | Residential | Non-Participating | 729039.12 | 4773583.37 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 780 | Residential | Non-Participating | 729242.79 | 4773656.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 781 | Residential | Non-Participating | 729455.01 | 4777793.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 782 | Residential | Non-Participating | 729358.86 | 4777674.71 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 786 | Residential | Non-Participating | 729347.61 | 4777805.09 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 787 | Residential | Non-Participating | 732705.58 | 4776616.09 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 791 | Residential | Non-Participating | 724404.54 | 4774343.97 | 16 | 24 | 29 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 792 | Residential | Non-Participating | 726264.37 | 4777056.36 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |
| 793 | Residential | Non-Participating | 726819.44 | 4776889.60 | 32 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 795 | Residential | Non-Participating | 726791.37 | 4777222.00 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 796 | Residential | Non-Participating | 726523.80 | 4777148.13 | 29 | 33 | 39 | 34 | 29 | 29 | 24 | 13 | 0 | 0 |
| 800 | Residential | Non-Participating | 726341.01 | 4777087.79 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 801 | Residential | Non-Participating | 727758.11 | 4777459.63 | 17 | 17 | 23 | 25 | 19 | 17 | 8 | 0 | 0 | 0 |
| 803 | Residential | Non-Participating | 727914.34 | 4777440.42 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 804 | Residential | Non-Participating | 728010.95 | 4777435.68 | 19 | 24 | 30 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 806 | Residential | Non-Participating | 728326.02 | 4777429.36 | 19 | 26 | 32 | 26 | 20 | 20 | 12 | 0 | 0 | 0 |
| 807 | Residential | Non-Participating | 728401.19 | 4777423.79 | 19 | 26 | 32 | 26 | 20 | 19 | 11 | 0 | 0 | 0 |
| 809 | Residential | Non-Participating | 728423.69 | 4777411.44 | 19 | 26 | 31 | 26 | 20 | 19 | 11 | 0 | 0 | 0 |
| 811 | Residential | Non-Participating | 728104.85 | 4777386.29 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 812 | Residential | Non-Participating | 728407.33 | 4777381.45 | 19 | 26 | 32 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 813 | Residential | Non-Participating | 728412.48 | 4777332.87 | 19 | 26 | 32 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 815 | Residential | Non-Participating | 728267.18 | 4777256.79 | 20 | 27 | 32 | 27 | 21 | 20 | 13 | 0 | 0 | 0 |
| 816 | Residential | Non-Participating | 728415.93 | 4777190.55 | 20 | 26 | 32 | 26 | 20 | 20 | 12 | 0 | 0 | 0 |
| 818 | Residential | Non-Participating | 728360.22 | 4776876.53 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 820 | Residential | Non-Participating | 728376.17 | 4776814.25 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 824 | Residential | Non-Participating | 728342.73 | 4777577.48 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 825 | Residential | Non-Participating | 727894.73 | 4777525.91 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 828 | Residential | Non-Participating | 728192.45 | 4777492.34 | 20 | 26 | 32 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 829 | Residential | Non-Participating | 728257.16 | 4777490.59 | 20 | 26 | 32 | 26 | 20 | 20 | 12 | 0 | 0 | 0 |
| 832 | Residential | Non-Participating | 728575.25 | 4775727.93 | 15 | 16 | 22 | 23 | 17 | 15 | 5 | 0 | 0 | 0 |
| 833 | Residential | Non-Participating | 728211.67 | 4775698.67 | 22 | 28 | 34 | 28 | 22 | 22 | 15 | 0 | 0 | 0 |
| 834 | Residential | Non-Participating | 727838.78 | 4775509.90 | 19 | 19 | 25 | 26 | 20 | 19 | 10 | 0 | 0 | 0 |
| 835 | Residential | Non-Participating | 728639.12 | 4774987.30 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 836 | Residential | Non-Participating | 728368.23 | 4775786.01 | 21 | 27 | 33 | 27 | 22 | 21 | 14 | 0 | 0 | 0 |
| 839 | Residential | Non-Participating | 727864.06 | 4775670.46 | 19 | 19 | 25 | 26 | 21 | 19 | 11 | 0 | 0 | 0 |
| 840 | Residential | Non-Participating | 728127.66 | 4775688.34 | 22 | 28 | 34 | 29 | 23 | 23 | 16 | 1 | 0 | 0 |
| 842 | Residential | Non-Participating | 726097.96 | 4775544.41 | 31 | 34 | 40 | 36 | 30 | 31 | 25 | 16 | 0 | 0 |
| 843 | Residential | Non-Participating | 726186.70 | 4775551.91 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 844 | Residential | Non-Participating | 726843.52 | 4775544.44 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 845 | Residential | Non-Participating | 726166.32 | 4775500.75 | 25 | 24 | 30 | 32 | 26 | 26 | 18 | 8 | 0 | 0 |
| 847 | Residential | Non-Participating | 726103.38 | 4775468.76 | 30 | 34 | 39 | 35 | 29 | 30 | 24 | 15 | 0 | 0 |
| 849 | Residential | Non-Participating | 726529.56 | 4775276.07 | 29 | 33 | 39 | 34 | 29 | 29 | 23 | 13 | 0 | 0 |
| 851 | Residential | Non-Participating | 726814.49 | 4775602.44 | 32 | 35 | 41 | 37 | 32 | 32 | 27 | 18 | 0 | 0 |
| 852 | Residential | Non-Participating | 726270.41 | 4775560.52 | 32 | 35 | 41 | 37 | 31 | 32 | 27 | 18 | 0 | 0 |
| 858 | Residential | Non-Participating | 726986.39 | 4773765.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 859 | Residential | Non-Participating | 727055.40 | 4773757.04 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 862 | Residential | Non-Participating | 727834.62 | 4773223.80 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 864 | Residential | Non-Participating | 727766.80 | 4773162.33 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 868 | Residential | Non-Participating | 731078.39 | 4777513.27 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 870 | Residential | Non-Participating | 731171.34 | 4777483.67 | 4 | 8 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 871 | Residential | Non-Participating | 730509.26 | 4777463.86 | 11 | 20 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 872 | Residential | Non-Participating | 730481.84 | 4777399.25 | 11 | 20 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 874 | Residential | Non-Participating | 731023.49 | 4777311.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 877 | Residential | Non-Participating | 730447.25 | 4777603.88 | 11 | 20 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 879 | Residential | Non-Participating | 727826.21 | 4773150.33 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 883 | Residential | Non-Participating | 727651.78 | 4772425.03 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 884 | Residential | Non-Participating | 732553.46 | 4777033.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 886 | Residential | Non-Participating | 732377.37 | 4777492.44 | 0 | 7 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 891 | Residential | Non-Participating | 732651.96 | 4777412.79 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 894 | Residential | Non-Participating | 724048.81 | 4776152.22 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 895 | Residential | Non-Participating | 723752.10 | 4776273.13 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 897 | Residential | Non-Participating | 723980.32 | 4776307.97 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 900 | Residential | Non-Participating | 723984.23 | 4775852.95 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 903 | Residential | Non-Participating | 723921.69 | 4775711.12 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 904 | Residential | Non-Participating | 730095.90 | 4773922.65 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 905 | Residential | Non-Participating | 729888.62 | 4773911.94 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 906 | Residential | Non-Participating | 729995.07 | 4773916.38 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 908 | Residential | Non-Participating | 729911.65 | 4773839.21 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 909 | Residential | Non-Participating | 729712.95 | 4773832.38 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 920 | Residential | Non-Participating | 723997.57 | 4774755.07 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 921 | Residential | Non-Participating | 724092.78 | 4774797.29 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 923 | Residential | Non-Participating | 724027.26 | 4774679.50 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 925 | Residential | Non-Participating | 724018.80 | 4774531.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 928 | Residential | Non-Participating | 724119.23 | 4774141.79 | 14 | 23 | 28 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 930 | Residential | Non-Participating | 724117.78 | 4774089.47 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 931 | Residential | Non-Participating | 724115.08 | 4774024.30 | 14 | 22 | 28 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 933 | Residential | Non-Participating | 724026.34 | 4774741.38 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 935 | Residential | Non-Participating | 724019.88 | 4774697.99 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 937 | Residential | Non-Participating | 727182.20 | 4772189.68 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 943 | Residential | Non-Participating | 729667.73 | 4777744.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 944 | Residential | Non-Participating | 729806.46 | 4777731.62 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 946 | Residential | Non-Participating | 729594.72 | 4777803.68 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 947 | Residential | Non-Participating | 729885.26 | 4777836.49 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 952 | Residential | Non-Participating | 727747.66 | 4775660.04 | 20 | 20 | 26 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 955 | Residential | Non-Participating | 726969.30 | 4775538.77 | 31 | 34 | 40 | 35 | 30 | 30 | 25 | 16 | 0 | 0 |
| 957 | Residential | Non-Participating | 727646.72 | 4775424.59 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 961 | Residential | Non-Participating | 724348.24 | 4773639.01 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 967 | Residential | Non-Participating | 724920.33 | 4773638.00 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 968 | Residential | Non-Participating | 725009.91 | 4773598.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 970 | Residential | Non-Participating | 724584.50 | 4773579.17 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 971 | Residential | Non-Participating | 724528.67 | 4773576.47 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 972 | Residential | Non-Participating | 724634.12 | 4773578.39 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 973 | Residential | Non-Participating | 724842.58 | 4773565.86 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 975 | Residential | Non-Participating | 724481.40 | 4773563.69 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 977 | Residential | Non-Participating | 725056.87 | 4773660.84 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 978 | Residential | Non-Participating | 724539.98 | 4773639.39 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 979 | Residential | Non-Participating | 725089.55 | 4773656.21 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 980 | Residential | Non-Participating | 724380.17 | 4773634.41 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 982 | Residential | Non-Participating | 724649.21 | 4773632.27 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 984 | Residential | Non-Participating | 720508.02 | 4775126.51 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 986 | Residential | Non-Participating | 720358.20 | 4775145.63 | 5 | 17 | 22 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 989 | Residential | Non-Participating | 720267.87 | 4774379.06 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 992 | Residential | Non-Participating | 728658.15 | 4777494.01 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 994 | Residential | Non-Participating | 728752.89 | 4777569.26 | 17 | 24 | 30 | 24 | 18 | 17 | 9 | 0 | 0 | 0 |
| 996 | Residential | Non-Participating | 728966.88 | 4777521.23 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 998 | Residential | Non-Participating | 720318.81 | 4775101.03 | 4 | 17 | 22 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 999 | Residential | Non-Participating | 723238.68 | 4777217.14 | 13 | 22 | 28 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1001 | Residential | Non-Participating | 724138.29 | 4776719.32 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1002 | Residential | Non-Participating | 724112.41 | 4776676.54 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1004 | Residential | Non-Participating | 731949.68 | 4775092.04 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1005 | Residential | Non-Participating | 731414.47 | 4775435.67 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1006 | Residential | Non-Participating | 732015.89 | 4775134.43 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1007 | Residential | Non-Participating | 732077.75 | 4775158.48 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1008 | Residential | Non-Participating | 731768.52 | 4775157.34 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1009 | Residential | Non-Participating | 732214.48 | 4775185.72 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1010 | Residential | Non-Participating | 732129.72 | 4775182.37 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1012 | Residential | Non-Participating | 732058.28 | 4775253.21 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1013 | Residential | Non-Participating | 732217.52 | 4775318.15 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1015 | Residential | Non-Participating | 731409.03 | 4775371.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1016 | Residential | Non-Participating | 731409.24 | 4775519.08 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1017 | Residential | Non-Participating | 731435.10 | 4775555.01 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1021 | Residential | Non-Participating | 731716.15 | 4775919.65 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1022 | Residential | Non-Participating | 731786.69 | 4775886.09 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1024 | Residential | Non-Participating | 731570.63 | 4775882.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1025 | Residential | Non-Participating | 732031.68 | 4775893.80 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1026 | Residential | Non-Participating | 731850.81 | 4775877.14 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1027 | Residential | Non-Participating | 731974.22 | 4775878.91 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1028 | Residential | Non-Participating | 731628.78 | 4775862.55 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1029 | Residential | Non-Participating | 731402.56 | 4775687.63 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1031 | Residential | Non-Participating | 731478.97 | 4775678.66 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1032 | Residential | Non-Participating | 731470.63 | 4775613.43 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1033 | Residential | Non-Participating | 731422.69 | 4775589.11 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1034 | Residential | Non-Participating | 724039.87 | 4776802.82 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1035 | Residential | Non-Participating | 724101.91 | 4776826.46 | 18 | 25 | 31 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1036 | Residential | Non-Participating | 724028.14 | 4776823.66 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1037 | Residential | Non-Participating | 724083.81 | 4776851.94 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1038 | Residential | Non-Participating | 724066.58 | 4776893.30 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1039 | Residential | Non-Participating | 723626.37 | 4776890.34 | 15 | 23 | 29 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1041 | Residential | Non-Participating | 724103.33 | 4776926.16 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1042 | Residential | Non-Participating | 724089.99 | 4776926.37 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 1043 | Residential | Non-Participating | 724107.74 | 4776965.68 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 1046 | Residential | Non-Participating | 724105.85 | 4776778.13 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1047 | Residential | Non-Participating | 724113.10 | 4776751.93 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1050 | Residential | Non-Participating | 726587.25 | 4772092.90 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1051 | Residential | Non-Participating | 726573.79 | 4772129.48 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1052 | Residential | Non-Participating | 726798.67 | 4772157.07 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1058 | Residential | Non-Participating | 724354.68 | 4775435.75 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 1060 | Residential | Non-Participating | 724243.16 | 4775441.34 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1061 | Residential | Non-Participating | 724317.11 | 4775448.45 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1063 | Residential | Non-Participating | 724845.42 | 4775474.56 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 1071 | Residential | Non-Participating | 724590.80 | 4775547.88 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1073 | Residential | Non-Participating | 724236.00 | 4775389.93 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1074 | Residential | Non-Participating | 724302.42 | 4775395.71 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1076 | Residential | Non-Participating | 724964.74 | 4775391.51 | 17 | 17 | 23 | 25 | 18 | 17 | 8 | 0 | 0 | 0 |
| 1078 | Residential | Non-Participating | 724799.23 | 4775151.53 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1090 | Residential | Non-Participating | 728286.80 | 4777947.38 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 1094 | Residential | Non-Participating | 730546.38 | 4777725.26 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 1096 | Residential | Non-Participating | 730614.49 | 4778344.91 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1097 | Residential | Non-Participating | 730691.19 | 4778401.67 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1100 | Residential | Non-Participating | 730614.75 | 4778452.56 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1104 | Residential | Non-Participating | 731558.04 | 4774875.78 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1105 | Residential | Non-Participating | 731435.68 | 4774877.87 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1106 | Residential | Non-Participating | 731485.26 | 4774905.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1107 | Residential | Non-Participating | 731631.99 | 4774936.63 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1108 | Residential | Non-Participating | 731563.43 | 4774956.90 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1109 | Residential | Non-Participating | 731614.94 | 4774986.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1110 | Residential | Non-Participating | 731672.81 | 4775008.82 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1111 | Residential | Non-Participating | 731735.55 | 4775045.18 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1112 | Residential | Non-Participating | 731870.28 | 4775055.71 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1115 | Residential | Non-Participating | 723980.93 | 4775590.81 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1117 | Residential | Non-Participating | 723869.54 | 4775409.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1118 | Residential | Non-Participating | 724018.76 | 4775410.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1119 | Residential | Non-Participating | 723925.93 | 4775409.25 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1120 | Residential | Non-Participating | 723723.24 | 4775401.57 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1121 | Residential | Non-Participating | 723904.36 | 4775405.38 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1123 | Residential | Non-Participating | 723978.12 | 4775407.15 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1124 | Residential | Non-Participating | 724091.10 | 4775377.84 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1125 | Residential | Non-Participating | 724062.58 | 4775375.51 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1128 | Residential | Non-Participating | 723986.51 | 4775560.82 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1133 | Residential | Non-Participating | 724013.07 | 4774868.60 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1134 | Residential | Non-Participating | 724019.70 | 4774833.10 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1141 | Residential | Non-Participating | 724203.14 | 4775432.29 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1142 | Residential | Non-Participating | 724128.40 | 4775425.80 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 1144 | Residential | Non-Participating | 724057.56 | 4775423.59 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1146 | Residential | Non-Participating | 723628.31 | 4775362.25 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1147 | Residential | Non-Participating | 723976.67 | 4775374.91 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |

**Table 7-5.1a: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1148 | Residential | Non-Participating | 723951.89 | 4775370.80 | 11 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1149 | Residential | Non-Participating | 723882.86 | 4775366.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1150 | Residential | Non-Participating | 723970.79 | 4775503.66 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1151 | Residential | Non-Participating | 723996.62 | 4775356.90 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1156 | Residential | Non-Participating | 723988.28 | 4775310.70 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1160 | Residential | Non-Participating | 723404.91 | 4775233.87 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 1161 | Residential | Non-Participating | 723727.22 | 4775204.79 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1164 | Residential | Non-Participating | 722733.09 | 4773217.91 | 8 | 19 | 25 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 1166 | Residential | Non-Participating | 723345.91 | 4773213.76 | 10 | 20 | 26 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 1167 | Residential | Non-Participating | 722686.66 | 4773151.26 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 1169 | Residential | Non-Participating | 722619.71 | 4773148.87 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 1170 | Residential | Non-Participating | 722930.96 | 4773236.57 | 9 | 19 | 25 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1176 | Residential | Non-Participating | 727473.19 | 4777362.36 | 24 | 29 | 35 | 30 | 24 | 24 | 18 | 4 | 0 | 0 |
| 1178 | Residential | Non-Participating | 727341.32 | 4777309.54 | 25 | 30 | 36 | 31 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1181 | Residential | Non-Participating | 727424.83 | 4777261.94 | 25 | 30 | 36 | 30 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1182 | Residential | Non-Participating | 727143.38 | 4777202.69 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 1184 | Residential | Non-Participating | 726878.49 | 4777103.97 | 29 | 33 | 39 | 34 | 28 | 29 | 23 | 13 | 0 | 0 |
| 1185 | Residential | Non-Participating | 727168.71 | 4777318.85 | 26 | 30 | 36 | 31 | 26 | 26 | 20 | 7 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **552** | **Residential** | **Non-Participating** | **726869.96** | **4776294.50** | **39** | **40** | **46** | **44** | **37** | **38** | **34** | **27** | **14** | **0** |
| **787** | **Residential** | **Non-Participating** | **732705.58** | **4776616.09** | **0** | **6** | **12** | **12** | **3** | **0** | **0** | **0** | **0** | **0** |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 552 | Residential | Non-Participating | 726869.96 | 4776294.50 | 39 | 40 | 46 | 44 | 37 | 38 | 34 | 27 | 14 | 0 |
| 553 | Residential | Non-Participating | 726795.81 | 4775870.01 | 37 | 39 | 45 | 42 | 35 | 36 | 31 | 24 | 9 | 0 |
| 851 | Residential | Non-Participating | 726814.49 | 4775602.44 | 32 | 35 | 41 | 37 | 32 | 32 | 27 | 18 | 0 | 0 |
| 852 | Residential | Non-Participating | 726270.41 | 4775560.52 | 32 | 35 | 41 | 37 | 31 | 32 | 27 | 18 | 0 | 0 |
| 793 | Residential | Non-Participating | 726819.44 | 4776889.60 | 32 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 843 | Residential | Non-Participating | 726186.70 | 4775551.91 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 844 | Residential | Non-Participating | 726843.52 | 4775544.44 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 842 | Residential | Non-Participating | 726097.96 | 4775544.41 | 31 | 34 | 40 | 36 | 30 | 31 | 25 | 16 | 0 | 0 |
| 955 | Residential | Non-Participating | 726969.30 | 4775538.77 | 31 | 34 | 40 | 35 | 30 | 30 | 25 | 16 | 0 | 0 |
| 494 | Residential | Non-Participating | 726000.27 | 4775543.61 | 30 | 34 | 39 | 35 | 29 | 30 | 25 | 15 | 0 | 0 |
| 847 | Residential | Non-Participating | 726103.38 | 4775468.76 | 30 | 34 | 39 | 35 | 29 | 30 | 24 | 15 | 0 | 0 |
| 792 | Residential | Non-Participating | 726264.37 | 4777056.36 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |
| 800 | Residential | Non-Participating | 726341.01 | 4777087.79 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |
| 796 | Residential | Non-Participating | 726523.80 | 4777148.13 | 29 | 33 | 39 | 34 | 29 | 29 | 24 | 13 | 0 | 0 |
| 849 | Residential | Non-Participating | 726529.56 | 4775276.07 | 29 | 33 | 39 | 34 | 29 | 29 | 23 | 13 | 0 | 0 |
| 1184 | Residential | Non-Participating | 726878.49 | 4777103.97 | 29 | 33 | 39 | 34 | 28 | 29 | 23 | 13 | 0 | 0 |
| 527 | Residential | Non-Participating | 725745.37 | 4776873.27 | 28 | 32 | 38 | 33 | 28 | 28 | 23 | 12 | 0 | 0 |
| 522 | Residential | Non-Participating | 725799.55 | 4776942.37 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 12 | 0 | 0 |
| 795 | Residential | Non-Participating | 726791.37 | 4777222.00 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 526 | Residential | Non-Participating | 725694.41 | 4776864.47 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 525 | Residential | Non-Participating | 725659.02 | 4776858.18 | 28 | 32 | 38 | 33 | 27 | 28 | 22 | 11 | 0 | 0 |
| 493 | Residential | Non-Participating | 725609.06 | 4775531.37 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 1182 | Residential | Non-Participating | 727143.38 | 4777202.69 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 520 | Residential | Non-Participating | 725568.18 | 4776896.20 | 27 | 31 | 37 | 32 | 26 | 27 | 21 | 9 | 0 | 0 |
| 490 | Residential | Non-Participating | 725481.55 | 4775646.09 | 26 | 31 | 37 | 32 | 26 | 26 | 21 | 9 | 0 | 0 |
| 1185 | Residential | Non-Participating | 727168.71 | 4777318.85 | 26 | 30 | 36 | 31 | 26 | 26 | 20 | 7 | 0 | 0 |
| 845 | Residential | Non-Participating | 726166.32 | 4775500.75 | 25 | 24 | 30 | 32 | 26 | 26 | 18 | 8 | 0 | 0 |
| 1178 | Residential | Non-Participating | 727341.32 | 4777309.54 | 25 | 30 | 36 | 31 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1181 | Residential | Non-Participating | 727424.83 | 4777261.94 | 25 | 30 | 36 | 30 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1176 | Residential | Non-Participating | 727473.19 | 4777362.36 | 24 | 29 | 35 | 30 | 24 | 24 | 18 | 4 | 0 | 0 |
| 840 | Residential | Non-Participating | 728127.66 | 4775688.34 | 22 | 28 | 34 | 29 | 23 | 23 | 16 | 1 | 0 | 0 |
| 833 | Residential | Non-Participating | 728211.67 | 4775698.67 | 22 | 28 | 34 | 28 | 22 | 22 | 15 | 0 | 0 | 0 |
| 836 | Residential | Non-Participating | 728368.23 | 4775786.01 | 21 | 27 | 33 | 27 | 22 | 21 | 14 | 0 | 0 | 0 |
| 505 | Residential | Non-Participating | 728404.50 | 4776021.03 | 21 | 27 | 33 | 28 | 22 | 21 | 14 | 0 | 0 | 0 |
| 820 | Residential | Non-Participating | 728376.17 | 4776814.25 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 818 | Residential | Non-Participating | 728360.22 | 4776876.53 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 508 | Residential | Non-Participating | 728471.87 | 4776377.38 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 510 | Residential | Non-Participating | 728475.58 | 4776335.38 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 811 | Residential | Non-Participating | 728104.85 | 4777386.29 | 21 | 27 | 33 | 27 | 21 | 21 | 14 | 0 | 0 | 0 |
| 815 | Residential | Non-Participating | 728267.18 | 4777256.79 | 20 | 27 | 32 | 27 | 21 | 20 | 13 | 0 | 0 | 0 |
| 952 | Residential | Non-Participating | 727747.66 | 4775660.04 | 20 | 20 | 26 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 828 | Residential | Non-Participating | 728192.45 | 4777492.34 | 20 | 26 | 32 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 405 | Residential | Non-Participating | 726469.31 | 4774847.53 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 957 | Residential | Non-Participating | 727646.72 | 4775424.59 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 816 | Residential | Non-Participating | 728415.93 | 4777190.55 | 20 | 26 | 32 | 26 | 20 | 20 | 12 | 0 | 0 | 0 |
| 829 | Residential | Non-Participating | 728257.16 | 4777490.59 | 20 | 26 | 32 | 26 | 20 | 20 | 12 | 0 | 0 | 0 |
| 806 | Residential | Non-Participating | 728326.02 | 4777429.36 | 19 | 26 | 32 | 26 | 20 | 20 | 12 | 0 | 0 | 0 |
| 813 | Residential | Non-Participating | 728412.48 | 4777332.87 | 19 | 26 | 32 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 812 | Residential | Non-Participating | 728407.33 | 4777381.45 | 19 | 26 | 32 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 839 | Residential | Non-Participating | 727864.06 | 4775670.46 | 19 | 19 | 25 | 26 | 21 | 19 | 11 | 0 | 0 | 0 |
| 804 | Residential | Non-Participating | 728010.95 | 4777435.68 | 19 | 24 | 30 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 807 | Residential | Non-Participating | 728401.19 | 4777423.79 | 19 | 26 | 32 | 26 | 20 | 19 | 11 | 0 | 0 | 0 |
| 809 | Residential | Non-Participating | 728423.69 | 4777411.44 | 19 | 26 | 31 | 26 | 20 | 19 | 11 | 0 | 0 | 0 |
| 834 | Residential | Non-Participating | 727838.78 | 4775509.90 | 19 | 19 | 25 | 26 | 20 | 19 | 10 | 0 | 0 | 0 |
| 496 | Residential | Non-Participating | 725155.47 | 4775492.08 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 1001 | Residential | Non-Participating | 724138.29 | 4776719.32 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1002 | Residential | Non-Participating | 724112.41 | 4776676.54 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1047 | Residential | Non-Participating | 724113.10 | 4776751.93 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1046 | Residential | Non-Participating | 724105.85 | 4776778.13 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 992 | Residential | Non-Participating | 728658.15 | 4777494.01 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1035 | Residential | Non-Participating | 724101.91 | 4776826.46 | 18 | 25 | 31 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1037 | Residential | Non-Participating | 724083.81 | 4776851.94 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1041 | Residential | Non-Participating | 724103.33 | 4776926.16 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1043 | Residential | Non-Participating | 724107.74 | 4776965.68 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 1042 | Residential | Non-Participating | 724089.99 | 4776926.37 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 897 | Residential | Non-Participating | 723980.32 | 4776307.97 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1034 | Residential | Non-Participating | 724039.87 | 4776802.82 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1038 | Residential | Non-Participating | 724066.58 | 4776893.30 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1036 | Residential | Non-Participating | 724028.14 | 4776823.66 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 994 | Residential | Non-Participating | 728752.89 | 4777569.26 | 17 | 24 | 30 | 24 | 18 | 17 | 9 | 0 | 0 | 0 |
| 801 | Residential | Non-Participating | 727758.11 | 4777459.63 | 17 | 17 | 23 | 25 | 19 | 17 | 8 | 0 | 0 | 0 |
| 1076 | Residential | Non-Participating | 724964.74 | 4775391.51 | 17 | 17 | 23 | 25 | 18 | 17 | 8 | 0 | 0 | 0 |
| 1063 | Residential | Non-Participating | 724845.42 | 4775474.56 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 895 | Residential | Non-Participating | 723752.10 | 4776273.13 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 803 | Residential | Non-Participating | 727914.34 | 4777440.42 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 996 | Residential | Non-Participating | 728966.88 | 4777521.23 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 791 | Residential | Non-Participating | 724404.54 | 4774343.97 | 16 | 24 | 29 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 825 | Residential | Non-Participating | 727894.73 | 4777525.91 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 147 | Residential | Non-Participating | 724194.25 | 4777091.81 | 16 | 22 | 28 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 565 | Residential | Non-Participating | 729416.96 | 4776511.63 | 16 | 23 | 29 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 1039 | Residential | Non-Participating | 723626.37 | 4776890.34 | 15 | 23 | 29 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 560 | Residential | Non-Participating | 729480.90 | 4776581.53 | 15 | 23 | 29 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1078 | Residential | Non-Participating | 724799.23 | 4775151.53 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 419 | Residential | Non-Participating | 726514.90 | 4774178.67 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 557 | Residential | Non-Participating | 729532.60 | 4776634.43 | 15 | 23 | 29 | 23 | 16 | 15 | 6 | 0 | 0 | 0 |
| 1071 | Residential | Non-Participating | 724590.80 | 4775547.88 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 439 | Residential | Non-Participating | 729570.88 | 4776598.02 | 15 | 23 | 29 | 23 | 16 | 15 | 6 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 832 | Residential | Non-Participating | 728575.25 | 4775727.93 | 15 | 16 | 22 | 23 | 17 | 15 | 5 | 0 | 0 | 0 |
| 438 | Residential | Non-Participating | 729643.61 | 4776671.50 | 15 | 23 | 28 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 928 | Residential | Non-Participating | 724119.23 | 4774141.79 | 14 | 23 | 28 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 175 | Residential | Non-Participating | 729710.98 | 4776892.58 | 14 | 22 | 28 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 931 | Residential | Non-Participating | 724115.08 | 4774024.30 | 14 | 22 | 28 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 824 | Residential | Non-Participating | 728342.73 | 4777577.48 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 190 | Residential | Non-Participating | 729710.66 | 4777219.08 | 14 | 22 | 28 | 22 | 15 | 14 | 4 | 0 | 0 | 0 |
| 197 | Residential | Non-Participating | 729792.79 | 4776992.77 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 189 | Residential | Non-Participating | 729728.59 | 4777228.39 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 980 | Residential | Non-Participating | 724380.17 | 4773634.41 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 1058 | Residential | Non-Participating | 724354.68 | 4775435.75 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 961 | Residential | Non-Participating | 724348.24 | 4773639.01 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 1061 | Residential | Non-Participating | 724317.11 | 4775448.45 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 443 | Residential | Non-Participating | 728476.10 | 4774926.24 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 441 | Residential | Non-Participating | 728380.62 | 4774794.38 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 999 | Residential | Non-Participating | 723238.68 | 4777217.14 | 13 | 22 | 28 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1074 | Residential | Non-Participating | 724302.42 | 4775395.71 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 497 | Residential | Non-Participating | 726499.43 | 4773815.63 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1060 | Residential | Non-Participating | 724243.16 | 4775441.34 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 504 | Residential | Non-Participating | 726556.95 | 4773805.94 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1073 | Residential | Non-Participating | 724236.00 | 4775389.93 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 835 | Residential | Non-Participating | 728639.12 | 4774987.30 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1141 | Residential | Non-Participating | 724203.14 | 4775432.29 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 162 | Residential | Non-Participating | 724071.22 | 4773625.65 | 13 | 22 | 27 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 894 | Residential | Non-Participating | 724048.81 | 4776152.22 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 417 | Residential | Non-Participating | 725996.58 | 4773793.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 1090 | Residential | Non-Participating | 728286.80 | 4777947.38 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 501 | Residential | Non-Participating | 726738.21 | 4773745.37 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 858 | Residential | Non-Participating | 726986.39 | 4773765.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 503 | Residential | Non-Participating | 726884.80 | 4773761.13 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 500 | Residential | Non-Participating | 726740.59 | 4773733.14 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 163 | Residential | Non-Participating | 724068.17 | 4773563.24 | 13 | 22 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 859 | Residential | Non-Participating | 727055.40 | 4773757.04 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 502 | Residential | Non-Participating | 726811.30 | 4773727.78 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 192 | Residential | Non-Participating | 730047.50 | 4777204.44 | 12 | 21 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1142 | Residential | Non-Participating | 724128.40 | 4775425.80 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 416 | Residential | Non-Participating | 725907.67 | 4773755.90 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 930 | Residential | Non-Participating | 724117.78 | 4774089.47 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 591 | Residential | Non-Participating | 729051.03 | 4775832.73 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 186 | Residential | Non-Participating | 730068.30 | 4777289.94 | 12 | 21 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 978 | Residential | Non-Participating | 724539.98 | 4773639.39 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 900 | Residential | Non-Participating | 723984.23 | 4775852.95 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1124 | Residential | Non-Participating | 724091.10 | 4775377.84 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1144 | Residential | Non-Participating | 724057.56 | 4775423.59 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 415 | Residential | Non-Participating | 725807.21 | 4773736.35 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 586 | Residential | Non-Participating | 729054.70 | 4775670.07 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1125 | Residential | Non-Participating | 724062.58 | 4775375.51 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 412 | Residential | Non-Participating | 725923.56 | 4773684.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 583 | Residential | Non-Participating | 729065.00 | 4775607.16 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1115 | Residential | Non-Participating | 723980.93 | 4775590.81 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 542 | Residential | Non-Participating | 729135.55 | 4776074.64 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 157 | Residential | Non-Participating | 724139.27 | 4773265.70 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 153 | Residential | Non-Participating | 724080.78 | 4773322.69 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1118 | Residential | Non-Participating | 724018.76 | 4775410.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1128 | Residential | Non-Participating | 723986.51 | 4775560.82 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 588 | Residential | Non-Participating | 729105.72 | 4775701.33 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 550 | Residential | Non-Participating | 729133.41 | 4775868.04 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 187 | Residential | Non-Participating | 730189.21 | 4777278.94 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 975 | Residential | Non-Participating | 724481.40 | 4773563.69 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 903 | Residential | Non-Participating | 723921.69 | 4775711.12 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1150 | Residential | Non-Participating | 723970.79 | 4775503.66 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 411 | Residential | Non-Participating | 725801.60 | 4773667.29 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 554 | Residential | Non-Participating | 729165.74 | 4775920.62 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1151 | Residential | Non-Participating | 723996.62 | 4775356.90 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1123 | Residential | Non-Participating | 723978.12 | 4775407.15 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 414 | Residential | Non-Participating | 725564.14 | 4773712.43 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 574 | Residential | Non-Participating | 729198.60 | 4775966.03 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1156 | Residential | Non-Participating | 723988.28 | 4775310.70 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1147 | Residential | Non-Participating | 723976.67 | 4775374.91 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 410 | Residential | Non-Participating | 725730.08 | 4773652.04 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 546 | Residential | Non-Participating | 729179.94 | 4775742.74 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 543 | Residential | Non-Participating | 729223.99 | 4776058.44 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1148 | Residential | Non-Participating | 723951.89 | 4775370.80 | 11 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1119 | Residential | Non-Participating | 723925.93 | 4775409.25 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 418 | Residential | Non-Participating | 725684.35 | 4773634.06 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 413 | Residential | Non-Participating | 725519.84 | 4773684.95 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 241 | Residential | Non-Participating | 727938.57 | 4773896.99 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 539 | Residential | Non-Participating | 729247.86 | 4776115.16 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 183 | Residential | Non-Participating | 730282.34 | 4777353.86 | 11 | 21 | 27 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1121 | Residential | Non-Participating | 723904.36 | 4775405.38 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 595 | Residential | Non-Participating | 729244.54 | 4775762.90 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 572 | Residential | Non-Participating | 729296.32 | 4776304.42 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1117 | Residential | Non-Participating | 723869.54 | 4775409.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1149 | Residential | Non-Participating | 723882.86 | 4775366.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 245 | Residential | Non-Participating | 727941.82 | 4773829.14 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 180 | Residential | Non-Participating | 730332.85 | 4777455.33 | 11 | 21 | 26 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 589 | Residential | Non-Participating | 729277.00 | 4775709.66 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 570 | Residential | Non-Participating | 729329.21 | 4776384.95 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 548 | Residential | Non-Participating | 729299.49 | 4775753.64 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 179 | Residential | Non-Participating | 730341.31 | 4777505.17 | 11 | 21 | 26 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 182 | Residential | Non-Participating | 730397.07 | 4777391.97 | 11 | 21 | 26 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 921 | Residential | Non-Participating | 724092.78 | 4774797.29 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1133 | Residential | Non-Participating | 724013.07 | 4774868.60 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 406 | Residential | Non-Participating | 725376.78 | 4773605.51 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 255 | Residential | Non-Participating | 728045.32 | 4773810.50 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 596 | Residential | Non-Participating | 729137.86 | 4775072.56 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 181 | Residential | Non-Participating | 730419.48 | 4777448.31 | 11 | 21 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1134 | Residential | Non-Participating | 724019.70 | 4774833.10 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 259 | Residential | Non-Participating | 728093.92 | 4773807.33 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 872 | Residential | Non-Participating | 730481.84 | 4777399.25 | 11 | 20 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 256 | Residential | Non-Participating | 728122.41 | 4773811.55 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 569 | Residential | Non-Participating | 729418.72 | 4776407.16 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 877 | Residential | Non-Participating | 730447.25 | 4777603.88 | 11 | 20 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 933 | Residential | Non-Participating | 724026.34 | 4774741.38 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 920 | Residential | Non-Participating | 723997.57 | 4774755.07 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1120 | Residential | Non-Participating | 723723.24 | 4775401.57 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 871 | Residential | Non-Participating | 730509.26 | 4777463.86 | 11 | 20 | 26 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 935 | Residential | Non-Participating | 724019.88 | 4774697.99 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 597 | Residential | Non-Participating | 729246.56 | 4775114.00 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 923 | Residential | Non-Participating | 724027.26 | 4774679.50 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 979 | Residential | Non-Participating | 725089.55 | 4773656.21 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 260 | Residential | Non-Participating | 728194.37 | 4773807.03 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 977 | Residential | Non-Participating | 725056.87 | 4773660.84 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1161 | Residential | Non-Participating | 723727.22 | 4775204.79 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 262 | Residential | Non-Participating | 728319.88 | 4773805.84 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 156 | Residential | Non-Participating | 723430.22 | 4773252.51 | 10 | 20 | 26 | 20 | 12 | 10 | 0 | 0 | 0 | 0 |
| 1146 | Residential | Non-Participating | 723628.31 | 4775362.25 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 925 | Residential | Non-Participating | 724018.80 | 4774531.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 968 | Residential | Non-Participating | 725009.91 | 4773598.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 380 | Residential | Non-Participating | 729202.42 | 4774793.43 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 967 | Residential | Non-Participating | 724920.33 | 4773638.00 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 261 | Residential | Non-Participating | 728381.69 | 4773806.78 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 383 | Residential | Non-Participating | 729284.04 | 4774898.68 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 264 | Residential | Non-Participating | 728409.47 | 4773804.84 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 381 | Residential | Non-Participating | 729289.10 | 4774862.65 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 392 | Residential | Non-Participating | 728958.10 | 4774322.18 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 1166 | Residential | Non-Participating | 723345.91 | 4773213.76 | 10 | 20 | 26 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 499 | Residential | Non-Participating | 726578.49 | 4773124.46 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 549 | Residential | Non-Participating | 729582.03 | 4775768.26 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 282 | Residential | Non-Participating | 728402.85 | 4773754.82 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 284 | Residential | Non-Participating | 728385.09 | 4773738.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 53 | Residential | Non-Participating | 729603.31 | 4775779.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 263 | Residential | Non-Participating | 728488.66 | 4773811.49 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 276 | Residential | Non-Participating | 728476.47 | 4773775.26 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 375 | Residential | Non-Participating | 729214.13 | 4774594.70 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 973 | Residential | Non-Participating | 724842.58 | 4773565.86 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 253 | Residential | Non-Participating | 728566.17 | 4773824.45 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 258 | Residential | Non-Participating | 728539.39 | 4773820.25 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 286 | Residential | Non-Participating | 728467.97 | 4773737.61 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 374 | Residential | Non-Participating | 729197.60 | 4774518.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 252 | Residential | Non-Participating | 728595.08 | 4773831.83 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 281 | Residential | Non-Participating | 728530.84 | 4773763.16 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 273 | Residential | Non-Participating | 728563.13 | 4773784.48 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 168 | Residential | Non-Participating | 723675.05 | 4773455.48 | 9 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 376 | Residential | Non-Participating | 729291.50 | 4774638.73 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 982 | Residential | Non-Participating | 724649.21 | 4773632.27 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 782 | Residential | Non-Participating | 729358.86 | 4777674.71 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 250 | Residential | Non-Participating | 728650.16 | 4773838.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 272 | Residential | Non-Participating | 728594.10 | 4773787.29 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 287 | Residential | Non-Participating | 728515.52 | 4773726.20 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 209 | Residential | Non-Participating | 726577.69 | 4773017.75 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 373 | Residential | Non-Participating | 729169.12 | 4774409.14 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 395 | Residential | Non-Participating | 729149.53 | 4774376.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 251 | Residential | Non-Participating | 728677.01 | 4773842.04 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 271 | Residential | Non-Participating | 728619.33 | 4773789.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 248 | Residential | Non-Participating | 728707.21 | 4773846.95 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 270 | Residential | Non-Participating | 728651.43 | 4773791.41 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 391 | Residential | Non-Participating | 729124.31 | 4774296.74 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 972 | Residential | Non-Participating | 724634.12 | 4773578.39 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 247 | Residential | Non-Participating | 728736.11 | 4773849.86 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 268 | Residential | Non-Participating | 728666.23 | 4773797.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 786 | Residential | Non-Participating | 729347.61 | 4777805.09 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 285 | Residential | Non-Participating | 728628.02 | 4773740.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 1160 | Residential | Non-Participating | 723404.91 | 4775233.87 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 393 | Residential | Non-Participating | 729202.17 | 4774357.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 771 | Residential | Non-Participating | 728778.59 | 4773855.78 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 246 | Residential | Non-Participating | 728759.34 | 4773854.42 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 266 | Residential | Non-Participating | 728696.53 | 4773796.53 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 862 | Residential | Non-Participating | 727834.62 | 4773223.80 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 269 | Residential | Non-Participating | 728722.77 | 4773798.50 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 970 | Residential | Non-Participating | 724584.50 | 4773579.17 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 390 | Residential | Non-Participating | 729171.45 | 4774265.89 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 605 | Residential | Non-Participating | 728803.87 | 4773860.70 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 267 | Residential | Non-Participating | 728747.55 | 4773802.94 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 290 | Residential | Non-Participating | 728664.41 | 4773719.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 51 | Residential | Non-Participating | 729795.23 | 4775782.85 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 178 | Residential | Non-Participating | 729758.86 | 4776841.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 372 | Residential | Non-Participating | 729283.10 | 4774405.12 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 606 | Residential | Non-Participating | 728832.65 | 4773864.22 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 864 | Residential | Non-Participating | 727766.80 | 4773162.33 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 1170 | Residential | Non-Participating | 722930.96 | 4773236.57 | 9 | 19 | 25 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 971 | Residential | Non-Participating | 724528.67 | 4773576.47 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 608 | Residential | Non-Participating | 728858.52 | 4773869.05 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 711 | Residential | Non-Participating | 728774.18 | 4773799.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 712 | Residential | Non-Participating | 728796.08 | 4773802.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 237 | Residential | Non-Participating | 727894.54 | 4773215.39 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 236 | Residential | Non-Participating | 727942.13 | 4773217.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 293 | Residential | Non-Participating | 728677.45 | 4773716.32 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 292 | Residential | Non-Participating | 728691.05 | 4773715.22 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 296 | Residential | Non-Participating | 728646.09 | 4773685.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 631 | Residential | Non-Participating | 729048.32 | 4774060.84 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 781 | Residential | Non-Participating | 729455.01 | 4777793.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 387 | Residential | Non-Participating | 729139.66 | 4774149.00 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 612 | Residential | Non-Participating | 728909.84 | 4773878.32 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 714 | Residential | Non-Participating | 728832.33 | 4773807.11 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 879 | Residential | Non-Participating | 727826.21 | 4773150.33 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 289 | Residential | Non-Participating | 728747.07 | 4773729.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 238 | Residential | Non-Participating | 727995.59 | 4773235.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 298 | Residential | Non-Participating | 728677.71 | 4773672.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 52 | Residential | Non-Participating | 729842.04 | 4775784.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 385 | Residential | Non-Participating | 729120.27 | 4774107.71 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 630 | Residential | Non-Participating | 729047.33 | 4773996.87 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 616 | Residential | Non-Participating | 728943.97 | 4773891.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 717 | Residential | Non-Participating | 728860.19 | 4773810.77 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 229 | Residential | Non-Participating | 727926.92 | 4773165.93 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 299 | Residential | Non-Participating | 728712.58 | 4773661.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 239 | Residential | Non-Participating | 728097.66 | 4773244.28 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 49 | Residential | Non-Participating | 729873.29 | 4775778.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 625 | Residential | Non-Participating | 729047.55 | 4773967.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 613 | Residential | Non-Participating | 728975.13 | 4773880.74 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 232 | Residential | Non-Participating | 727991.09 | 4773175.48 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 661 | Residential | Non-Participating | 728782.08 | 4773690.84 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 230 | Residential | Non-Participating | 728027.10 | 4773175.59 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 307 | Residential | Non-Participating | 728146.07 | 4773248.45 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 629 | Residential | Non-Participating | 729097.83 | 4773998.72 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 623 | Residential | Non-Participating | 729040.61 | 4773944.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 306 | Residential | Non-Participating | 728271.85 | 4773304.24 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 626 | Residential | Non-Participating | 729092.21 | 4773975.11 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 621 | Residential | Non-Participating | 729037.87 | 4773918.07 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 713 | Residential | Non-Participating | 728922.42 | 4773806.03 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 226 | Residential | Non-Participating | 728200.73 | 4773243.88 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 624 | Residential | Non-Participating | 729091.42 | 4773955.31 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 655 | Residential | Non-Participating | 728825.80 | 4773684.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 309 | Residential | Non-Participating | 728235.69 | 4773254.34 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1164 | Residential | Non-Participating | 722733.09 | 4773217.91 | 8 | 19 | 25 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 622 | Residential | Non-Participating | 729086.06 | 4773932.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 651 | Residential | Non-Participating | 728793.10 | 4773649.35 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 669 | Residential | Non-Participating | 728853.62 | 4773689.97 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 445 | Residential | Non-Participating | 728079.16 | 4773163.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 50 | Residential | Non-Participating | 729939.14 | 4775783.38 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 619 | Residential | Non-Participating | 729086.47 | 4773908.47 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 615 | Residential | Non-Participating | 729077.58 | 4773891.93 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 718 | Residential | Non-Participating | 729019.22 | 4773815.07 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 946 | Residential | Non-Participating | 729594.72 | 4777803.68 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 657 | Residential | Non-Participating | 728874.48 | 4773687.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 444 | Residential | Non-Participating | 728141.22 | 4773158.51 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 724 | Residential | Non-Participating | 729074.07 | 4773862.04 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 303 | Residential | Non-Participating | 728695.95 | 4773505.28 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 641 | Residential | Non-Participating | 728845.67 | 4773641.62 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 656 | Residential | Non-Participating | 728899.46 | 4773689.13 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 721 | Residential | Non-Participating | 729073.05 | 4773845.92 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 640 | Residential | Non-Participating | 728867.69 | 4773640.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 667 | Residential | Non-Participating | 728939.24 | 4773695.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 664 | Residential | Non-Participating | 728916.86 | 4773691.08 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 716 | Residential | Non-Participating | 729065.57 | 4773815.10 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 943 | Residential | Non-Participating | 729667.73 | 4777744.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1167 | Residential | Non-Participating | 722686.66 | 4773151.26 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 196 | Residential | Non-Participating | 729940.00 | 4777038.55 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 635 | Residential | Non-Participating | 728899.71 | 4773642.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 58 | Residential | Non-Participating | 730016.13 | 4775783.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 702 | Residential | Non-Participating | 729071.42 | 4773779.91 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 639 | Residential | Non-Participating | 728924.81 | 4773640.56 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 231 | Residential | Non-Participating | 728315.16 | 4773184.88 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1169 | Residential | Non-Participating | 722619.71 | 4773148.87 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 694 | Residential | Non-Participating | 729055.48 | 4773751.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 692 | Residential | Non-Participating | 729053.94 | 4773740.52 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 649 | Residential | Non-Participating | 728951.84 | 4773650.59 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 234 | Residential | Non-Participating | 728354.93 | 4773185.77 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 446 | Residential | Non-Participating | 728281.13 | 4773159.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 212 | Residential | Non-Participating | 726635.52 | 4772650.59 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 233 | Residential | Non-Participating | 728391.11 | 4773189.73 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 54 | Residential | Non-Participating | 730075.76 | 4775797.65 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 753 | Residential | Non-Participating | 728843.53 | 4773473.25 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 768 | Residential | Non-Participating | 728921.46 | 4773546.76 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 676 | Residential | Non-Participating | 729105.68 | 4773709.52 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 213 | Residential | Non-Participating | 726490.56 | 4772612.30 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 944 | Residential | Non-Participating | 729806.46 | 4777731.62 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 759 | Residential | Non-Participating | 728914.65 | 4773516.48 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 752 | Residential | Non-Participating | 728870.34 | 4773471.45 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 604 | Residential | Non-Participating | 728989.14 | 4773571.77 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 751 | Residential | Non-Participating | 728899.62 | 4773472.19 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 533 | Residential | Non-Participating | 722488.87 | 4773133.79 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 66 | Residential | Non-Participating | 730145.08 | 4775833.94 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 668 | Residential | Non-Participating | 729160.55 | 4773704.67 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 772 | Residential | Non-Participating | 729039.12 | 4773583.37 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 762 | Residential | Non-Participating | 728979.88 | 4773527.40 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 755 | Residential | Non-Participating | 728922.95 | 4773477.21 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 766 | Residential | Non-Participating | 728987.62 | 4773549.13 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 769 | Residential | Non-Participating | 729039.12 | 4773565.17 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 670 | Residential | Non-Participating | 729190.90 | 4773703.60 | 7 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 634 | Residential | Non-Participating | 729142.92 | 4773643.19 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 765 | Residential | Non-Participating | 729039.88 | 4773541.14 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 754 | Residential | Non-Participating | 728974.60 | 4773478.81 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 662 | Residential | Non-Participating | 729218.06 | 4773705.71 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 646 | Residential | Non-Participating | 729169.15 | 4773655.06 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 528 | Residential | Non-Participating | 722308.67 | 4773252.42 | 7 | 19 | 24 | 18 | 10 | 6 | 0 | 0 | 0 | 0 |
| 211 | Residential | Non-Participating | 726570.29 | 4772515.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 672 | Residential | Non-Participating | 729237.34 | 4773710.50 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 647 | Residential | Non-Participating | 729181.55 | 4773653.73 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 758 | Residential | Non-Participating | 729030.73 | 4773514.45 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 745 | Residential | Non-Participating | 728972.77 | 4773448.23 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 733 | Residential | Non-Participating | 728851.33 | 4773352.34 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 648 | Residential | Non-Participating | 729208.10 | 4773657.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 756 | Residential | Non-Participating | 729030.53 | 4773490.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 428 | Residential | Non-Participating | 722939.56 | 4775217.32 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 659 | Residential | Non-Participating | 729259.92 | 4773705.81 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 166 | Residential | Non-Participating | 723958.72 | 4773505.15 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 725 | Residential | Non-Participating | 729041.07 | 4773472.97 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 747 | Residential | Non-Participating | 729022.67 | 4773453.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 739 | Residential | Non-Participating | 728969.30 | 4773422.14 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 738 | Residential | Non-Participating | 728965.79 | 4773406.71 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 947 | Residential | Non-Participating | 729885.26 | 4777836.49 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 780 | Residential | Non-Participating | 729242.79 | 4773656.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 740 | Residential | Non-Participating | 729021.77 | 4773437.08 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 736 | Residential | Non-Participating | 728960.68 | 4773389.64 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 424 | Residential | Non-Participating | 722922.89 | 4775148.12 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 663 | Residential | Non-Participating | 729321.59 | 4773709.95 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 666 | Residential | Non-Participating | 729295.82 | 4773707.43 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 638 | Residential | Non-Participating | 729260.10 | 4773654.44 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 732 | Residential | Non-Participating | 728964.12 | 4773374.51 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 637 | Residential | Non-Participating | 729276.07 | 4773657.78 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 737 | Residential | Non-Participating | 729017.28 | 4773400.98 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 434 | Residential | Non-Participating | 722896.41 | 4775222.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 665 | Residential | Non-Participating | 729349.57 | 4773711.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 643 | Residential | Non-Participating | 729294.79 | 4773659.93 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 734 | Residential | Non-Participating | 729020.09 | 4773381.49 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 726 | Residential | Non-Participating | 728957.79 | 4773320.44 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 671 | Residential | Non-Participating | 729365.77 | 4773714.16 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 642 | Residential | Non-Participating | 729315.21 | 4773660.73 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 215 | Residential | Non-Participating | 726574.02 | 4772408.25 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 699 | Residential | Non-Participating | 729450.82 | 4773777.19 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 696 | Residential | Non-Participating | 729432.15 | 4773764.03 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 683 | Residential | Non-Participating | 729394.54 | 4773732.63 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 729 | Residential | Non-Participating | 729019.73 | 4773353.67 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 728 | Residential | Non-Participating | 729009.02 | 4773329.55 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 701 | Residential | Non-Participating | 729472.00 | 4773792.75 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 530 | Residential | Non-Participating | 722286.55 | 4772992.47 | 7 | 18 | 24 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 167 | Residential | Non-Participating | 723835.19 | 4773501.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 720 | Residential | Non-Participating | 729534.81 | 4773842.53 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 652 | Residential | Non-Participating | 729381.25 | 4773674.99 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 707 | Residential | Non-Participating | 729499.39 | 4773808.08 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 609 | Residential | Non-Participating | 729589.05 | 4773896.81 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 722 | Residential | Non-Participating | 729561.15 | 4773864.29 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 55 | Residential | Non-Participating | 730365.70 | 4775802.84 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 618 | Residential | Non-Participating | 729625.51 | 4773918.33 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 688 | Residential | Non-Participating | 729484.10 | 4773734.67 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 653 | Residential | Non-Participating | 729450.77 | 4773697.75 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 695 | Residential | Non-Participating | 729511.74 | 4773754.86 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 705 | Residential | Non-Participating | 729580.75 | 4773800.25 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 710 | Residential | Non-Participating | 729625.49 | 4773823.63 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 313 | Residential | Non-Participating | 729885.93 | 4774161.33 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 883 | Residential | Non-Participating | 727651.78 | 4772425.03 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 314 | Residential | Non-Participating | 729948.86 | 4774191.54 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 909 | Residential | Non-Participating | 729712.95 | 4773832.38 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 151 | Residential | Non-Participating | 723726.55 | 4773352.67 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 426 | Residential | Non-Participating | 722620.69 | 4775203.20 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 316 | Residential | Non-Participating | 730022.97 | 4774219.17 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 150 | Residential | Non-Participating | 723656.49 | 4773370.52 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 429 | Residential | Non-Participating | 722583.77 | 4775206.59 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 318 | Residential | Non-Participating | 730093.87 | 4774271.95 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1052 | Residential | Non-Participating | 726798.67 | 4772157.07 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1051 | Residential | Non-Participating | 726573.79 | 4772129.48 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 905 | Residential | Non-Participating | 729888.62 | 4773911.94 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 453 | Residential | Non-Participating | 728097.71 | 4772454.49 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 937 | Residential | Non-Participating | 727182.20 | 4772189.68 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 327 | Residential | Non-Participating | 730202.76 | 4774395.60 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 312 | Residential | Non-Participating | 730073.71 | 4774167.28 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 454 | Residential | Non-Participating | 728154.49 | 4772456.41 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 321 | Residential | Non-Participating | 730166.96 | 4774304.58 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 310 | Residential | Non-Participating | 730099.82 | 4774185.32 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1050 | Residential | Non-Participating | 726587.25 | 4772092.90 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 908 | Residential | Non-Participating | 729911.65 | 4773839.21 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 452 | Residential | Non-Participating | 728290.45 | 4772463.79 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 317 | Residential | Non-Participating | 730197.71 | 4774255.36 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 906 | Residential | Non-Participating | 729995.07 | 4773916.38 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 451 | Residential | Non-Participating | 728356.64 | 4772472.10 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 159 | Residential | Non-Participating | 723669.75 | 4773152.78 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 328 | Residential | Non-Participating | 730331.04 | 4774403.28 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 155 | Residential | Non-Participating | 723487.51 | 4773282.37 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 320 | Residential | Non-Participating | 730292.58 | 4774295.99 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 102 | Residential | Non-Participating | 725966.27 | 4772022.81 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 904 | Residential | Non-Participating | 730095.90 | 4773922.65 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 160 | Residential | Non-Participating | 723679.00 | 4773047.54 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 517 | Residential | Non-Participating | 730784.71 | 4775773.60 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 119 | Residential | Non-Participating | 722368.27 | 4775189.34 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 112 | Residential | Non-Participating | 722372.96 | 4775085.15 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 1094 | Residential | Non-Participating | 730546.38 | 4777725.26 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 326 | Residential | Non-Participating | 730431.30 | 4774406.08 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 115 | Residential | Non-Participating | 722357.20 | 4775122.97 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 331 | Residential | Non-Participating | 730477.03 | 4774453.11 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 82 | Residential | Non-Participating | 725816.16 | 4771930.09 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 124 | Residential | Non-Participating | 722281.08 | 4775095.14 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 465 | Residential | Non-Participating | 730540.74 | 4774482.22 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 85 | Residential | Non-Participating | 725657.11 | 4771913.93 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 90 | Residential | Non-Participating | 726091.65 | 4771857.51 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 84 | Residential | Non-Participating | 725714.85 | 4771919.33 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 466 | Residential | Non-Participating | 730574.06 | 4774504.41 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 83 | Residential | Non-Participating | 725514.51 | 4771917.72 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 87 | Residential | Non-Participating | 725769.99 | 4771851.99 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 88 | Residential | Non-Participating | 725809.57 | 4771853.60 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 471 | Residential | Non-Participating | 730671.92 | 4774630.30 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 89 | Residential | Non-Participating | 725611.13 | 4771852.51 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 94 | Residential | Non-Participating | 726095.72 | 4771800.34 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 535 | Residential | Non-Participating | 721951.02 | 4773179.47 | 5 | 15 | 21 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 986 | Residential | Non-Participating | 720358.20 | 4775145.63 | 5 | 17 | 22 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 474 | Residential | Non-Participating | 730798.58 | 4774651.01 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 998 | Residential | Non-Participating | 720318.81 | 4775101.03 | 4 | 17 | 22 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 113 | Residential | Non-Participating | 722105.32 | 4775079.25 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 95 | Residential | Non-Participating | 726042.91 | 4771681.08 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 476 | Residential | Non-Participating | 730850.15 | 4774664.26 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1096 | Residential | Non-Participating | 730614.49 | 4778344.91 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 114 | Residential | Non-Participating | 722025.70 | 4775078.79 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 516 | Residential | Non-Participating | 731141.44 | 4775781.92 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 73 | Residential | Non-Participating | 730563.48 | 4773953.39 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 874 | Residential | Non-Participating | 731023.49 | 4777311.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 518 | Residential | Non-Participating | 731188.19 | 4775834.08 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 72 | Residential | Non-Participating | 730629.86 | 4773989.17 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1100 | Residential | Non-Participating | 730614.75 | 4778452.56 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 121 | Residential | Non-Participating | 721928.80 | 4775199.82 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1097 | Residential | Non-Participating | 730691.19 | 4778401.67 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 468 | Residential | Non-Participating | 730976.46 | 4774609.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 868 | Residential | Non-Participating | 731078.39 | 4777513.27 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 118 | Residential | Non-Participating | 721885.31 | 4775169.22 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 136 | Residential | Non-Participating | 721047.53 | 4774140.06 | 4 | 15 | 20 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 75 | Residential | Non-Participating | 730739.14 | 4773912.10 | 4 | 9 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 870 | Residential | Non-Participating | 731171.34 | 4777483.67 | 4 | 8 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 464 | Residential | Non-Participating | 731065.40 | 4774458.36 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 459 | Residential | Non-Participating | 731025.02 | 4774380.84 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 422 | Residential | Non-Participating | 731132.41 | 4774605.26 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 116 | Residential | Non-Participating | 721750.54 | 4775111.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1029 | Residential | Non-Participating | 731402.56 | 4775687.63 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 479 | Residential | Non-Participating | 731190.60 | 4774696.78 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 458 | Residential | Non-Participating | 731034.22 | 4774322.34 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1016 | Residential | Non-Participating | 731409.24 | 4775519.08 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1033 | Residential | Non-Participating | 731422.69 | 4775589.11 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 480 | Residential | Non-Participating | 731233.86 | 4774711.91 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1005 | Residential | Non-Participating | 731414.47 | 4775435.67 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1017 | Residential | Non-Participating | 731435.10 | 4775555.01 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1015 | Residential | Non-Participating | 731409.03 | 4775371.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 117 | Residential | Non-Participating | 721667.54 | 4775158.55 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 421 | Residential | Non-Participating | 731217.87 | 4774599.79 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 456 | Residential | Non-Participating | 731052.54 | 4774154.81 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1031 | Residential | Non-Participating | 731478.97 | 4775678.66 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1032 | Residential | Non-Participating | 731470.63 | 4775613.43 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 120 | Residential | Non-Participating | 721630.11 | 4775174.75 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 70 | Residential | Non-Participating | 730996.74 | 4773988.38 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 469 | Residential | Non-Participating | 731287.34 | 4774632.13 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 485 | Residential | Non-Participating | 731355.45 | 4774819.89 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1024 | Residential | Non-Participating | 731570.63 | 4775882.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 460 | Residential | Non-Participating | 731243.37 | 4774403.63 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 487 | Residential | Non-Participating | 731400.62 | 4774848.49 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 473 | Residential | Non-Participating | 731345.22 | 4774667.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 462 | Residential | Non-Participating | 731257.63 | 4774430.58 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1105 | Residential | Non-Participating | 731435.68 | 4774877.87 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 484 | Residential | Non-Participating | 731410.23 | 4774783.16 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 69 | Residential | Non-Participating | 731081.44 | 4773946.96 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1028 | Residential | Non-Participating | 731628.78 | 4775862.55 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1106 | Residential | Non-Participating | 731485.26 | 4774905.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 23 | Residential | Non-Participating | 721496.48 | 4775161.42 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 76 | Residential | Non-Participating | 731148.87 | 4773927.79 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 6 | Residential | Non-Participating | 721445.68 | 4775152.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 5 | Residential | Non-Participating | 721438.57 | 4775223.58 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 29 | Residential | Non-Participating | 721418.14 | 4775276.00 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 204 | Residential | Non-Participating | 731561.89 | 4777454.80 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1108 | Residential | Non-Participating | 731563.43 | 4774956.90 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 33 | Residential | Non-Participating | 721402.66 | 4775323.35 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 4 | Residential | Non-Participating | 721358.43 | 4775598.79 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1104 | Residential | Non-Participating | 731558.04 | 4774875.78 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1021 | Residential | Non-Participating | 731716.15 | 4775919.65 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 38 | Residential | Non-Participating | 721388.89 | 4775368.01 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 41 | Residential | Non-Participating | 721377.25 | 4775438.39 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 46 | Residential | Non-Participating | 721357.27 | 4775527.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 45 | Residential | Non-Participating | 721350.75 | 4775475.19 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 74 | Residential | Non-Participating | 731225.66 | 4773949.56 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 12 | Residential | Non-Participating | 721436.97 | 4774870.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1109 | Residential | Non-Participating | 731614.94 | 4774986.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 15 | Residential | Non-Participating | 721398.19 | 4775073.21 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 22 | Residential | Non-Participating | 721375.37 | 4775152.74 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 31 | Residential | Non-Participating | 721342.77 | 4775305.43 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 35 | Residential | Non-Participating | 721342.73 | 4775335.40 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 221 | Residential | Non-Participating | 721281.29 | 4775855.13 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1107 | Residential | Non-Participating | 731631.99 | 4774936.63 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 337 | Residential | Non-Participating | 720805.19 | 4773233.34 | 2 | 14 | 19 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1 | Residential | Non-Participating | 721444.24 | 4774819.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 9 | Residential | Non-Participating | 721348.94 | 4775222.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1110 | Residential | Non-Participating | 731672.81 | 4775008.82 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 42 | Residential | Non-Participating | 721300.63 | 4775439.01 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1022 | Residential | Non-Participating | 731786.69 | 4775886.09 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 219 | Residential | Non-Participating | 721253.19 | 4775886.45 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 218 | Residential | Non-Participating | 721232.73 | 4776003.54 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 8 | Residential | Non-Participating | 721417.80 | 4774766.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 10 | Residential | Non-Participating | 721374.17 | 4774839.15 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 21 | Residential | Non-Participating | 721298.18 | 4775150.69 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 2 | Residential | Non-Participating | 721250.90 | 4775573.07 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 220 | Residential | Non-Participating | 721206.61 | 4775869.91 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 222 | Residential | Non-Participating | 721215.85 | 4775832.62 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 216 | Residential | Non-Participating | 721203.78 | 4776139.38 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1111 | Residential | Non-Participating | 731735.55 | 4775045.18 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1026 | Residential | Non-Participating | 731850.81 | 4775877.14 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 127 | Residential | Non-Participating | 721394.91 | 4774690.71 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1008 | Residential | Non-Participating | 731768.52 | 4775157.34 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 19 | Residential | Non-Participating | 721236.82 | 4775148.32 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 14 | Residential | Non-Participating | 721239.83 | 4775005.35 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1112 | Residential | Non-Participating | 731870.28 | 4775055.71 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1027 | Residential | Non-Participating | 731974.22 | 4775878.91 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 132 | Residential | Non-Participating | 721278.64 | 4774584.27 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 537 | Residential | Non-Participating | 721888.23 | 4773225.02 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1025 | Residential | Non-Participating | 732031.68 | 4775893.80 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1004 | Residential | Non-Participating | 731949.68 | 4775092.04 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 129 | Residential | Non-Participating | 721281.00 | 4774300.22 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 208 | Residential | Non-Participating | 731942.16 | 4777535.65 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1006 | Residential | Non-Participating | 732015.89 | 4775134.43 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 27 | Residential | Non-Participating | 721025.31 | 4775183.76 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1012 | Residential | Non-Participating | 732058.28 | 4775253.21 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 536 | Residential | Non-Participating | 721810.59 | 4773174.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1007 | Residential | Non-Participating | 732077.75 | 4775158.48 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 145 | Residential | Non-Participating | 731778.43 | 4774143.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 17 | Residential | Non-Participating | 720947.49 | 4775125.92 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1010 | Residential | Non-Participating | 732129.72 | 4775182.37 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 126 | Residential | Non-Participating | 721155.40 | 4774200.75 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 332 | Residential | Non-Participating | 721609.74 | 4773171.40 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1013 | Residential | Non-Participating | 732217.52 | 4775318.15 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1009 | Residential | Non-Participating | 732214.48 | 4775185.72 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 603 | Residential | Non-Participating | 732329.11 | 4776044.45 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 141 | Residential | Non-Participating | 731884.92 | 4774007.98 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 368 | Residential | Non-Participating | 721533.78 | 4773159.83 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 16 | Residential | Non-Participating | 720754.57 | 4775114.67 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 366 | Residential | Non-Participating | 721500.35 | 4773154.81 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 364 | Residential | Non-Participating | 721445.82 | 4773150.31 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 400 | Residential | Non-Participating | 732386.71 | 4775423.45 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 142 | Residential | Non-Participating | 732057.81 | 4774082.58 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 362 | Residential | Non-Participating | 721404.49 | 4773146.11 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |

**Table 7-5.1b: Unmitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 401 | Residential | Non-Participating | 732442.88 | 4775400.98 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 403 | Residential | Non-Participating | 732426.96 | 4775364.97 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 140 | Residential | Non-Participating | 732052.47 | 4774010.73 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 399 | Residential | Non-Participating | 732457.26 | 4775495.72 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 886 | Residential | Non-Participating | 732377.37 | 4777492.44 | 0 | 7 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 365 | Residential | Non-Participating | 721324.33 | 4773144.58 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 143 | Residential | Non-Participating | 732187.46 | 4774094.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 884 | Residential | Non-Participating | 732553.46 | 4777033.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 984 | Residential | Non-Participating | 720508.02 | 4775126.51 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 343 | Residential | Non-Participating | 720725.08 | 4773343.58 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 357 | Residential | Non-Participating | 720962.68 | 4773061.00 | 0 | 6 | 11 | 12 | 2 | 0 | 0 | 0 | 0 | 0 |
| 358 | Residential | Non-Participating | 720901.30 | 4773073.10 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 340 | Residential | Non-Participating | 720799.40 | 4773295.74 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 989 | Residential | Non-Participating | 720267.87 | 4774379.06 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 359 | Residential | Non-Participating | 720844.87 | 4773066.72 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 371 | Residential | Non-Participating | 720754.81 | 4773151.13 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 891 | Residential | Non-Participating | 732651.96 | 4777412.79 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 787 | Residential | Non-Participating | 732705.58 | 4776616.09 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **552** | **Residential** | **Non-Participating** | **726869.96** | **4776294.50** | **39** | **40** | **46** | **44** | **37** | **38** | **34** | **27** | **14** | **0** |
| **787** | **Residential** | **Non-Participating** | **732705.58** | **4776616.09** | **0** | **6** | **12** | **12** | **3** | **0** | **0** | **0** | **0** | **0** |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1 | Residential | Non-Participating | 721444.24 | 4774819.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 2 | Residential | Non-Participating | 721250.90 | 4775573.07 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 4 | Residential | Non-Participating | 721358.43 | 4775598.79 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 5 | Residential | Non-Participating | 721438.57 | 4775223.58 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 6 | Residential | Non-Participating | 721445.68 | 4775152.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 8 | Residential | Non-Participating | 721417.80 | 4774766.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 9 | Residential | Non-Participating | 721348.94 | 4775222.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 10 | Residential | Non-Participating | 721374.17 | 4774839.15 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 12 | Residential | Non-Participating | 721436.97 | 4774870.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 14 | Residential | Non-Participating | 721239.83 | 4775005.35 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 15 | Residential | Non-Participating | 721398.19 | 4775073.21 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 16 | Residential | Non-Participating | 720754.57 | 4775114.67 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 17 | Residential | Non-Participating | 720947.49 | 4775125.92 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 19 | Residential | Non-Participating | 721236.82 | 4775148.32 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 21 | Residential | Non-Participating | 721298.18 | 4775150.69 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 22 | Residential | Non-Participating | 721375.37 | 4775152.74 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 23 | Residential | Non-Participating | 721496.48 | 4775161.42 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 27 | Residential | Non-Participating | 721025.31 | 4775183.76 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 29 | Residential | Non-Participating | 721418.14 | 4775276.00 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 31 | Residential | Non-Participating | 721342.77 | 4775305.43 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 33 | Residential | Non-Participating | 721402.66 | 4775323.35 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 35 | Residential | Non-Participating | 721342.73 | 4775335.40 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 38 | Residential | Non-Participating | 721388.89 | 4775368.01 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 41 | Residential | Non-Participating | 721377.25 | 4775438.39 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 42 | Residential | Non-Participating | 721300.63 | 4775439.01 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 45 | Residential | Non-Participating | 721350.75 | 4775475.19 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 46 | Residential | Non-Participating | 721357.27 | 4775527.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 49 | Residential | Non-Participating | 729873.29 | 4775778.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 50 | Residential | Non-Participating | 729939.14 | 4775783.38 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 51 | Residential | Non-Participating | 729795.23 | 4775782.85 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 52 | Residential | Non-Participating | 729842.04 | 4775784.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 53 | Residential | Non-Participating | 729603.31 | 4775779.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 54 | Residential | Non-Participating | 730075.76 | 4775797.65 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 55 | Residential | Non-Participating | 730365.70 | 4775802.84 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 58 | Residential | Non-Participating | 730016.13 | 4775783.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 66 | Residential | Non-Participating | 730145.08 | 4775833.94 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 69 | Residential | Non-Participating | 731081.44 | 4773946.96 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 70 | Residential | Non-Participating | 730996.74 | 4773988.38 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 72 | Residential | Non-Participating | 730629.86 | 4773989.17 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 73 | Residential | Non-Participating | 730563.48 | 4773953.39 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 74 | Residential | Non-Participating | 731225.66 | 4773949.56 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 75 | Residential | Non-Participating | 730739.14 | 4773912.10 | 4 | 9 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 76 | Residential | Non-Participating | 731148.87 | 4773927.79 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 82 | Residential | Non-Participating | 725816.16 | 4771930.09 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 83 | Residential | Non-Participating | 725514.51 | 4771917.72 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 84 | Residential | Non-Participating | 725714.85 | 4771919.33 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 85 | Residential | Non-Participating | 725657.11 | 4771913.93 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 87 | Residential | Non-Participating | 725769.99 | 4771851.99 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 88 | Residential | Non-Participating | 725809.57 | 4771853.60 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 89 | Residential | Non-Participating | 725611.13 | 4771852.51 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 90 | Residential | Non-Participating | 726091.65 | 4771857.51 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 94 | Residential | Non-Participating | 726095.72 | 4771800.34 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 95 | Residential | Non-Participating | 726042.91 | 4771681.08 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 102 | Residential | Non-Participating | 725966.27 | 4772022.81 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 112 | Residential | Non-Participating | 722372.96 | 4775085.15 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 113 | Residential | Non-Participating | 722105.32 | 4775079.25 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 114 | Residential | Non-Participating | 722025.70 | 4775078.79 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 115 | Residential | Non-Participating | 722357.20 | 4775122.97 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 116 | Residential | Non-Participating | 721750.54 | 4775111.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 117 | Residential | Non-Participating | 721667.54 | 4775158.55 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 118 | Residential | Non-Participating | 721885.31 | 4775169.22 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 119 | Residential | Non-Participating | 722368.27 | 4775189.34 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 120 | Residential | Non-Participating | 721630.11 | 4775174.75 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 121 | Residential | Non-Participating | 721928.80 | 4775199.82 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 124 | Residential | Non-Participating | 722281.08 | 4775095.14 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 126 | Residential | Non-Participating | 721155.40 | 4774200.75 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 127 | Residential | Non-Participating | 721394.91 | 4774690.71 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 129 | Residential | Non-Participating | 721281.00 | 4774300.22 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 132 | Residential | Non-Participating | 721278.64 | 4774584.27 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 136 | Residential | Non-Participating | 721047.53 | 4774140.06 | 4 | 15 | 20 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 140 | Residential | Non-Participating | 732052.47 | 4774010.73 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 141 | Residential | Non-Participating | 731884.92 | 4774007.98 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 142 | Residential | Non-Participating | 732057.81 | 4774082.58 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 143 | Residential | Non-Participating | 732187.46 | 4774094.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 145 | Residential | Non-Participating | 731778.43 | 4774143.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 147 | Residential | Non-Participating | 724194.25 | 4777091.81 | 16 | 22 | 28 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 150 | Residential | Non-Participating | 723656.49 | 4773370.52 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 151 | Residential | Non-Participating | 723726.55 | 4773352.67 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 153 | Residential | Non-Participating | 724080.78 | 4773322.69 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 155 | Residential | Non-Participating | 723487.51 | 4773282.37 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 156 | Residential | Non-Participating | 723430.22 | 4773252.51 | 10 | 20 | 26 | 20 | 12 | 10 | 0 | 0 | 0 | 0 |
| 157 | Residential | Non-Participating | 724139.27 | 4773265.70 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 159 | Residential | Non-Participating | 723669.75 | 4773152.78 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 160 | Residential | Non-Participating | 723679.00 | 4773047.54 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 162 | Residential | Non-Participating | 724071.22 | 4773625.65 | 13 | 22 | 27 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 163 | Residential | Non-Participating | 724068.17 | 4773563.24 | 13 | 22 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 166 | Residential | Non-Participating | 723958.72 | 4773505.15 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 167 | Residential | Non-Participating | 723835.19 | 4773501.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 168 | Residential | Non-Participating | 723675.05 | 4773455.48 | 9 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 175 | Residential | Non-Participating | 729710.98 | 4776892.58 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 178 | Residential | Non-Participating | 729758.86 | 4776841.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 179 | Residential | Non-Participating | 730341.31 | 4777505.17 | 9 | 18 | 24 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 180 | Residential | Non-Participating | 730332.85 | 4777455.33 | 9 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 181 | Residential | Non-Participating | 730419.48 | 4777448.31 | 9 | 18 | 24 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 182 | Residential | Non-Participating | 730397.07 | 4777391.97 | 9 | 18 | 24 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 183 | Residential | Non-Participating | 730282.34 | 4777353.86 | 10 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 186 | Residential | Non-Participating | 730068.30 | 4777289.94 | 10 | 19 | 24 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 187 | Residential | Non-Participating | 730189.21 | 4777278.94 | 10 | 18 | 24 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 189 | Residential | Non-Participating | 729728.59 | 4777228.39 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 190 | Residential | Non-Participating | 729710.66 | 4777219.08 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 192 | Residential | Non-Participating | 730047.50 | 4777204.44 | 11 | 19 | 25 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 196 | Residential | Non-Participating | 729940.00 | 4777038.55 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 197 | Residential | Non-Participating | 729792.79 | 4776992.77 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 204 | Residential | Non-Participating | 731561.89 | 4777454.80 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 208 | Residential | Non-Participating | 731942.16 | 4777535.65 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 209 | Residential | Non-Participating | 726577.69 | 4773017.75 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 211 | Residential | Non-Participating | 726570.29 | 4772515.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 212 | Residential | Non-Participating | 726635.52 | 4772650.59 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 213 | Residential | Non-Participating | 726490.56 | 4772612.30 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 215 | Residential | Non-Participating | 726574.02 | 4772408.25 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 216 | Residential | Non-Participating | 721203.78 | 4776139.38 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 218 | Residential | Non-Participating | 721232.73 | 4776003.54 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 219 | Residential | Non-Participating | 721253.19 | 4775886.45 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 220 | Residential | Non-Participating | 721206.61 | 4775869.91 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 221 | Residential | Non-Participating | 721281.29 | 4775855.13 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 222 | Residential | Non-Participating | 721215.85 | 4775832.62 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 226 | Residential | Non-Participating | 728200.73 | 4773243.88 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 229 | Residential | Non-Participating | 727926.92 | 4773165.93 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 230 | Residential | Non-Participating | 728027.10 | 4773175.59 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 231 | Residential | Non-Participating | 728315.16 | 4773184.88 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 232 | Residential | Non-Participating | 727991.09 | 4773175.48 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 233 | Residential | Non-Participating | 728391.11 | 4773189.73 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 234 | Residential | Non-Participating | 728354.93 | 4773185.77 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 236 | Residential | Non-Participating | 727942.13 | 4773217.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 237 | Residential | Non-Participating | 727894.54 | 4773215.39 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 238 | Residential | Non-Participating | 727995.59 | 4773235.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 239 | Residential | Non-Participating | 728097.66 | 4773244.28 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 241 | Residential | Non-Participating | 727938.57 | 4773896.99 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 245 | Residential | Non-Participating | 727941.82 | 4773829.14 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 246 | Residential | Non-Participating | 728759.34 | 4773854.42 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 247 | Residential | Non-Participating | 728736.11 | 4773849.86 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 248 | Residential | Non-Participating | 728707.21 | 4773846.95 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 250 | Residential | Non-Participating | 728650.16 | 4773838.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 251 | Residential | Non-Participating | 728677.01 | 4773842.04 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 252 | Residential | Non-Participating | 728595.08 | 4773831.83 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 253 | Residential | Non-Participating | 728566.17 | 4773824.45 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 255 | Residential | Non-Participating | 728045.32 | 4773810.50 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 256 | Residential | Non-Participating | 728122.41 | 4773811.55 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 258 | Residential | Non-Participating | 728539.39 | 4773820.25 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 259 | Residential | Non-Participating | 728093.92 | 4773807.33 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 260 | Residential | Non-Participating | 728194.37 | 4773807.03 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 261 | Residential | Non-Participating | 728381.69 | 4773806.78 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 262 | Residential | Non-Participating | 728319.88 | 4773805.84 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 263 | Residential | Non-Participating | 728488.66 | 4773811.49 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 264 | Residential | Non-Participating | 728409.47 | 4773804.84 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 266 | Residential | Non-Participating | 728696.53 | 4773796.53 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 267 | Residential | Non-Participating | 728747.55 | 4773802.94 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 268 | Residential | Non-Participating | 728666.23 | 4773797.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 269 | Residential | Non-Participating | 728722.77 | 4773798.50 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 270 | Residential | Non-Participating | 728651.43 | 4773791.41 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 271 | Residential | Non-Participating | 728619.33 | 4773789.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 272 | Residential | Non-Participating | 728594.10 | 4773787.29 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 273 | Residential | Non-Participating | 728563.13 | 4773784.48 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 276 | Residential | Non-Participating | 728476.47 | 4773775.26 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 281 | Residential | Non-Participating | 728530.84 | 4773763.16 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 282 | Residential | Non-Participating | 728402.85 | 4773754.82 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 284 | Residential | Non-Participating | 728385.09 | 4773738.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 285 | Residential | Non-Participating | 728628.02 | 4773740.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 286 | Residential | Non-Participating | 728467.97 | 4773737.61 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 287 | Residential | Non-Participating | 728515.52 | 4773726.20 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 289 | Residential | Non-Participating | 728747.07 | 4773729.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 290 | Residential | Non-Participating | 728664.41 | 4773719.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 292 | Residential | Non-Participating | 728691.05 | 4773715.22 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 293 | Residential | Non-Participating | 728677.45 | 4773716.32 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 296 | Residential | Non-Participating | 728646.09 | 4773685.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 298 | Residential | Non-Participating | 728677.71 | 4773672.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 299 | Residential | Non-Participating | 728712.58 | 4773661.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 303 | Residential | Non-Participating | 728695.95 | 4773505.28 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 306 | Residential | Non-Participating | 728271.85 | 4773304.24 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 307 | Residential | Non-Participating | 728146.07 | 4773248.45 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 309 | Residential | Non-Participating | 728235.69 | 4773254.34 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 310 | Residential | Non-Participating | 730099.82 | 4774185.32 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 312 | Residential | Non-Participating | 730073.71 | 4774167.28 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 313 | Residential | Non-Participating | 729885.93 | 4774161.33 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 314 | Residential | Non-Participating | 729948.86 | 4774191.54 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 316 | Residential | Non-Participating | 730022.97 | 4774219.17 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 317 | Residential | Non-Participating | 730197.71 | 4774255.36 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 318 | Residential | Non-Participating | 730093.87 | 4774271.95 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 320 | Residential | Non-Participating | 730292.58 | 4774295.99 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 321 | Residential | Non-Participating | 730166.96 | 4774304.58 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 326 | Residential | Non-Participating | 730431.30 | 4774406.08 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 327 | Residential | Non-Participating | 730202.76 | 4774395.60 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 328 | Residential | Non-Participating | 730331.04 | 4774403.28 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 331 | Residential | Non-Participating | 730477.03 | 4774453.11 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 332 | Residential | Non-Participating | 721609.74 | 4773171.40 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 337 | Residential | Non-Participating | 720805.19 | 4773233.34 | 2 | 14 | 19 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 340 | Residential | Non-Participating | 720799.40 | 4773295.74 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 343 | Residential | Non-Participating | 720725.08 | 4773343.58 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 357 | Residential | Non-Participating | 720962.68 | 4773061.00 | 0 | 6 | 11 | 12 | 2 | 0 | 0 | 0 | 0 | 0 |
| 358 | Residential | Non-Participating | 720901.30 | 4773073.10 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 359 | Residential | Non-Participating | 720844.87 | 4773066.72 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 362 | Residential | Non-Participating | 721404.49 | 4773146.11 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 364 | Residential | Non-Participating | 721445.82 | 4773150.31 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 365 | Residential | Non-Participating | 721324.33 | 4773144.58 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 366 | Residential | Non-Participating | 721500.35 | 4773154.81 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 368 | Residential | Non-Participating | 721533.78 | 4773159.83 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 371 | Residential | Non-Participating | 720754.81 | 4773151.13 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 372 | Residential | Non-Participating | 729283.10 | 4774405.12 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 373 | Residential | Non-Participating | 729169.12 | 4774409.14 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 374 | Residential | Non-Participating | 729197.60 | 4774518.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 375 | Residential | Non-Participating | 729214.13 | 4774594.70 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 376 | Residential | Non-Participating | 729291.50 | 4774638.73 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 380 | Residential | Non-Participating | 729202.42 | 4774793.43 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 381 | Residential | Non-Participating | 729289.10 | 4774862.65 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 383 | Residential | Non-Participating | 729284.04 | 4774898.68 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 385 | Residential | Non-Participating | 729120.27 | 4774107.71 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 387 | Residential | Non-Participating | 729139.66 | 4774149.00 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 390 | Residential | Non-Participating | 729171.45 | 4774265.89 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 391 | Residential | Non-Participating | 729124.31 | 4774296.74 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 392 | Residential | Non-Participating | 728958.10 | 4774322.18 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 393 | Residential | Non-Participating | 729202.17 | 4774357.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 395 | Residential | Non-Participating | 729149.53 | 4774376.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 399 | Residential | Non-Participating | 732457.26 | 4775495.72 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 400 | Residential | Non-Participating | 732386.71 | 4775423.45 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 401 | Residential | Non-Participating | 732442.88 | 4775400.98 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 403 | Residential | Non-Participating | 732426.96 | 4775364.97 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 405 | Residential | Non-Participating | 726469.31 | 4774847.53 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 406 | Residential | Non-Participating | 725376.78 | 4773605.51 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 410 | Residential | Non-Participating | 725730.08 | 4773652.04 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 411 | Residential | Non-Participating | 725801.60 | 4773667.29 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 412 | Residential | Non-Participating | 725923.56 | 4773684.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 413 | Residential | Non-Participating | 725519.84 | 4773684.95 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 414 | Residential | Non-Participating | 725564.14 | 4773712.43 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 415 | Residential | Non-Participating | 725807.21 | 4773736.35 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 416 | Residential | Non-Participating | 725907.67 | 4773755.90 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 417 | Residential | Non-Participating | 725996.58 | 4773793.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 418 | Residential | Non-Participating | 725684.35 | 4773634.06 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 419 | Residential | Non-Participating | 726514.90 | 4774178.67 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 421 | Residential | Non-Participating | 731217.87 | 4774599.79 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 422 | Residential | Non-Participating | 731132.41 | 4774605.26 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 424 | Residential | Non-Participating | 722922.89 | 4775148.12 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 426 | Residential | Non-Participating | 722620.69 | 4775203.20 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 428 | Residential | Non-Participating | 722939.56 | 4775217.32 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 429 | Residential | Non-Participating | 722583.77 | 4775206.59 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 434 | Residential | Non-Participating | 722896.41 | 4775222.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 438 | Residential | Non-Participating | 729643.61 | 4776671.50 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 439 | Residential | Non-Participating | 729570.88 | 4776598.02 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 441 | Residential | Non-Participating | 728380.62 | 4774794.38 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 443 | Residential | Non-Participating | 728476.10 | 4774926.24 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 444 | Residential | Non-Participating | 728141.22 | 4773158.51 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 445 | Residential | Non-Participating | 728079.16 | 4773163.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 446 | Residential | Non-Participating | 728281.13 | 4773159.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 451 | Residential | Non-Participating | 728356.64 | 4772472.10 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 452 | Residential | Non-Participating | 728290.45 | 4772463.79 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 453 | Residential | Non-Participating | 728097.71 | 4772454.49 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 454 | Residential | Non-Participating | 728154.49 | 4772456.41 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 456 | Residential | Non-Participating | 731052.54 | 4774154.81 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 458 | Residential | Non-Participating | 731034.22 | 4774322.34 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 459 | Residential | Non-Participating | 731025.02 | 4774380.84 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 460 | Residential | Non-Participating | 731243.37 | 4774403.63 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 462 | Residential | Non-Participating | 731257.63 | 4774430.58 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 464 | Residential | Non-Participating | 731065.40 | 4774458.36 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 465 | Residential | Non-Participating | 730540.74 | 4774482.22 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 466 | Residential | Non-Participating | 730574.06 | 4774504.41 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 468 | Residential | Non-Participating | 730976.46 | 4774609.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 469 | Residential | Non-Participating | 731287.34 | 4774632.13 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 471 | Residential | Non-Participating | 730671.92 | 4774630.30 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 473 | Residential | Non-Participating | 731345.22 | 4774667.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 474 | Residential | Non-Participating | 730798.58 | 4774651.01 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 476 | Residential | Non-Participating | 730850.15 | 4774664.26 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 479 | Residential | Non-Participating | 731190.60 | 4774696.78 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 480 | Residential | Non-Participating | 731233.86 | 4774711.91 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 484 | Residential | Non-Participating | 731410.23 | 4774783.16 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 485 | Residential | Non-Participating | 731355.45 | 4774819.89 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 487 | Residential | Non-Participating | 731400.62 | 4774848.49 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 490 | Residential | Non-Participating | 725481.55 | 4775646.09 | 26 | 31 | 37 | 32 | 26 | 26 | 21 | 9 | 0 | 0 |
| 493 | Residential | Non-Participating | 725609.06 | 4775531.37 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 494 | Residential | Non-Participating | 726000.27 | 4775543.61 | 31 | 34 | 39 | 35 | 29 | 30 | 26 | 16 | 0 | 0 |
| 496 | Residential | Non-Participating | 725155.47 | 4775492.08 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 497 | Residential | Non-Participating | 726499.43 | 4773815.63 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 499 | Residential | Non-Participating | 726578.49 | 4773124.46 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 500 | Residential | Non-Participating | 726740.59 | 4773733.14 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 501 | Residential | Non-Participating | 726738.21 | 4773745.37 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 502 | Residential | Non-Participating | 726811.30 | 4773727.78 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 503 | Residential | Non-Participating | 726884.80 | 4773761.13 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 504 | Residential | Non-Participating | 726556.95 | 4773805.94 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 505 | Residential | Non-Participating | 728404.50 | 4776021.03 | 19 | 24 | 30 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 508 | Residential | Non-Participating | 728471.87 | 4776377.38 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 510 | Residential | Non-Participating | 728475.58 | 4776335.38 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 516 | Residential | Non-Participating | 731141.44 | 4775781.92 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 517 | Residential | Non-Participating | 730784.71 | 4775773.60 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 518 | Residential | Non-Participating | 731188.19 | 4775834.08 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 520 | Residential | Non-Participating | 725568.18 | 4776896.20 | 27 | 31 | 37 | 32 | 26 | 27 | 21 | 9 | 0 | 0 |
| 522 | Residential | Non-Participating | 725799.55 | 4776942.37 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 12 | 0 | 0 |
| 525 | Residential | Non-Participating | 725659.02 | 4776858.18 | 28 | 32 | 38 | 33 | 27 | 28 | 22 | 11 | 0 | 0 |
| 526 | Residential | Non-Participating | 725694.41 | 4776864.47 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 527 | Residential | Non-Participating | 725745.37 | 4776873.27 | 28 | 32 | 38 | 33 | 28 | 28 | 23 | 12 | 0 | 0 |
| 528 | Residential | Non-Participating | 722308.67 | 4773252.42 | 7 | 19 | 24 | 18 | 10 | 6 | 0 | 0 | 0 | 0 |
| 530 | Residential | Non-Participating | 722286.55 | 4772992.47 | 7 | 18 | 24 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 533 | Residential | Non-Participating | 722488.87 | 4773133.79 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 535 | Residential | Non-Participating | 721951.02 | 4773179.47 | 5 | 15 | 21 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 536 | Residential | Non-Participating | 721810.59 | 4773174.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 537 | Residential | Non-Participating | 721888.23 | 4773225.02 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 539 | Residential | Non-Participating | 729247.86 | 4776115.16 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 542 | Residential | Non-Participating | 729135.55 | 4776074.64 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 543 | Residential | Non-Participating | 729223.99 | 4776058.44 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 546 | Residential | Non-Participating | 729179.94 | 4775742.74 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 548 | Residential | Non-Participating | 729299.49 | 4775753.64 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 549 | Residential | Non-Participating | 729582.03 | 4775768.26 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 550 | Residential | Non-Participating | 729133.41 | 4775868.04 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 552 | Residential | Non-Participating | 726869.96 | 4776294.50 | 34 | 31 | 37 | 39 | 34 | 34 | 27 | 20 | 7 | 0 |
| 553 | Residential | Non-Participating | 726795.81 | 4775870.01 | 35 | 36 | 42 | 40 | 34 | 34 | 29 | 22 | 6 | 0 |
| 554 | Residential | Non-Participating | 729165.74 | 4775920.62 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 557 | Residential | Non-Participating | 729532.60 | 4776634.43 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 560 | Residential | Non-Participating | 729480.90 | 4776581.53 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 565 | Residential | Non-Participating | 729416.96 | 4776511.63 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 569 | Residential | Non-Participating | 729418.72 | 4776407.16 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 570 | Residential | Non-Participating | 729329.21 | 4776384.95 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 572 | Residential | Non-Participating | 729296.32 | 4776304.42 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 574 | Residential | Non-Participating | 729198.60 | 4775966.03 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 583 | Residential | Non-Participating | 729065.00 | 4775607.16 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 586 | Residential | Non-Participating | 729054.70 | 4775670.07 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 588 | Residential | Non-Participating | 729105.72 | 4775701.33 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 589 | Residential | Non-Participating | 729277.00 | 4775709.66 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 591 | Residential | Non-Participating | 729051.03 | 4775832.73 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 595 | Residential | Non-Participating | 729244.54 | 4775762.90 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 596 | Residential | Non-Participating | 729137.86 | 4775072.56 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 597 | Residential | Non-Participating | 729246.56 | 4775114.00 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 603 | Residential | Non-Participating | 732329.11 | 4776044.45 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 604 | Residential | Non-Participating | 728989.14 | 4773571.77 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 605 | Residential | Non-Participating | 728803.87 | 4773860.70 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 606 | Residential | Non-Participating | 728832.65 | 4773864.22 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 608 | Residential | Non-Participating | 728858.52 | 4773869.05 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 609 | Residential | Non-Participating | 729589.05 | 4773896.81 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 612 | Residential | Non-Participating | 728909.84 | 4773878.32 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 613 | Residential | Non-Participating | 728975.13 | 4773880.74 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 615 | Residential | Non-Participating | 729077.58 | 4773891.93 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 616 | Residential | Non-Participating | 728943.97 | 4773891.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 618 | Residential | Non-Participating | 729625.51 | 4773918.33 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 619 | Residential | Non-Participating | 729086.47 | 4773908.47 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 621 | Residential | Non-Participating | 729037.87 | 4773918.07 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 622 | Residential | Non-Participating | 729086.06 | 4773932.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 623 | Residential | Non-Participating | 729040.61 | 4773944.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 624 | Residential | Non-Participating | 729091.42 | 4773955.31 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 625 | Residential | Non-Participating | 729047.55 | 4773967.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 626 | Residential | Non-Participating | 729092.21 | 4773975.11 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 629 | Residential | Non-Participating | 729097.83 | 4773998.72 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 630 | Residential | Non-Participating | 729047.33 | 4773996.87 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 631 | Residential | Non-Participating | 729048.32 | 4774060.84 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 634 | Residential | Non-Participating | 729142.92 | 4773643.19 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 635 | Residential | Non-Participating | 728899.71 | 4773642.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 637 | Residential | Non-Participating | 729276.07 | 4773657.78 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 638 | Residential | Non-Participating | 729260.10 | 4773654.44 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 639 | Residential | Non-Participating | 728924.81 | 4773640.56 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 640 | Residential | Non-Participating | 728867.69 | 4773640.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 641 | Residential | Non-Participating | 728845.67 | 4773641.62 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 642 | Residential | Non-Participating | 729315.21 | 4773660.73 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 643 | Residential | Non-Participating | 729294.79 | 4773659.93 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 646 | Residential | Non-Participating | 729169.15 | 4773655.06 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 647 | Residential | Non-Participating | 729181.55 | 4773653.73 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 648 | Residential | Non-Participating | 729208.10 | 4773657.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 649 | Residential | Non-Participating | 728951.84 | 4773650.59 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 651 | Residential | Non-Participating | 728793.10 | 4773649.35 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 652 | Residential | Non-Participating | 729381.25 | 4773674.99 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 653 | Residential | Non-Participating | 729450.77 | 4773697.75 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 655 | Residential | Non-Participating | 728825.80 | 4773684.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 656 | Residential | Non-Participating | 728899.46 | 4773689.13 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 657 | Residential | Non-Participating | 728874.48 | 4773687.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 659 | Residential | Non-Participating | 729259.92 | 4773705.81 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 661 | Residential | Non-Participating | 728782.08 | 4773690.84 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 662 | Residential | Non-Participating | 729218.06 | 4773705.71 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 663 | Residential | Non-Participating | 729321.59 | 4773709.95 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 664 | Residential | Non-Participating | 728916.86 | 4773691.08 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 665 | Residential | Non-Participating | 729349.57 | 4773711.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 666 | Residential | Non-Participating | 729295.82 | 4773707.43 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 667 | Residential | Non-Participating | 728939.24 | 4773695.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 668 | Residential | Non-Participating | 729160.55 | 4773704.67 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 669 | Residential | Non-Participating | 728853.62 | 4773689.97 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 670 | Residential | Non-Participating | 729190.90 | 4773703.60 | 7 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 671 | Residential | Non-Participating | 729365.77 | 4773714.16 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 672 | Residential | Non-Participating | 729237.34 | 4773710.50 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 676 | Residential | Non-Participating | 729105.68 | 4773709.52 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 683 | Residential | Non-Participating | 729394.54 | 4773732.63 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 688 | Residential | Non-Participating | 729484.10 | 4773734.67 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 692 | Residential | Non-Participating | 729053.94 | 4773740.52 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 694 | Residential | Non-Participating | 729055.48 | 4773751.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 695 | Residential | Non-Participating | 729511.74 | 4773754.86 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 696 | Residential | Non-Participating | 729432.15 | 4773764.03 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 699 | Residential | Non-Participating | 729450.82 | 4773777.19 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 701 | Residential | Non-Participating | 729472.00 | 4773792.75 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 702 | Residential | Non-Participating | 729071.42 | 4773779.91 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 705 | Residential | Non-Participating | 729580.75 | 4773800.25 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 707 | Residential | Non-Participating | 729499.39 | 4773808.08 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 710 | Residential | Non-Participating | 729625.49 | 4773823.63 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 711 | Residential | Non-Participating | 728774.18 | 4773799.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 712 | Residential | Non-Participating | 728796.08 | 4773802.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 713 | Residential | Non-Participating | 728922.42 | 4773806.03 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 714 | Residential | Non-Participating | 728832.33 | 4773807.11 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 716 | Residential | Non-Participating | 729065.57 | 4773815.10 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 717 | Residential | Non-Participating | 728860.19 | 4773810.77 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 718 | Residential | Non-Participating | 729019.22 | 4773815.07 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 720 | Residential | Non-Participating | 729534.81 | 4773842.53 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 721 | Residential | Non-Participating | 729073.05 | 4773845.92 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 722 | Residential | Non-Participating | 729561.15 | 4773864.29 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 724 | Residential | Non-Participating | 729074.07 | 4773862.04 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 725 | Residential | Non-Participating | 729041.07 | 4773472.97 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 726 | Residential | Non-Participating | 728957.79 | 4773320.44 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 728 | Residential | Non-Participating | 729009.02 | 4773329.55 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 729 | Residential | Non-Participating | 729019.73 | 4773353.67 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 732 | Residential | Non-Participating | 728964.12 | 4773374.51 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 733 | Residential | Non-Participating | 728851.33 | 4773352.34 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 734 | Residential | Non-Participating | 729020.09 | 4773381.49 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 736 | Residential | Non-Participating | 728960.68 | 4773389.64 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 737 | Residential | Non-Participating | 729017.28 | 4773400.98 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 738 | Residential | Non-Participating | 728965.79 | 4773406.71 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 739 | Residential | Non-Participating | 728969.30 | 4773422.14 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 740 | Residential | Non-Participating | 729021.77 | 4773437.08 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 745 | Residential | Non-Participating | 728972.77 | 4773448.23 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 747 | Residential | Non-Participating | 729022.67 | 4773453.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 751 | Residential | Non-Participating | 728899.62 | 4773472.19 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 752 | Residential | Non-Participating | 728870.34 | 4773471.45 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 753 | Residential | Non-Participating | 728843.53 | 4773473.25 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 754 | Residential | Non-Participating | 728974.60 | 4773478.81 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 755 | Residential | Non-Participating | 728922.95 | 4773477.21 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 756 | Residential | Non-Participating | 729030.53 | 4773490.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 758 | Residential | Non-Participating | 729030.73 | 4773514.45 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 759 | Residential | Non-Participating | 728914.65 | 4773516.48 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 762 | Residential | Non-Participating | 728979.88 | 4773527.40 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 765 | Residential | Non-Participating | 729039.88 | 4773541.14 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 766 | Residential | Non-Participating | 728987.62 | 4773549.13 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 768 | Residential | Non-Participating | 728921.46 | 4773546.76 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 769 | Residential | Non-Participating | 729039.12 | 4773565.17 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 771 | Residential | Non-Participating | 728778.59 | 4773855.78 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 772 | Residential | Non-Participating | 729039.12 | 4773583.37 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 780 | Residential | Non-Participating | 729242.79 | 4773656.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 781 | Residential | Non-Participating | 729455.01 | 4777793.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 782 | Residential | Non-Participating | 729358.86 | 4777674.71 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 786 | Residential | Non-Participating | 729347.61 | 4777805.09 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 787 | Residential | Non-Participating | 732705.58 | 4776616.09 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 791 | Residential | Non-Participating | 724404.54 | 4774343.97 | 16 | 24 | 29 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 792 | Residential | Non-Participating | 726264.37 | 4777056.36 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |
| 793 | Residential | Non-Participating | 726819.44 | 4776889.60 | 32 | 35 | 41 | 36 | 31 | 31 | 27 | 18 | 0 | 0 |
| 795 | Residential | Non-Participating | 726791.37 | 4777222.00 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 796 | Residential | Non-Participating | 726523.80 | 4777148.13 | 30 | 33 | 39 | 34 | 29 | 29 | 25 | 15 | 0 | 0 |
| 800 | Residential | Non-Participating | 726341.01 | 4777087.79 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 801 | Residential | Non-Participating | 727758.11 | 4777459.63 | 17 | 17 | 23 | 25 | 19 | 17 | 8 | 0 | 0 | 0 |
| 803 | Residential | Non-Participating | 727914.34 | 4777440.42 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 804 | Residential | Non-Participating | 728010.95 | 4777435.68 | 16 | 17 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 806 | Residential | Non-Participating | 728326.02 | 4777429.36 | 14 | 16 | 21 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 807 | Residential | Non-Participating | 728401.19 | 4777423.79 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 809 | Residential | Non-Participating | 728423.69 | 4777411.44 | 17 | 23 | 29 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 811 | Residential | Non-Participating | 728104.85 | 4777386.29 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 812 | Residential | Non-Participating | 728407.33 | 4777381.45 | 17 | 23 | 29 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 813 | Residential | Non-Participating | 728412.48 | 4777332.87 | 17 | 23 | 29 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 815 | Residential | Non-Participating | 728267.18 | 4777256.79 | 18 | 24 | 30 | 25 | 19 | 19 | 11 | 0 | 0 | 0 |
| 816 | Residential | Non-Participating | 728415.93 | 4777190.55 | 18 | 24 | 29 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 818 | Residential | Non-Participating | 728360.22 | 4776876.53 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 820 | Residential | Non-Participating | 728376.17 | 4776814.25 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 824 | Residential | Non-Participating | 728342.73 | 4777577.48 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 825 | Residential | Non-Participating | 727894.73 | 4777525.91 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 828 | Residential | Non-Participating | 728192.45 | 4777492.34 | 15 | 16 | 22 | 23 | 17 | 15 | 5 | 0 | 0 | 0 |
| 829 | Residential | Non-Participating | 728257.16 | 4777490.59 | 14 | 16 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 832 | Residential | Non-Participating | 728575.25 | 4775727.93 | 15 | 16 | 22 | 23 | 17 | 15 | 5 | 0 | 0 | 0 |
| 833 | Residential | Non-Participating | 728211.67 | 4775698.67 | 22 | 28 | 34 | 28 | 22 | 22 | 15 | 0 | 0 | 0 |
| 834 | Residential | Non-Participating | 727838.78 | 4775509.90 | 19 | 19 | 25 | 26 | 20 | 19 | 10 | 0 | 0 | 0 |
| 835 | Residential | Non-Participating | 728639.12 | 4774987.30 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 836 | Residential | Non-Participating | 728368.23 | 4775786.01 | 21 | 27 | 33 | 27 | 22 | 21 | 14 | 0 | 0 | 0 |
| 839 | Residential | Non-Participating | 727864.06 | 4775670.46 | 19 | 19 | 25 | 26 | 21 | 19 | 11 | 0 | 0 | 0 |
| 840 | Residential | Non-Participating | 728127.66 | 4775688.34 | 22 | 28 | 34 | 29 | 23 | 23 | 16 | 1 | 0 | 0 |
| 842 | Residential | Non-Participating | 726097.96 | 4775544.41 | 31 | 34 | 40 | 36 | 30 | 31 | 25 | 16 | 0 | 0 |
| 843 | Residential | Non-Participating | 726186.70 | 4775551.91 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 844 | Residential | Non-Participating | 726843.52 | 4775544.44 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 845 | Residential | Non-Participating | 726166.32 | 4775500.75 | 25 | 24 | 30 | 32 | 26 | 26 | 18 | 8 | 0 | 0 |
| 847 | Residential | Non-Participating | 726103.38 | 4775468.76 | 30 | 34 | 39 | 35 | 29 | 30 | 24 | 15 | 0 | 0 |
| 849 | Residential | Non-Participating | 726529.56 | 4775276.07 | 29 | 33 | 39 | 34 | 29 | 29 | 23 | 13 | 0 | 0 |
| 851 | Residential | Non-Participating | 726814.49 | 4775602.44 | 32 | 35 | 41 | 37 | 32 | 32 | 27 | 18 | 0 | 0 |
| 852 | Residential | Non-Participating | 726270.41 | 4775560.52 | 32 | 35 | 41 | 37 | 31 | 32 | 27 | 18 | 0 | 0 |
| 858 | Residential | Non-Participating | 726986.39 | 4773765.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 859 | Residential | Non-Participating | 727055.40 | 4773757.04 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 862 | Residential | Non-Participating | 727834.62 | 4773223.80 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 864 | Residential | Non-Participating | 727766.80 | 4773162.33 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 868 | Residential | Non-Participating | 731078.39 | 4777513.27 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 870 | Residential | Non-Participating | 731171.34 | 4777483.67 | 4 | 8 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 871 | Residential | Non-Participating | 730509.26 | 4777463.86 | 9 | 18 | 23 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 872 | Residential | Non-Participating | 730481.84 | 4777399.25 | 9 | 18 | 23 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 874 | Residential | Non-Participating | 731023.49 | 4777311.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 877 | Residential | Non-Participating | 730447.25 | 4777603.88 | 9 | 18 | 23 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 879 | Residential | Non-Participating | 727826.21 | 4773150.33 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 883 | Residential | Non-Participating | 727651.78 | 4772425.03 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 884 | Residential | Non-Participating | 732553.46 | 4777033.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 886 | Residential | Non-Participating | 732377.37 | 4777492.44 | 0 | 7 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 891 | Residential | Non-Participating | 732651.96 | 4777412.79 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 894 | Residential | Non-Participating | 724048.81 | 4776152.22 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 895 | Residential | Non-Participating | 723752.10 | 4776273.13 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 897 | Residential | Non-Participating | 723980.32 | 4776307.97 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 900 | Residential | Non-Participating | 723984.23 | 4775852.95 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 903 | Residential | Non-Participating | 723921.69 | 4775711.12 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 904 | Residential | Non-Participating | 730095.90 | 4773922.65 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 905 | Residential | Non-Participating | 729888.62 | 4773911.94 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 906 | Residential | Non-Participating | 729995.07 | 4773916.38 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 908 | Residential | Non-Participating | 729911.65 | 4773839.21 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 909 | Residential | Non-Participating | 729712.95 | 4773832.38 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 920 | Residential | Non-Participating | 723997.57 | 4774755.07 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 921 | Residential | Non-Participating | 724092.78 | 4774797.29 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 923 | Residential | Non-Participating | 724027.26 | 4774679.50 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 925 | Residential | Non-Participating | 724018.80 | 4774531.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 928 | Residential | Non-Participating | 724119.23 | 4774141.79 | 14 | 23 | 28 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 930 | Residential | Non-Participating | 724117.78 | 4774089.47 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 931 | Residential | Non-Participating | 724115.08 | 4774024.30 | 14 | 22 | 28 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 933 | Residential | Non-Participating | 724026.34 | 4774741.38 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 935 | Residential | Non-Participating | 724019.88 | 4774697.99 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 937 | Residential | Non-Participating | 727182.20 | 4772189.68 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 943 | Residential | Non-Participating | 729667.73 | 4777744.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 944 | Residential | Non-Participating | 729806.46 | 4777731.62 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 946 | Residential | Non-Participating | 729594.72 | 4777803.68 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 947 | Residential | Non-Participating | 729885.26 | 4777836.49 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 952 | Residential | Non-Participating | 727747.66 | 4775660.04 | 20 | 20 | 26 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 955 | Residential | Non-Participating | 726969.30 | 4775538.77 | 31 | 34 | 40 | 35 | 30 | 30 | 25 | 16 | 0 | 0 |
| 957 | Residential | Non-Participating | 727646.72 | 4775424.59 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 961 | Residential | Non-Participating | 724348.24 | 4773639.01 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 967 | Residential | Non-Participating | 724920.33 | 4773638.00 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 968 | Residential | Non-Participating | 725009.91 | 4773598.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 970 | Residential | Non-Participating | 724584.50 | 4773579.17 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 971 | Residential | Non-Participating | 724528.67 | 4773576.47 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 972 | Residential | Non-Participating | 724634.12 | 4773578.39 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 973 | Residential | Non-Participating | 724842.58 | 4773565.86 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 975 | Residential | Non-Participating | 724481.40 | 4773563.69 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 977 | Residential | Non-Participating | 725056.87 | 4773660.84 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 978 | Residential | Non-Participating | 724539.98 | 4773639.39 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 979 | Residential | Non-Participating | 725089.55 | 4773656.21 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 980 | Residential | Non-Participating | 724380.17 | 4773634.41 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 982 | Residential | Non-Participating | 724649.21 | 4773632.27 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 984 | Residential | Non-Participating | 720508.02 | 4775126.51 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 986 | Residential | Non-Participating | 720358.20 | 4775145.63 | 5 | 17 | 22 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 989 | Residential | Non-Participating | 720267.87 | 4774379.06 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 992 | Residential | Non-Participating | 728658.15 | 4777494.01 | 16 | 22 | 28 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 994 | Residential | Non-Participating | 728752.89 | 4777569.26 | 15 | 22 | 28 | 23 | 17 | 15 | 7 | 0 | 0 | 0 |
| 996 | Residential | Non-Participating | 728966.88 | 4777521.23 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 998 | Residential | Non-Participating | 720318.81 | 4775101.03 | 4 | 17 | 22 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 999 | Residential | Non-Participating | 723238.68 | 4777217.14 | 13 | 22 | 28 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1001 | Residential | Non-Participating | 724138.29 | 4776719.32 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1002 | Residential | Non-Participating | 724112.41 | 4776676.54 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1004 | Residential | Non-Participating | 731949.68 | 4775092.04 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1005 | Residential | Non-Participating | 731414.47 | 4775435.67 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1006 | Residential | Non-Participating | 732015.89 | 4775134.43 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1007 | Residential | Non-Participating | 732077.75 | 4775158.48 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1008 | Residential | Non-Participating | 731768.52 | 4775157.34 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1009 | Residential | Non-Participating | 732214.48 | 4775185.72 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1010 | Residential | Non-Participating | 732129.72 | 4775182.37 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1012 | Residential | Non-Participating | 732058.28 | 4775253.21 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1013 | Residential | Non-Participating | 732217.52 | 4775318.15 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1015 | Residential | Non-Participating | 731409.03 | 4775371.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1016 | Residential | Non-Participating | 731409.24 | 4775519.08 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1017 | Residential | Non-Participating | 731435.10 | 4775555.01 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1021 | Residential | Non-Participating | 731716.15 | 4775919.65 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1022 | Residential | Non-Participating | 731786.69 | 4775886.09 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1024 | Residential | Non-Participating | 731570.63 | 4775882.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1025 | Residential | Non-Participating | 732031.68 | 4775893.80 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1026 | Residential | Non-Participating | 731850.81 | 4775877.14 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1027 | Residential | Non-Participating | 731974.22 | 4775878.91 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1028 | Residential | Non-Participating | 731628.78 | 4775862.55 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1029 | Residential | Non-Participating | 731402.56 | 4775687.63 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1031 | Residential | Non-Participating | 731478.97 | 4775678.66 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1032 | Residential | Non-Participating | 731470.63 | 4775613.43 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1033 | Residential | Non-Participating | 731422.69 | 4775589.11 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1034 | Residential | Non-Participating | 724039.87 | 4776802.82 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1035 | Residential | Non-Participating | 724101.91 | 4776826.46 | 18 | 25 | 31 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1036 | Residential | Non-Participating | 724028.14 | 4776823.66 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1037 | Residential | Non-Participating | 724083.81 | 4776851.94 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1038 | Residential | Non-Participating | 724066.58 | 4776893.30 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1039 | Residential | Non-Participating | 723626.37 | 4776890.34 | 15 | 23 | 29 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1041 | Residential | Non-Participating | 724103.33 | 4776926.16 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1042 | Residential | Non-Participating | 724089.99 | 4776926.37 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 1043 | Residential | Non-Participating | 724107.74 | 4776965.68 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 1046 | Residential | Non-Participating | 724105.85 | 4776778.13 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1047 | Residential | Non-Participating | 724113.10 | 4776751.93 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1050 | Residential | Non-Participating | 726587.25 | 4772092.90 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1051 | Residential | Non-Participating | 726573.79 | 4772129.48 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1052 | Residential | Non-Participating | 726798.67 | 4772157.07 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1058 | Residential | Non-Participating | 724354.68 | 4775435.75 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 1060 | Residential | Non-Participating | 724243.16 | 4775441.34 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1061 | Residential | Non-Participating | 724317.11 | 4775448.45 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1063 | Residential | Non-Participating | 724845.42 | 4775474.56 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 1071 | Residential | Non-Participating | 724590.80 | 4775547.88 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1073 | Residential | Non-Participating | 724236.00 | 4775389.93 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1074 | Residential | Non-Participating | 724302.42 | 4775395.71 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1076 | Residential | Non-Participating | 724964.74 | 4775391.51 | 17 | 17 | 23 | 25 | 18 | 17 | 8 | 0 | 0 | 0 |
| 1078 | Residential | Non-Participating | 724799.23 | 4775151.53 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1090 | Residential | Non-Participating | 728286.80 | 4777947.38 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 1094 | Residential | Non-Participating | 730546.38 | 4777725.26 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 1096 | Residential | Non-Participating | 730614.49 | 4778344.91 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1097 | Residential | Non-Participating | 730691.19 | 4778401.67 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1100 | Residential | Non-Participating | 730614.75 | 4778452.56 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1104 | Residential | Non-Participating | 731558.04 | 4774875.78 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1105 | Residential | Non-Participating | 731435.68 | 4774877.87 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1106 | Residential | Non-Participating | 731485.26 | 4774905.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1107 | Residential | Non-Participating | 731631.99 | 4774936.63 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1108 | Residential | Non-Participating | 731563.43 | 4774956.90 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1109 | Residential | Non-Participating | 731614.94 | 4774986.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1110 | Residential | Non-Participating | 731672.81 | 4775008.82 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1111 | Residential | Non-Participating | 731735.55 | 4775045.18 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1112 | Residential | Non-Participating | 731870.28 | 4775055.71 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1115 | Residential | Non-Participating | 723980.93 | 4775590.81 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1117 | Residential | Non-Participating | 723869.54 | 4775409.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1118 | Residential | Non-Participating | 724018.76 | 4775410.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1119 | Residential | Non-Participating | 723925.93 | 4775409.25 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1120 | Residential | Non-Participating | 723723.24 | 4775401.57 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1121 | Residential | Non-Participating | 723904.36 | 4775405.38 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1123 | Residential | Non-Participating | 723978.12 | 4775407.15 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1124 | Residential | Non-Participating | 724091.10 | 4775377.84 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1125 | Residential | Non-Participating | 724062.58 | 4775375.51 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1128 | Residential | Non-Participating | 723986.51 | 4775560.82 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1133 | Residential | Non-Participating | 724013.07 | 4774868.60 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1134 | Residential | Non-Participating | 724019.70 | 4774833.10 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1141 | Residential | Non-Participating | 724203.14 | 4775432.29 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1142 | Residential | Non-Participating | 724128.40 | 4775425.80 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 1144 | Residential | Non-Participating | 724057.56 | 4775423.59 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1146 | Residential | Non-Participating | 723628.31 | 4775362.25 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1147 | Residential | Non-Participating | 723976.67 | 4775374.91 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |

**Table 7-5.2a: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Receptor ID [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 1148 | Residential | Non-Participating | 723951.89 | 4775370.80 | 11 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1149 | Residential | Non-Participating | 723882.86 | 4775366.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1150 | Residential | Non-Participating | 723970.79 | 4775503.66 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1151 | Residential | Non-Participating | 723996.62 | 4775356.90 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1156 | Residential | Non-Participating | 723988.28 | 4775310.70 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1160 | Residential | Non-Participating | 723404.91 | 4775233.87 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 1161 | Residential | Non-Participating | 723727.22 | 4775204.79 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1164 | Residential | Non-Participating | 722733.09 | 4773217.91 | 8 | 19 | 25 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 1166 | Residential | Non-Participating | 723345.91 | 4773213.76 | 10 | 20 | 26 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 1167 | Residential | Non-Participating | 722686.66 | 4773151.26 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 1169 | Residential | Non-Participating | 722619.71 | 4773148.87 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 1170 | Residential | Non-Participating | 722930.96 | 4773236.57 | 9 | 19 | 25 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1176 | Residential | Non-Participating | 727473.19 | 4777362.36 | 24 | 29 | 35 | 30 | 24 | 24 | 18 | 4 | 0 | 0 |
| 1178 | Residential | Non-Participating | 727341.32 | 4777309.54 | 25 | 30 | 36 | 31 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1181 | Residential | Non-Participating | 727424.83 | 4777261.94 | 25 | 30 | 36 | 30 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1182 | Residential | Non-Participating | 727143.38 | 4777202.69 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 1184 | Residential | Non-Participating | 726878.49 | 4777103.97 | 29 | 33 | 39 | 34 | 28 | 29 | 24 | 13 | 0 | 0 |
| 1185 | Residential | Non-Participating | 727168.71 | 4777318.85 | 26 | 30 | 36 | 31 | 26 | 26 | 20 | 7 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **553** | **Residential** | **Non-Participating** | **726795.81** | **4775870.01** | **35** | **36** | **42** | **40** | **34** | **34** | **29** | **22** | **6** | **0** |
| **787** | **Residential** | **Non-Participating** | **732705.58** | **4776616.09** | **0** | **6** | **12** | **12** | **3** | **0** | **0** | **0** | **0** | **0** |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 553 | Residential | Non-Participating | 726795.81 | 4775870.01 | 35 | 36 | 42 | 40 | 34 | 34 | 29 | 22 | 6 | 0 |
| 552 | Residential | Non-Participating | 726869.96 | 4776294.50 | 34 | 31 | 37 | 39 | 34 | 34 | 27 | 20 | 7 | 0 |
| 851 | Residential | Non-Participating | 726814.49 | 4775602.44 | 32 | 35 | 41 | 37 | 32 | 32 | 27 | 18 | 0 | 0 |
| 852 | Residential | Non-Participating | 726270.41 | 4775560.52 | 32 | 35 | 41 | 37 | 31 | 32 | 27 | 18 | 0 | 0 |
| 793 | Residential | Non-Participating | 726819.44 | 4776889.60 | 32 | 35 | 41 | 36 | 31 | 31 | 27 | 18 | 0 | 0 |
| 843 | Residential | Non-Participating | 726186.70 | 4775551.91 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 844 | Residential | Non-Participating | 726843.52 | 4775544.44 | 31 | 35 | 41 | 36 | 31 | 31 | 26 | 17 | 0 | 0 |
| 842 | Residential | Non-Participating | 726097.96 | 4775544.41 | 31 | 34 | 40 | 36 | 30 | 31 | 25 | 16 | 0 | 0 |
| 955 | Residential | Non-Participating | 726969.30 | 4775538.77 | 31 | 34 | 40 | 35 | 30 | 30 | 25 | 16 | 0 | 0 |
| 494 | Residential | Non-Participating | 726000.27 | 4775543.61 | 31 | 34 | 39 | 35 | 29 | 30 | 26 | 16 | 0 | 0 |
| 847 | Residential | Non-Participating | 726103.38 | 4775468.76 | 30 | 34 | 39 | 35 | 29 | 30 | 24 | 15 | 0 | 0 |
| 792 | Residential | Non-Participating | 726264.37 | 4777056.36 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |
| 800 | Residential | Non-Participating | 726341.01 | 4777087.79 | 30 | 33 | 39 | 35 | 29 | 30 | 24 | 14 | 0 | 0 |
| 796 | Residential | Non-Participating | 726523.80 | 4777148.13 | 30 | 33 | 39 | 34 | 29 | 29 | 25 | 15 | 0 | 0 |
| 849 | Residential | Non-Participating | 726529.56 | 4775276.07 | 29 | 33 | 39 | 34 | 29 | 29 | 23 | 13 | 0 | 0 |
| 1184 | Residential | Non-Participating | 726878.49 | 4777103.97 | 29 | 33 | 39 | 34 | 28 | 29 | 24 | 13 | 0 | 0 |
| 527 | Residential | Non-Participating | 725745.37 | 4776873.27 | 28 | 32 | 38 | 33 | 28 | 28 | 23 | 12 | 0 | 0 |
| 522 | Residential | Non-Participating | 725799.55 | 4776942.37 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 12 | 0 | 0 |
| 795 | Residential | Non-Participating | 726791.37 | 4777222.00 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 526 | Residential | Non-Participating | 725694.41 | 4776864.47 | 28 | 32 | 38 | 33 | 28 | 28 | 22 | 11 | 0 | 0 |
| 525 | Residential | Non-Participating | 725659.02 | 4776858.18 | 28 | 32 | 38 | 33 | 27 | 28 | 22 | 11 | 0 | 0 |
| 493 | Residential | Non-Participating | 725609.06 | 4775531.37 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 1182 | Residential | Non-Participating | 727143.38 | 4777202.69 | 27 | 31 | 37 | 32 | 27 | 27 | 21 | 9 | 0 | 0 |
| 520 | Residential | Non-Participating | 725568.18 | 4776896.20 | 27 | 31 | 37 | 32 | 26 | 27 | 21 | 9 | 0 | 0 |
| 490 | Residential | Non-Participating | 725481.55 | 4775646.09 | 26 | 31 | 37 | 32 | 26 | 26 | 21 | 9 | 0 | 0 |
| 1185 | Residential | Non-Participating | 727168.71 | 4777318.85 | 26 | 30 | 36 | 31 | 26 | 26 | 20 | 7 | 0 | 0 |
| 845 | Residential | Non-Participating | 726166.32 | 4775500.75 | 25 | 24 | 30 | 32 | 26 | 26 | 18 | 8 | 0 | 0 |
| 1178 | Residential | Non-Participating | 727341.32 | 4777309.54 | 25 | 30 | 36 | 31 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1181 | Residential | Non-Participating | 727424.83 | 4777261.94 | 25 | 30 | 36 | 30 | 25 | 25 | 19 | 6 | 0 | 0 |
| 1176 | Residential | Non-Participating | 727473.19 | 4777362.36 | 24 | 29 | 35 | 30 | 24 | 24 | 18 | 4 | 0 | 0 |
| 840 | Residential | Non-Participating | 728127.66 | 4775688.34 | 22 | 28 | 34 | 29 | 23 | 23 | 16 | 1 | 0 | 0 |
| 833 | Residential | Non-Participating | 728211.67 | 4775698.67 | 22 | 28 | 34 | 28 | 22 | 22 | 15 | 0 | 0 | 0 |
| 836 | Residential | Non-Participating | 728368.23 | 4775786.01 | 21 | 27 | 33 | 27 | 22 | 21 | 14 | 0 | 0 | 0 |
| 952 | Residential | Non-Participating | 727747.66 | 4775660.04 | 20 | 20 | 26 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 405 | Residential | Non-Participating | 726469.31 | 4774847.53 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 957 | Residential | Non-Participating | 727646.72 | 4775424.59 | 20 | 19 | 25 | 27 | 21 | 20 | 12 | 0 | 0 | 0 |
| 505 | Residential | Non-Participating | 728404.50 | 4776021.03 | 19 | 24 | 30 | 26 | 20 | 19 | 12 | 0 | 0 | 0 |
| 839 | Residential | Non-Participating | 727864.06 | 4775670.46 | 19 | 19 | 25 | 26 | 21 | 19 | 11 | 0 | 0 | 0 |
| 834 | Residential | Non-Participating | 727838.78 | 4775509.90 | 19 | 19 | 25 | 26 | 20 | 19 | 10 | 0 | 0 | 0 |
| 815 | Residential | Non-Participating | 728267.18 | 4777256.79 | 18 | 24 | 30 | 25 | 19 | 19 | 11 | 0 | 0 | 0 |
| 496 | Residential | Non-Participating | 725155.47 | 4775492.08 | 18 | 18 | 24 | 26 | 20 | 18 | 10 | 0 | 0 | 0 |
| 816 | Residential | Non-Participating | 728415.93 | 4777190.55 | 18 | 24 | 29 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1001 | Residential | Non-Participating | 724138.29 | 4776719.32 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1002 | Residential | Non-Participating | 724112.41 | 4776676.54 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1047 | Residential | Non-Participating | 724113.10 | 4776751.93 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1046 | Residential | Non-Participating | 724105.85 | 4776778.13 | 18 | 25 | 31 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1035 | Residential | Non-Participating | 724101.91 | 4776826.46 | 18 | 25 | 31 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 813 | Residential | Non-Participating | 728412.48 | 4777332.87 | 17 | 23 | 29 | 25 | 19 | 18 | 10 | 0 | 0 | 0 |
| 1037 | Residential | Non-Participating | 724083.81 | 4776851.94 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1041 | Residential | Non-Participating | 724103.33 | 4776926.16 | 17 | 25 | 30 | 25 | 19 | 18 | 9 | 0 | 0 | 0 |
| 1043 | Residential | Non-Participating | 724107.74 | 4776965.68 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 812 | Residential | Non-Participating | 728407.33 | 4777381.45 | 17 | 23 | 29 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 1042 | Residential | Non-Participating | 724089.99 | 4776926.37 | 17 | 25 | 30 | 25 | 19 | 17 | 9 | 0 | 0 | 0 |
| 897 | Residential | Non-Participating | 723980.32 | 4776307.97 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1034 | Residential | Non-Participating | 724039.87 | 4776802.82 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1038 | Residential | Non-Participating | 724066.58 | 4776893.30 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 1036 | Residential | Non-Participating | 724028.14 | 4776823.66 | 17 | 25 | 30 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 809 | Residential | Non-Participating | 728423.69 | 4777411.44 | 17 | 23 | 29 | 25 | 18 | 17 | 9 | 0 | 0 | 0 |
| 801 | Residential | Non-Participating | 727758.11 | 4777459.63 | 17 | 17 | 23 | 25 | 19 | 17 | 8 | 0 | 0 | 0 |
| 1076 | Residential | Non-Participating | 724964.74 | 4775391.51 | 17 | 17 | 23 | 25 | 18 | 17 | 8 | 0 | 0 | 0 |
| 1063 | Residential | Non-Participating | 724845.42 | 4775474.56 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 895 | Residential | Non-Participating | 723752.10 | 4776273.13 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 803 | Residential | Non-Participating | 727914.34 | 4777440.42 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 996 | Residential | Non-Participating | 728966.88 | 4777521.23 | 16 | 24 | 30 | 24 | 18 | 16 | 8 | 0 | 0 | 0 |
| 791 | Residential | Non-Participating | 724404.54 | 4774343.97 | 16 | 24 | 29 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 825 | Residential | Non-Participating | 727894.73 | 4777525.91 | 16 | 17 | 23 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 992 | Residential | Non-Participating | 728658.15 | 4777494.01 | 16 | 22 | 28 | 24 | 17 | 16 | 7 | 0 | 0 | 0 |
| 804 | Residential | Non-Participating | 728010.95 | 4777435.68 | 16 | 17 | 22 | 24 | 18 | 16 | 7 | 0 | 0 | 0 |
| 147 | Residential | Non-Participating | 724194.25 | 4777091.81 | 16 | 22 | 28 | 23 | 17 | 16 | 7 | 0 | 0 | 0 |
| 820 | Residential | Non-Participating | 728376.17 | 4776814.25 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 818 | Residential | Non-Participating | 728360.22 | 4776876.53 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 508 | Residential | Non-Participating | 728471.87 | 4776377.38 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 510 | Residential | Non-Participating | 728475.58 | 4776335.38 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 811 | Residential | Non-Participating | 728104.85 | 4777386.29 | 16 | 16 | 22 | 24 | 17 | 16 | 6 | 0 | 0 | 0 |
| 994 | Residential | Non-Participating | 728752.89 | 4777569.26 | 15 | 22 | 28 | 23 | 17 | 15 | 7 | 0 | 0 | 0 |
| 1039 | Residential | Non-Participating | 723626.37 | 4776890.34 | 15 | 23 | 29 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1078 | Residential | Non-Participating | 724799.23 | 4775151.53 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 419 | Residential | Non-Participating | 726514.90 | 4774178.67 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 1071 | Residential | Non-Participating | 724590.80 | 4775547.88 | 15 | 16 | 22 | 23 | 17 | 15 | 6 | 0 | 0 | 0 |
| 828 | Residential | Non-Participating | 728192.45 | 4777492.34 | 15 | 16 | 22 | 23 | 17 | 15 | 5 | 0 | 0 | 0 |
| 832 | Residential | Non-Participating | 728575.25 | 4775727.93 | 15 | 16 | 22 | 23 | 17 | 15 | 5 | 0 | 0 | 0 |
| 829 | Residential | Non-Participating | 728257.16 | 4777490.59 | 14 | 16 | 21 | 23 | 16 | 15 | 5 | 0 | 0 | 0 |
| 928 | Residential | Non-Participating | 724119.23 | 4774141.79 | 14 | 23 | 28 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 806 | Residential | Non-Participating | 728326.02 | 4777429.36 | 14 | 16 | 21 | 23 | 16 | 14 | 5 | 0 | 0 | 0 |
| 931 | Residential | Non-Participating | 724115.08 | 4774024.30 | 14 | 22 | 28 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 807 | Residential | Non-Participating | 728401.19 | 4777423.79 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 824 | Residential | Non-Participating | 728342.73 | 4777577.48 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 980 | Residential | Non-Participating | 724380.17 | 4773634.41 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 1058 | Residential | Non-Participating | 724354.68 | 4775435.75 | 14 | 15 | 21 | 22 | 16 | 14 | 4 | 0 | 0 | 0 |
| 961 | Residential | Non-Participating | 724348.24 | 4773639.01 | 14 | 22 | 28 | 22 | 15 | 13 | 4 | 0 | 0 | 0 |
| 1061 | Residential | Non-Participating | 724317.11 | 4775448.45 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 443 | Residential | Non-Participating | 728476.10 | 4774926.24 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 441 | Residential | Non-Participating | 728380.62 | 4774794.38 | 13 | 15 | 21 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 999 | Residential | Non-Participating | 723238.68 | 4777217.14 | 13 | 22 | 28 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1074 | Residential | Non-Participating | 724302.42 | 4775395.71 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 497 | Residential | Non-Participating | 726499.43 | 4773815.63 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1060 | Residential | Non-Participating | 724243.16 | 4775441.34 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 504 | Residential | Non-Participating | 726556.95 | 4773805.94 | 13 | 15 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1073 | Residential | Non-Participating | 724236.00 | 4775389.93 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 835 | Residential | Non-Participating | 728639.12 | 4774987.30 | 13 | 14 | 20 | 22 | 15 | 13 | 3 | 0 | 0 | 0 |
| 1141 | Residential | Non-Participating | 724203.14 | 4775432.29 | 13 | 14 | 20 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 162 | Residential | Non-Participating | 724071.22 | 4773625.65 | 13 | 22 | 27 | 21 | 15 | 13 | 3 | 0 | 0 | 0 |
| 894 | Residential | Non-Participating | 724048.81 | 4776152.22 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 417 | Residential | Non-Participating | 725996.58 | 4773793.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 1090 | Residential | Non-Participating | 728286.80 | 4777947.38 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 501 | Residential | Non-Participating | 726738.21 | 4773745.37 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 858 | Residential | Non-Participating | 726986.39 | 4773765.92 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 503 | Residential | Non-Participating | 726884.80 | 4773761.13 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 500 | Residential | Non-Participating | 726740.59 | 4773733.14 | 13 | 14 | 20 | 21 | 15 | 13 | 2 | 0 | 0 | 0 |
| 163 | Residential | Non-Participating | 724068.17 | 4773563.24 | 13 | 22 | 27 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 859 | Residential | Non-Participating | 727055.40 | 4773757.04 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 502 | Residential | Non-Participating | 726811.30 | 4773727.78 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 1142 | Residential | Non-Participating | 724128.40 | 4775425.80 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 416 | Residential | Non-Participating | 725907.67 | 4773755.90 | 12 | 14 | 20 | 21 | 15 | 12 | 2 | 0 | 0 | 0 |
| 930 | Residential | Non-Participating | 724117.78 | 4774089.47 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 591 | Residential | Non-Participating | 729051.03 | 4775832.73 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 978 | Residential | Non-Participating | 724539.98 | 4773639.39 | 12 | 20 | 26 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 900 | Residential | Non-Participating | 723984.23 | 4775852.95 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1124 | Residential | Non-Participating | 724091.10 | 4775377.84 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1144 | Residential | Non-Participating | 724057.56 | 4775423.59 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 415 | Residential | Non-Participating | 725807.21 | 4773736.35 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 586 | Residential | Non-Participating | 729054.70 | 4775670.07 | 12 | 14 | 20 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 190 | Residential | Non-Participating | 729710.66 | 4777219.08 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1125 | Residential | Non-Participating | 724062.58 | 4775375.51 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 412 | Residential | Non-Participating | 725923.56 | 4773684.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 583 | Residential | Non-Participating | 729065.00 | 4775607.16 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1115 | Residential | Non-Participating | 723980.93 | 4775590.81 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 542 | Residential | Non-Participating | 729135.55 | 4776074.64 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 157 | Residential | Non-Participating | 724139.27 | 4773265.70 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 153 | Residential | Non-Participating | 724080.78 | 4773322.69 | 12 | 21 | 27 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 189 | Residential | Non-Participating | 729728.59 | 4777228.39 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 1118 | Residential | Non-Participating | 724018.76 | 4775410.66 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1128 | Residential | Non-Participating | 723986.51 | 4775560.82 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 588 | Residential | Non-Participating | 729105.72 | 4775701.33 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 550 | Residential | Non-Participating | 729133.41 | 4775868.04 | 12 | 14 | 20 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 975 | Residential | Non-Participating | 724481.40 | 4773563.69 | 12 | 20 | 25 | 21 | 14 | 12 | 2 | 0 | 0 | 0 |
| 903 | Residential | Non-Participating | 723921.69 | 4775711.12 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1150 | Residential | Non-Participating | 723970.79 | 4775503.66 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 411 | Residential | Non-Participating | 725801.60 | 4773667.29 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 554 | Residential | Non-Participating | 729165.74 | 4775920.62 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1151 | Residential | Non-Participating | 723996.62 | 4775356.90 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1123 | Residential | Non-Participating | 723978.12 | 4775407.15 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 414 | Residential | Non-Participating | 725564.14 | 4773712.43 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 574 | Residential | Non-Participating | 729198.60 | 4775966.03 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 1156 | Residential | Non-Participating | 723988.28 | 4775310.70 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1147 | Residential | Non-Participating | 723976.67 | 4775374.91 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 410 | Residential | Non-Participating | 725730.08 | 4773652.04 | 12 | 14 | 19 | 21 | 14 | 12 | 1 | 0 | 0 | 0 |
| 546 | Residential | Non-Participating | 729179.94 | 4775742.74 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 543 | Residential | Non-Participating | 729223.99 | 4776058.44 | 12 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1148 | Residential | Non-Participating | 723951.89 | 4775370.80 | 11 | 14 | 19 | 21 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1119 | Residential | Non-Participating | 723925.93 | 4775409.25 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 418 | Residential | Non-Participating | 725684.35 | 4773634.06 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 413 | Residential | Non-Participating | 725519.84 | 4773684.95 | 11 | 13 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 241 | Residential | Non-Participating | 727938.57 | 4773896.99 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 539 | Residential | Non-Participating | 729247.86 | 4776115.16 | 11 | 14 | 19 | 20 | 14 | 11 | 1 | 0 | 0 | 0 |
| 1121 | Residential | Non-Participating | 723904.36 | 4775405.38 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 595 | Residential | Non-Participating | 729244.54 | 4775762.90 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 572 | Residential | Non-Participating | 729296.32 | 4776304.42 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1117 | Residential | Non-Participating | 723869.54 | 4775409.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 1149 | Residential | Non-Participating | 723882.86 | 4775366.57 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 245 | Residential | Non-Participating | 727941.82 | 4773829.14 | 11 | 13 | 19 | 20 | 14 | 11 | 0 | 0 | 0 | 0 |
| 589 | Residential | Non-Participating | 729277.00 | 4775709.66 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 570 | Residential | Non-Participating | 729329.21 | 4776384.95 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 548 | Residential | Non-Participating | 729299.49 | 4775753.64 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 921 | Residential | Non-Participating | 724092.78 | 4774797.29 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1133 | Residential | Non-Participating | 724013.07 | 4774868.60 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 406 | Residential | Non-Participating | 725376.78 | 4773605.51 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 255 | Residential | Non-Participating | 728045.32 | 4773810.50 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 596 | Residential | Non-Participating | 729137.86 | 4775072.56 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 1134 | Residential | Non-Participating | 724019.70 | 4774833.10 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 259 | Residential | Non-Participating | 728093.92 | 4773807.33 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 256 | Residential | Non-Participating | 728122.41 | 4773811.55 | 11 | 13 | 19 | 20 | 13 | 11 | 0 | 0 | 0 | 0 |
| 569 | Residential | Non-Participating | 729418.72 | 4776407.16 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 192 | Residential | Non-Participating | 730047.50 | 4777204.44 | 11 | 19 | 25 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 565 | Residential | Non-Participating | 729416.96 | 4776511.63 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 933 | Residential | Non-Participating | 724026.34 | 4774741.38 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 920 | Residential | Non-Participating | 723997.57 | 4774755.07 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1120 | Residential | Non-Participating | 723723.24 | 4775401.57 | 11 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 186 | Residential | Non-Participating | 730068.30 | 4777289.94 | 10 | 19 | 24 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 935 | Residential | Non-Participating | 724019.88 | 4774697.99 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 597 | Residential | Non-Participating | 729246.56 | 4775114.00 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 923 | Residential | Non-Participating | 724027.26 | 4774679.50 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 979 | Residential | Non-Participating | 725089.55 | 4773656.21 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 260 | Residential | Non-Participating | 728194.37 | 4773807.03 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 977 | Residential | Non-Participating | 725056.87 | 4773660.84 | 10 | 13 | 19 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 560 | Residential | Non-Participating | 729480.90 | 4776581.53 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 1161 | Residential | Non-Participating | 723727.22 | 4775204.79 | 10 | 13 | 18 | 20 | 13 | 10 | 0 | 0 | 0 | 0 |
| 262 | Residential | Non-Participating | 728319.88 | 4773805.84 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 156 | Residential | Non-Participating | 723430.22 | 4773252.51 | 10 | 20 | 26 | 20 | 12 | 10 | 0 | 0 | 0 | 0 |
| 557 | Residential | Non-Participating | 729532.60 | 4776634.43 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 187 | Residential | Non-Participating | 730189.21 | 4777278.94 | 10 | 18 | 24 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 1146 | Residential | Non-Participating | 723628.31 | 4775362.25 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 925 | Residential | Non-Participating | 724018.80 | 4774531.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 968 | Residential | Non-Participating | 725009.91 | 4773598.09 | 10 | 13 | 18 | 19 | 13 | 10 | 0 | 0 | 0 | 0 |
| 380 | Residential | Non-Participating | 729202.42 | 4774793.43 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 967 | Residential | Non-Participating | 724920.33 | 4773638.00 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 261 | Residential | Non-Participating | 728381.69 | 4773806.78 | 10 | 13 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 383 | Residential | Non-Participating | 729284.04 | 4774898.68 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 439 | Residential | Non-Participating | 729570.88 | 4776598.02 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 264 | Residential | Non-Participating | 728409.47 | 4773804.84 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 381 | Residential | Non-Participating | 729289.10 | 4774862.65 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 392 | Residential | Non-Participating | 728958.10 | 4774322.18 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 1166 | Residential | Non-Participating | 723345.91 | 4773213.76 | 10 | 20 | 26 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 499 | Residential | Non-Participating | 726578.49 | 4773124.46 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 549 | Residential | Non-Participating | 729582.03 | 4775768.26 | 10 | 12 | 18 | 19 | 12 | 10 | 0 | 0 | 0 | 0 |
| 282 | Residential | Non-Participating | 728402.85 | 4773754.82 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 284 | Residential | Non-Participating | 728385.09 | 4773738.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 53 | Residential | Non-Participating | 729603.31 | 4775779.65 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 263 | Residential | Non-Participating | 728488.66 | 4773811.49 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 183 | Residential | Non-Participating | 730282.34 | 4777353.86 | 10 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 276 | Residential | Non-Participating | 728476.47 | 4773775.26 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 438 | Residential | Non-Participating | 729643.61 | 4776671.50 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 375 | Residential | Non-Participating | 729214.13 | 4774594.70 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 973 | Residential | Non-Participating | 724842.58 | 4773565.86 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 253 | Residential | Non-Participating | 728566.17 | 4773824.45 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 258 | Residential | Non-Participating | 728539.39 | 4773820.25 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 286 | Residential | Non-Participating | 728467.97 | 4773737.61 | 10 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 374 | Residential | Non-Participating | 729197.60 | 4774518.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 252 | Residential | Non-Participating | 728595.08 | 4773831.83 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 281 | Residential | Non-Participating | 728530.84 | 4773763.16 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 273 | Residential | Non-Participating | 728563.13 | 4773784.48 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 168 | Residential | Non-Participating | 723675.05 | 4773455.48 | 9 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 180 | Residential | Non-Participating | 730332.85 | 4777455.33 | 9 | 18 | 24 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 179 | Residential | Non-Participating | 730341.31 | 4777505.17 | 9 | 18 | 24 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 376 | Residential | Non-Participating | 729291.50 | 4774638.73 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 982 | Residential | Non-Participating | 724649.21 | 4773632.27 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 782 | Residential | Non-Participating | 729358.86 | 4777674.71 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 250 | Residential | Non-Participating | 728650.16 | 4773838.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 272 | Residential | Non-Participating | 728594.10 | 4773787.29 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 287 | Residential | Non-Participating | 728515.52 | 4773726.20 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 182 | Residential | Non-Participating | 730397.07 | 4777391.97 | 9 | 18 | 24 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 209 | Residential | Non-Participating | 726577.69 | 4773017.75 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 373 | Residential | Non-Participating | 729169.12 | 4774409.14 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 395 | Residential | Non-Participating | 729149.53 | 4774376.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 251 | Residential | Non-Participating | 728677.01 | 4773842.04 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 271 | Residential | Non-Participating | 728619.33 | 4773789.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 248 | Residential | Non-Participating | 728707.21 | 4773846.95 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 270 | Residential | Non-Participating | 728651.43 | 4773791.41 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 181 | Residential | Non-Participating | 730419.48 | 4777448.31 | 9 | 18 | 24 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 391 | Residential | Non-Participating | 729124.31 | 4774296.74 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 972 | Residential | Non-Participating | 724634.12 | 4773578.39 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 247 | Residential | Non-Participating | 728736.11 | 4773849.86 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 268 | Residential | Non-Participating | 728666.23 | 4773797.32 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 786 | Residential | Non-Participating | 729347.61 | 4777805.09 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 285 | Residential | Non-Participating | 728628.02 | 4773740.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 175 | Residential | Non-Participating | 729710.98 | 4776892.58 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 1160 | Residential | Non-Participating | 723404.91 | 4775233.87 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 393 | Residential | Non-Participating | 729202.17 | 4774357.05 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 771 | Residential | Non-Participating | 728778.59 | 4773855.78 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 246 | Residential | Non-Participating | 728759.34 | 4773854.42 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 266 | Residential | Non-Participating | 728696.53 | 4773796.53 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 862 | Residential | Non-Participating | 727834.62 | 4773223.80 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 269 | Residential | Non-Participating | 728722.77 | 4773798.50 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 872 | Residential | Non-Participating | 730481.84 | 4777399.25 | 9 | 18 | 23 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 970 | Residential | Non-Participating | 724584.50 | 4773579.17 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 390 | Residential | Non-Participating | 729171.45 | 4774265.89 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 605 | Residential | Non-Participating | 728803.87 | 4773860.70 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 267 | Residential | Non-Participating | 728747.55 | 4773802.94 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 290 | Residential | Non-Participating | 728664.41 | 4773719.61 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |
| 51 | Residential | Non-Participating | 729795.23 | 4775782.85 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 178 | Residential | Non-Participating | 729758.86 | 4776841.81 | 9 | 12 | 18 | 19 | 12 | 9 | 0 | 0 | 0 | 0 |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 372 | Residential | Non-Participating | 729283.10 | 4774405.12 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 606 | Residential | Non-Participating | 728832.65 | 4773864.22 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 864 | Residential | Non-Participating | 727766.80 | 4773162.33 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 1170 | Residential | Non-Participating | 722930.96 | 4773236.57 | 9 | 19 | 25 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 877 | Residential | Non-Participating | 730447.25 | 4777603.88 | 9 | 18 | 23 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 971 | Residential | Non-Participating | 724528.67 | 4773576.47 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 608 | Residential | Non-Participating | 728858.52 | 4773869.05 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 711 | Residential | Non-Participating | 728774.18 | 4773799.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 712 | Residential | Non-Participating | 728796.08 | 4773802.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 237 | Residential | Non-Participating | 727894.54 | 4773215.39 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 236 | Residential | Non-Participating | 727942.13 | 4773217.63 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 293 | Residential | Non-Participating | 728677.45 | 4773716.32 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 292 | Residential | Non-Participating | 728691.05 | 4773715.22 | 9 | 12 | 17 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 296 | Residential | Non-Participating | 728646.09 | 4773685.75 | 9 | 12 | 18 | 19 | 11 | 9 | 0 | 0 | 0 | 0 |
| 631 | Residential | Non-Participating | 729048.32 | 4774060.84 | 9 | 12 | 17 | 19 | 11 | 8 | 0 | 0 | 0 | 0 |
| 781 | Residential | Non-Participating | 729455.01 | 4777793.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 871 | Residential | Non-Participating | 730509.26 | 4777463.86 | 9 | 18 | 23 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 387 | Residential | Non-Participating | 729139.66 | 4774149.00 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 612 | Residential | Non-Participating | 728909.84 | 4773878.32 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 714 | Residential | Non-Participating | 728832.33 | 4773807.11 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 879 | Residential | Non-Participating | 727826.21 | 4773150.33 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 289 | Residential | Non-Participating | 728747.07 | 4773729.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 238 | Residential | Non-Participating | 727995.59 | 4773235.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 298 | Residential | Non-Participating | 728677.71 | 4773672.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 52 | Residential | Non-Participating | 729842.04 | 4775784.65 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 385 | Residential | Non-Participating | 729120.27 | 4774107.71 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 197 | Residential | Non-Participating | 729792.79 | 4776992.77 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 630 | Residential | Non-Participating | 729047.33 | 4773996.87 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 616 | Residential | Non-Participating | 728943.97 | 4773891.22 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 717 | Residential | Non-Participating | 728860.19 | 4773810.77 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 229 | Residential | Non-Participating | 727926.92 | 4773165.93 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 299 | Residential | Non-Participating | 728712.58 | 4773661.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 239 | Residential | Non-Participating | 728097.66 | 4773244.28 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 49 | Residential | Non-Participating | 729873.29 | 4775778.19 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 625 | Residential | Non-Participating | 729047.55 | 4773967.04 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 613 | Residential | Non-Participating | 728975.13 | 4773880.74 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 232 | Residential | Non-Participating | 727991.09 | 4773175.48 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 661 | Residential | Non-Participating | 728782.08 | 4773690.84 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 230 | Residential | Non-Participating | 728027.10 | 4773175.59 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 307 | Residential | Non-Participating | 728146.07 | 4773248.45 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 629 | Residential | Non-Participating | 729097.83 | 4773998.72 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 623 | Residential | Non-Participating | 729040.61 | 4773944.37 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 306 | Residential | Non-Participating | 728271.85 | 4773304.24 | 9 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 626 | Residential | Non-Participating | 729092.21 | 4773975.11 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 621 | Residential | Non-Participating | 729037.87 | 4773918.07 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 713 | Residential | Non-Participating | 728922.42 | 4773806.03 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 226 | Residential | Non-Participating | 728200.73 | 4773243.88 | 8 | 12 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 624 | Residential | Non-Participating | 729091.42 | 4773955.31 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 655 | Residential | Non-Participating | 728825.80 | 4773684.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 309 | Residential | Non-Participating | 728235.69 | 4773254.34 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1164 | Residential | Non-Participating | 722733.09 | 4773217.91 | 8 | 19 | 25 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 622 | Residential | Non-Participating | 729086.06 | 4773932.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 651 | Residential | Non-Participating | 728793.10 | 4773649.35 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 669 | Residential | Non-Participating | 728853.62 | 4773689.97 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 445 | Residential | Non-Participating | 728079.16 | 4773163.48 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 50 | Residential | Non-Participating | 729939.14 | 4775783.38 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 619 | Residential | Non-Participating | 729086.47 | 4773908.47 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 615 | Residential | Non-Participating | 729077.58 | 4773891.93 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 718 | Residential | Non-Participating | 729019.22 | 4773815.07 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 946 | Residential | Non-Participating | 729594.72 | 4777803.68 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 657 | Residential | Non-Participating | 728874.48 | 4773687.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 444 | Residential | Non-Participating | 728141.22 | 4773158.51 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 724 | Residential | Non-Participating | 729074.07 | 4773862.04 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 303 | Residential | Non-Participating | 728695.95 | 4773505.28 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 641 | Residential | Non-Participating | 728845.67 | 4773641.62 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 656 | Residential | Non-Participating | 728899.46 | 4773689.13 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 721 | Residential | Non-Participating | 729073.05 | 4773845.92 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 640 | Residential | Non-Participating | 728867.69 | 4773640.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 667 | Residential | Non-Participating | 728939.24 | 4773695.30 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 664 | Residential | Non-Participating | 728916.86 | 4773691.08 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 716 | Residential | Non-Participating | 729065.57 | 4773815.10 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 943 | Residential | Non-Participating | 729667.73 | 4777744.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1167 | Residential | Non-Participating | 722686.66 | 4773151.26 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 196 | Residential | Non-Participating | 729940.00 | 4777038.55 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 635 | Residential | Non-Participating | 728899.71 | 4773642.75 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 58 | Residential | Non-Participating | 730016.13 | 4775783.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 702 | Residential | Non-Participating | 729071.42 | 4773779.91 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 639 | Residential | Non-Participating | 728924.81 | 4773640.56 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 231 | Residential | Non-Participating | 728315.16 | 4773184.88 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 1169 | Residential | Non-Participating | 722619.71 | 4773148.87 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 694 | Residential | Non-Participating | 729055.48 | 4773751.02 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 692 | Residential | Non-Participating | 729053.94 | 4773740.52 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 649 | Residential | Non-Participating | 728951.84 | 4773650.59 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 234 | Residential | Non-Participating | 728354.93 | 4773185.77 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 446 | Residential | Non-Participating | 728281.13 | 4773159.53 | 8 | 11 | 17 | 18 | 11 | 8 | 0 | 0 | 0 | 0 |
| 212 | Residential | Non-Participating | 726635.52 | 4772650.59 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |
| 233 | Residential | Non-Participating | 728391.11 | 4773189.73 | 8 | 11 | 17 | 18 | 11 | 7 | 0 | 0 | 0 | 0 |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 54 | Residential | Non-Participating | 730075.76 | 4775797.65 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 753 | Residential | Non-Participating | 728843.53 | 4773473.25 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 768 | Residential | Non-Participating | 728921.46 | 4773546.76 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 676 | Residential | Non-Participating | 729105.68 | 4773709.52 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 213 | Residential | Non-Participating | 726490.56 | 4772612.30 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 944 | Residential | Non-Participating | 729806.46 | 4777731.62 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 759 | Residential | Non-Participating | 728914.65 | 4773516.48 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 752 | Residential | Non-Participating | 728870.34 | 4773471.45 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 604 | Residential | Non-Participating | 728989.14 | 4773571.77 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 751 | Residential | Non-Participating | 728899.62 | 4773472.19 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 533 | Residential | Non-Participating | 722488.87 | 4773133.79 | 8 | 19 | 24 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 66 | Residential | Non-Participating | 730145.08 | 4775833.94 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 668 | Residential | Non-Participating | 729160.55 | 4773704.67 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 772 | Residential | Non-Participating | 729039.12 | 4773583.37 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 762 | Residential | Non-Participating | 728979.88 | 4773527.40 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 755 | Residential | Non-Participating | 728922.95 | 4773477.21 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 766 | Residential | Non-Participating | 728987.62 | 4773549.13 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 769 | Residential | Non-Participating | 729039.12 | 4773565.17 | 8 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 670 | Residential | Non-Participating | 729190.90 | 4773703.60 | 7 | 11 | 17 | 18 | 10 | 7 | 0 | 0 | 0 | 0 |
| 634 | Residential | Non-Participating | 729142.92 | 4773643.19 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 765 | Residential | Non-Participating | 729039.88 | 4773541.14 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 754 | Residential | Non-Participating | 728974.60 | 4773478.81 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 662 | Residential | Non-Participating | 729218.06 | 4773705.71 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 646 | Residential | Non-Participating | 729169.15 | 4773655.06 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 528 | Residential | Non-Participating | 722308.67 | 4773252.42 | 7 | 19 | 24 | 18 | 10 | 6 | 0 | 0 | 0 | 0 |
| 211 | Residential | Non-Participating | 726570.29 | 4772515.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 672 | Residential | Non-Participating | 729237.34 | 4773710.50 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 647 | Residential | Non-Participating | 729181.55 | 4773653.73 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 758 | Residential | Non-Participating | 729030.73 | 4773514.45 | 7 | 11 | 17 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 745 | Residential | Non-Participating | 728972.77 | 4773448.23 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 733 | Residential | Non-Participating | 728851.33 | 4773352.34 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 648 | Residential | Non-Participating | 729208.10 | 4773657.35 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 756 | Residential | Non-Participating | 729030.53 | 4773490.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 428 | Residential | Non-Participating | 722939.56 | 4775217.32 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 659 | Residential | Non-Participating | 729259.92 | 4773705.81 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 166 | Residential | Non-Participating | 723958.72 | 4773505.15 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 725 | Residential | Non-Participating | 729041.07 | 4773472.97 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 747 | Residential | Non-Participating | 729022.67 | 4773453.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 739 | Residential | Non-Participating | 728969.30 | 4773422.14 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 738 | Residential | Non-Participating | 728965.79 | 4773406.71 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 947 | Residential | Non-Participating | 729885.26 | 4777836.49 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 780 | Residential | Non-Participating | 729242.79 | 4773656.01 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 740 | Residential | Non-Participating | 729021.77 | 4773437.08 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 736 | Residential | Non-Participating | 728960.68 | 4773389.64 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 424 | Residential | Non-Participating | 722922.89 | 4775148.12 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 663 | Residential | Non-Participating | 729321.59 | 4773709.95 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 666 | Residential | Non-Participating | 729295.82 | 4773707.43 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 638 | Residential | Non-Participating | 729260.10 | 4773654.44 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 732 | Residential | Non-Participating | 728964.12 | 4773374.51 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 637 | Residential | Non-Participating | 729276.07 | 4773657.78 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 737 | Residential | Non-Participating | 729017.28 | 4773400.98 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 434 | Residential | Non-Participating | 722896.41 | 4775222.88 | 7 | 11 | 16 | 17 | 10 | 7 | 0 | 0 | 0 | 0 |
| 665 | Residential | Non-Participating | 729349.57 | 4773711.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 643 | Residential | Non-Participating | 729294.79 | 4773659.93 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 734 | Residential | Non-Participating | 729020.09 | 4773381.49 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 726 | Residential | Non-Participating | 728957.79 | 4773320.44 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 671 | Residential | Non-Participating | 729365.77 | 4773714.16 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 642 | Residential | Non-Participating | 729315.21 | 4773660.73 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 215 | Residential | Non-Participating | 726574.02 | 4772408.25 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 699 | Residential | Non-Participating | 729450.82 | 4773777.19 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 696 | Residential | Non-Participating | 729432.15 | 4773764.03 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 683 | Residential | Non-Participating | 729394.54 | 4773732.63 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 729 | Residential | Non-Participating | 729019.73 | 4773353.67 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 728 | Residential | Non-Participating | 729009.02 | 4773329.55 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 701 | Residential | Non-Participating | 729472.00 | 4773792.75 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 530 | Residential | Non-Participating | 722286.55 | 4772992.47 | 7 | 18 | 24 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 167 | Residential | Non-Participating | 723835.19 | 4773501.33 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 720 | Residential | Non-Participating | 729534.81 | 4773842.53 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 652 | Residential | Non-Participating | 729381.25 | 4773674.99 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 707 | Residential | Non-Participating | 729499.39 | 4773808.08 | 7 | 11 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 609 | Residential | Non-Participating | 729589.05 | 4773896.81 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 722 | Residential | Non-Participating | 729561.15 | 4773864.29 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 55 | Residential | Non-Participating | 730365.70 | 4775802.84 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 618 | Residential | Non-Participating | 729625.51 | 4773918.33 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 688 | Residential | Non-Participating | 729484.10 | 4773734.67 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 653 | Residential | Non-Participating | 729450.77 | 4773697.75 | 7 | 10 | 16 | 17 | 10 | 6 | 0 | 0 | 0 | 0 |
| 695 | Residential | Non-Participating | 729511.74 | 4773754.86 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 705 | Residential | Non-Participating | 729580.75 | 4773800.25 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 710 | Residential | Non-Participating | 729625.49 | 4773823.63 | 7 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 313 | Residential | Non-Participating | 729885.93 | 4774161.33 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 883 | Residential | Non-Participating | 727651.78 | 4772425.03 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 314 | Residential | Non-Participating | 729948.86 | 4774191.54 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 909 | Residential | Non-Participating | 729712.95 | 4773832.38 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 151 | Residential | Non-Participating | 723726.55 | 4773352.67 | 6 | 10 | 16 | 17 | 9 | 6 | 0 | 0 | 0 | 0 |
| 426 | Residential | Non-Participating | 722620.69 | 4775203.20 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 316 | Residential | Non-Participating | 730022.97 | 4774219.17 | 6 | 10 | 16 | 17 | 9 | 5 | 0 | 0 | 0 | 0 |
| 150 | Residential | Non-Participating | 723656.49 | 4773370.52 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 429 | Residential | Non-Participating | 722583.77 | 4775206.59 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 318 | Residential | Non-Participating | 730093.87 | 4774271.95 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1052 | Residential | Non-Participating | 726798.67 | 4772157.07 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1051 | Residential | Non-Participating | 726573.79 | 4772129.48 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 905 | Residential | Non-Participating | 729888.62 | 4773911.94 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 453 | Residential | Non-Participating | 728097.71 | 4772454.49 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 937 | Residential | Non-Participating | 727182.20 | 4772189.68 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 327 | Residential | Non-Participating | 730202.76 | 4774395.60 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 312 | Residential | Non-Participating | 730073.71 | 4774167.28 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 454 | Residential | Non-Participating | 728154.49 | 4772456.41 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 321 | Residential | Non-Participating | 730166.96 | 4774304.58 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 310 | Residential | Non-Participating | 730099.82 | 4774185.32 | 6 | 10 | 16 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 1050 | Residential | Non-Participating | 726587.25 | 4772092.90 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 908 | Residential | Non-Participating | 729911.65 | 4773839.21 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 452 | Residential | Non-Participating | 728290.45 | 4772463.79 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 317 | Residential | Non-Participating | 730197.71 | 4774255.36 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 906 | Residential | Non-Participating | 729995.07 | 4773916.38 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 451 | Residential | Non-Participating | 728356.64 | 4772472.10 | 6 | 10 | 15 | 16 | 9 | 5 | 0 | 0 | 0 | 0 |
| 159 | Residential | Non-Participating | 723669.75 | 4773152.78 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 328 | Residential | Non-Participating | 730331.04 | 4774403.28 | 6 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 155 | Residential | Non-Participating | 723487.51 | 4773282.37 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 320 | Residential | Non-Participating | 730292.58 | 4774295.99 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 102 | Residential | Non-Participating | 725966.27 | 4772022.81 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 904 | Residential | Non-Participating | 730095.90 | 4773922.65 | 5 | 10 | 15 | 16 | 8 | 5 | 0 | 0 | 0 | 0 |
| 160 | Residential | Non-Participating | 723679.00 | 4773047.54 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 517 | Residential | Non-Participating | 730784.71 | 4775773.60 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 119 | Residential | Non-Participating | 722368.27 | 4775189.34 | 5 | 10 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 112 | Residential | Non-Participating | 722372.96 | 4775085.15 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 1094 | Residential | Non-Participating | 730546.38 | 4777725.26 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 326 | Residential | Non-Participating | 730431.30 | 4774406.08 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 115 | Residential | Non-Participating | 722357.20 | 4775122.97 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 331 | Residential | Non-Participating | 730477.03 | 4774453.11 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 82 | Residential | Non-Participating | 725816.16 | 4771930.09 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 124 | Residential | Non-Participating | 722281.08 | 4775095.14 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 465 | Residential | Non-Participating | 730540.74 | 4774482.22 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 85 | Residential | Non-Participating | 725657.11 | 4771913.93 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 90 | Residential | Non-Participating | 726091.65 | 4771857.51 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 84 | Residential | Non-Participating | 725714.85 | 4771919.33 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 466 | Residential | Non-Participating | 730574.06 | 4774504.41 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 83 | Residential | Non-Participating | 725514.51 | 4771917.72 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 87 | Residential | Non-Participating | 725769.99 | 4771851.99 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 88 | Residential | Non-Participating | 725809.57 | 4771853.60 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 471 | Residential | Non-Participating | 730671.92 | 4774630.30 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 89 | Residential | Non-Participating | 725611.13 | 4771852.51 | 5 | 9 | 15 | 15 | 8 | 4 | 0 | 0 | 0 | 0 |
| 94 | Residential | Non-Participating | 726095.72 | 4771800.34 | 5 | 9 | 15 | 16 | 8 | 4 | 0 | 0 | 0 | 0 |
| 535 | Residential | Non-Participating | 721951.02 | 4773179.47 | 5 | 15 | 21 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 986 | Residential | Non-Participating | 720358.20 | 4775145.63 | 5 | 17 | 22 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 474 | Residential | Non-Participating | 730798.58 | 4774651.01 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 998 | Residential | Non-Participating | 720318.81 | 4775101.03 | 4 | 17 | 22 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 113 | Residential | Non-Participating | 722105.32 | 4775079.25 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 95 | Residential | Non-Participating | 726042.91 | 4771681.08 | 4 | 9 | 15 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 476 | Residential | Non-Participating | 730850.15 | 4774664.26 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1096 | Residential | Non-Participating | 730614.49 | 4778344.91 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 114 | Residential | Non-Participating | 722025.70 | 4775078.79 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 516 | Residential | Non-Participating | 731141.44 | 4775781.92 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 73 | Residential | Non-Participating | 730563.48 | 4773953.39 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 874 | Residential | Non-Participating | 731023.49 | 4777311.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 518 | Residential | Non-Participating | 731188.19 | 4775834.08 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 72 | Residential | Non-Participating | 730629.86 | 4773989.17 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1100 | Residential | Non-Participating | 730614.75 | 4778452.56 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 121 | Residential | Non-Participating | 721928.80 | 4775199.82 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 1097 | Residential | Non-Participating | 730691.19 | 4778401.67 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 468 | Residential | Non-Participating | 730976.46 | 4774609.09 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 868 | Residential | Non-Participating | 731078.39 | 4777513.27 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 118 | Residential | Non-Participating | 721885.31 | 4775169.22 | 4 | 9 | 14 | 15 | 7 | 3 | 0 | 0 | 0 | 0 |
| 136 | Residential | Non-Participating | 721047.53 | 4774140.06 | 4 | 15 | 20 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 75 | Residential | Non-Participating | 730739.14 | 4773912.10 | 4 | 9 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 870 | Residential | Non-Participating | 731171.34 | 4777483.67 | 4 | 8 | 14 | 15 | 7 | 2 | 0 | 0 | 0 | 0 |
| 464 | Residential | Non-Participating | 731065.40 | 4774458.36 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 459 | Residential | Non-Participating | 731025.02 | 4774380.84 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 422 | Residential | Non-Participating | 731132.41 | 4774605.26 | 3 | 8 | 14 | 15 | 6 | 2 | 0 | 0 | 0 | 0 |
| 116 | Residential | Non-Participating | 721750.54 | 4775111.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1029 | Residential | Non-Participating | 731402.56 | 4775687.63 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 479 | Residential | Non-Participating | 731190.60 | 4774696.78 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 458 | Residential | Non-Participating | 731034.22 | 4774322.34 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1016 | Residential | Non-Participating | 731409.24 | 4775519.08 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1033 | Residential | Non-Participating | 731422.69 | 4775589.11 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 480 | Residential | Non-Participating | 731233.86 | 4774711.91 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1005 | Residential | Non-Participating | 731414.47 | 4775435.67 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1017 | Residential | Non-Participating | 731435.10 | 4775555.01 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1015 | Residential | Non-Participating | 731409.03 | 4775371.42 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 117 | Residential | Non-Participating | 721667.54 | 4775158.55 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 421 | Residential | Non-Participating | 731217.87 | 4774599.79 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 456 | Residential | Non-Participating | 731052.54 | 4774154.81 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1031 | Residential | Non-Participating | 731478.97 | 4775678.66 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1032 | Residential | Non-Participating | 731470.63 | 4775613.43 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 120 | Residential | Non-Participating | 721630.11 | 4775174.75 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |

**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 70 | Residential | Non-Participating | 730996.74 | 4773988.38 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 469 | Residential | Non-Participating | 731287.34 | 4774632.13 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 485 | Residential | Non-Participating | 731355.45 | 4774819.89 | 3 | 8 | 14 | 14 | 6 | 2 | 0 | 0 | 0 | 0 |
| 1024 | Residential | Non-Participating | 731570.63 | 4775882.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 460 | Residential | Non-Participating | 731243.37 | 4774403.63 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 487 | Residential | Non-Participating | 731400.62 | 4774848.49 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 473 | Residential | Non-Participating | 731345.22 | 4774667.44 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 462 | Residential | Non-Participating | 731257.63 | 4774430.58 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1105 | Residential | Non-Participating | 731435.68 | 4774877.87 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 484 | Residential | Non-Participating | 731410.23 | 4774783.16 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 69 | Residential | Non-Participating | 731081.44 | 4773946.96 | 3 | 8 | 14 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1028 | Residential | Non-Participating | 731628.78 | 4775862.55 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1106 | Residential | Non-Participating | 731485.26 | 4774905.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 23 | Residential | Non-Participating | 721496.48 | 4775161.42 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 76 | Residential | Non-Participating | 731148.87 | 4773927.79 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 6 | Residential | Non-Participating | 721445.68 | 4775152.10 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 5 | Residential | Non-Participating | 721438.57 | 4775223.58 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 29 | Residential | Non-Participating | 721418.14 | 4775276.00 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 204 | Residential | Non-Participating | 731561.89 | 4777454.80 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1108 | Residential | Non-Participating | 731563.43 | 4774956.90 | 3 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 33 | Residential | Non-Participating | 721402.66 | 4775323.35 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 4 | Residential | Non-Participating | 721358.43 | 4775598.79 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1104 | Residential | Non-Participating | 731558.04 | 4774875.78 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 1021 | Residential | Non-Participating | 731716.15 | 4775919.65 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 38 | Residential | Non-Participating | 721388.89 | 4775368.01 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 41 | Residential | Non-Participating | 721377.25 | 4775438.39 | 2 | 8 | 13 | 14 | 6 | 1 | 0 | 0 | 0 | 0 |
| 46 | Residential | Non-Participating | 721357.27 | 4775527.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 45 | Residential | Non-Participating | 721350.75 | 4775475.19 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 74 | Residential | Non-Participating | 731225.66 | 4773949.56 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 12 | Residential | Non-Participating | 721436.97 | 4774870.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1109 | Residential | Non-Participating | 731614.94 | 4774986.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 15 | Residential | Non-Participating | 721398.19 | 4775073.21 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 22 | Residential | Non-Participating | 721375.37 | 4775152.74 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 31 | Residential | Non-Participating | 721342.77 | 4775305.43 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 35 | Residential | Non-Participating | 721342.73 | 4775335.40 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 221 | Residential | Non-Participating | 721281.29 | 4775855.13 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1107 | Residential | Non-Participating | 731631.99 | 4774936.63 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 337 | Residential | Non-Participating | 720805.19 | 4773233.34 | 2 | 14 | 19 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1 | Residential | Non-Participating | 721444.24 | 4774819.36 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 9 | Residential | Non-Participating | 721348.94 | 4775222.99 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1110 | Residential | Non-Participating | 731672.81 | 4775008.82 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 42 | Residential | Non-Participating | 721300.63 | 4775439.01 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 1022 | Residential | Non-Participating | 731786.69 | 4775886.09 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 219 | Residential | Non-Participating | 721253.19 | 4775886.45 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 218 | Residential | Non-Participating | 721232.73 | 4776003.54 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 8 | Residential | Non-Participating | 721417.80 | 4774766.28 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 10 | Residential | Non-Participating | 721374.17 | 4774839.15 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 21 | Residential | Non-Participating | 721298.18 | 4775150.69 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 2 | Residential | Non-Participating | 721250.90 | 4775573.07 | 2 | 8 | 13 | 14 | 5 | 1 | 0 | 0 | 0 | 0 |
| 220 | Residential | Non-Participating | 721206.61 | 4775869.91 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 222 | Residential | Non-Participating | 721215.85 | 4775832.62 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 216 | Residential | Non-Participating | 721203.78 | 4776139.38 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1111 | Residential | Non-Participating | 731735.55 | 4775045.18 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1026 | Residential | Non-Participating | 731850.81 | 4775877.14 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 127 | Residential | Non-Participating | 721394.91 | 4774690.71 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1008 | Residential | Non-Participating | 731768.52 | 4775157.34 | 2 | 8 | 13 | 14 | 5 | 0 | 0 | 0 | 0 | 0 |
| 19 | Residential | Non-Participating | 721236.82 | 4775148.32 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 14 | Residential | Non-Participating | 721239.83 | 4775005.35 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1112 | Residential | Non-Participating | 731870.28 | 4775055.71 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1027 | Residential | Non-Participating | 731974.22 | 4775878.91 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 132 | Residential | Non-Participating | 721278.64 | 4774584.27 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 537 | Residential | Non-Participating | 721888.23 | 4773225.02 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1025 | Residential | Non-Participating | 732031.68 | 4775893.80 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1004 | Residential | Non-Participating | 731949.68 | 4775092.04 | 2 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 129 | Residential | Non-Participating | 721281.00 | 4774300.22 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 208 | Residential | Non-Participating | 731942.16 | 4777535.65 | 1 | 7 | 13 | 13 | 5 | 0 | 0 | 0 | 0 | 0 |
| 1006 | Residential | Non-Participating | 732015.89 | 4775134.43 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 27 | Residential | Non-Participating | 721025.31 | 4775183.76 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1012 | Residential | Non-Participating | 732058.28 | 4775253.21 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 536 | Residential | Non-Participating | 721810.59 | 4773174.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1007 | Residential | Non-Participating | 732077.75 | 4775158.48 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 145 | Residential | Non-Participating | 731778.43 | 4774143.89 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 17 | Residential | Non-Participating | 720947.49 | 4775125.92 | 1 | 7 | 13 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1010 | Residential | Non-Participating | 732129.72 | 4775182.37 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 126 | Residential | Non-Participating | 721155.40 | 4774200.75 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 332 | Residential | Non-Participating | 721609.74 | 4773171.40 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1013 | Residential | Non-Participating | 732217.52 | 4775318.15 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 1009 | Residential | Non-Participating | 732214.48 | 4775185.72 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 603 | Residential | Non-Participating | 732329.11 | 4776044.45 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 141 | Residential | Non-Participating | 731884.92 | 4774007.98 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 368 | Residential | Non-Participating | 721533.78 | 4773159.83 | 1 | 7 | 12 | 13 | 4 | 0 | 0 | 0 | 0 | 0 |
| 16 | Residential | Non-Participating | 720754.57 | 4775114.67 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 366 | Residential | Non-Participating | 721500.35 | 4773154.81 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 364 | Residential | Non-Participating | 721445.82 | 4773150.31 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 400 | Residential | Non-Participating | 732386.71 | 4775423.45 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 142 | Residential | Non-Participating | 732057.81 | 4774082.58 | 1 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 362 | Residential | Non-Participating | 721404.49 | 4773146.11 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |

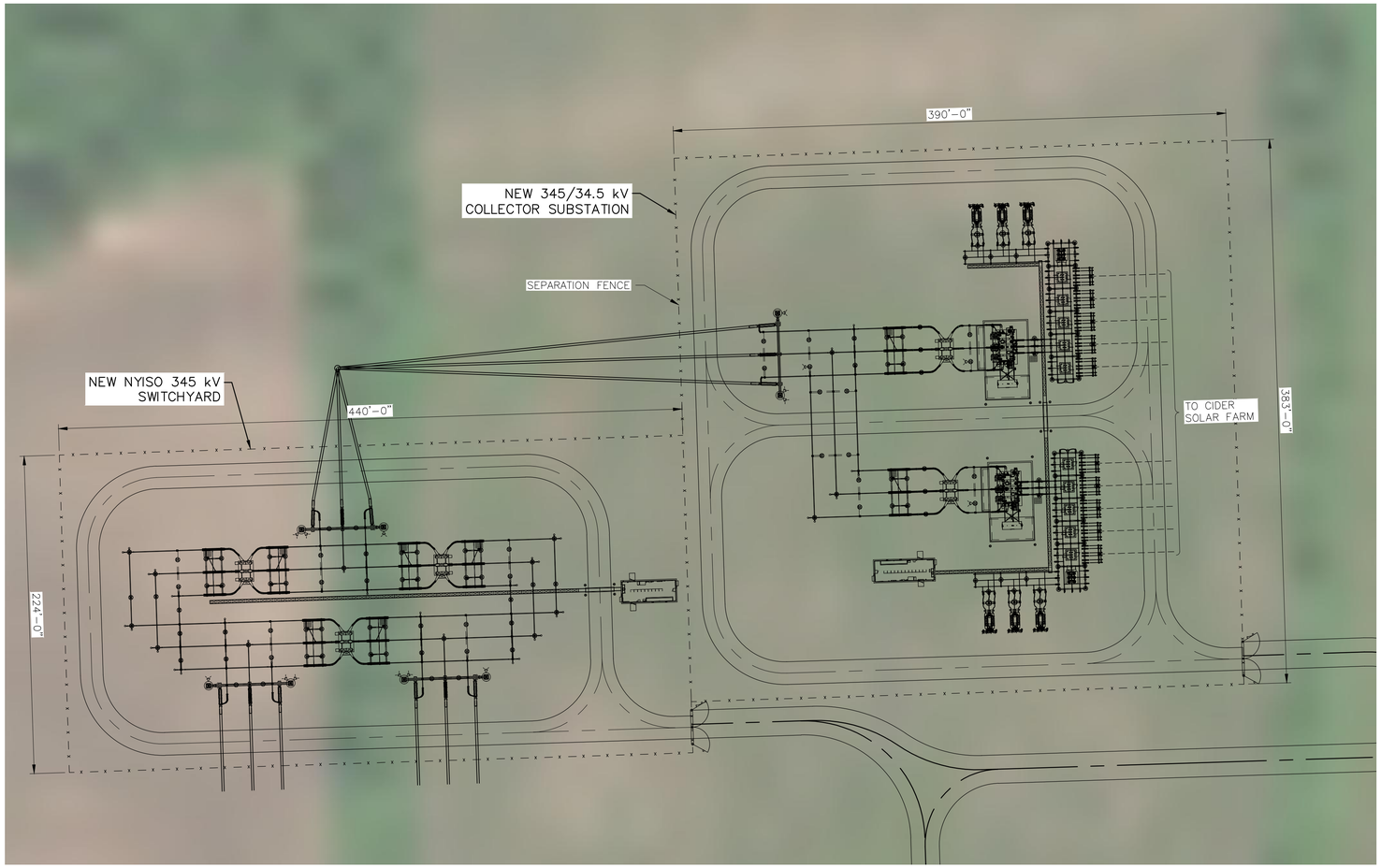
**Table 7-5.2b: Mitigated Collector Substation Sound Level Modeling Results (Leq (1-Hour)) at Discrete Points - Sorted by Sound Level [Residential and Non-Participating]**

| Modeling Receptor ID | Receptor Type | Participation Status | Coordinates UTM NAD83 Zone 17N (meters) | | Substation Only Maximum 1-hr Leq (dBA) | Leq (dB) per Octave Band Center Frequency (Hz) - Acoustic Modeling Results | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X (m) | Y (m) | | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 401 | Residential | Non-Participating | 732442.88 | 4775400.98 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 403 | Residential | Non-Participating | 732426.96 | 4775364.97 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 140 | Residential | Non-Participating | 732052.47 | 4774010.73 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 399 | Residential | Non-Participating | 732457.26 | 4775495.72 | 0 | 7 | 12 | 12 | 4 | 0 | 0 | 0 | 0 | 0 |
| 886 | Residential | Non-Participating | 732377.37 | 4777492.44 | 0 | 7 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 365 | Residential | Non-Participating | 721324.33 | 4773144.58 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 143 | Residential | Non-Participating | 732187.46 | 4774094.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 884 | Residential | Non-Participating | 732553.46 | 4777033.18 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 984 | Residential | Non-Participating | 720508.02 | 4775126.51 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 343 | Residential | Non-Participating | 720725.08 | 4773343.58 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 357 | Residential | Non-Participating | 720962.68 | 4773061.00 | 0 | 6 | 11 | 12 | 2 | 0 | 0 | 0 | 0 | 0 |
| 358 | Residential | Non-Participating | 720901.30 | 4773073.10 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 340 | Residential | Non-Participating | 720799.40 | 4773295.74 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 989 | Residential | Non-Participating | 720267.87 | 4774379.06 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 359 | Residential | Non-Participating | 720844.87 | 4773066.72 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 371 | Residential | Non-Participating | 720754.81 | 4773151.13 | 0 | 6 | 11 | 11 | 2 | 0 | 0 | 0 | 0 | 0 |
| 891 | Residential | Non-Participating | 732651.96 | 4777412.79 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| 787 | Residential | Non-Participating | 732705.58 | 4776616.09 | 0 | 6 | 12 | 12 | 3 | 0 | 0 | 0 | 0 | 0 |
| Summary of Maximum and Minimum Sound Levels for Non-Participating Residential Receptors | | | | | | | | | | | | | | |
| **553** | **Residential** | **Non-Participating** | **726795.81** | **4775870.01** | **35** | **36** | **42** | **40** | **34** | **34** | **29** | **22** | **6** | **0** |
| **787** | **Residential** | **Non-Participating** | **732705.58** | **4776616.09** | **0** | **6** | **12** | **12** | **3** | **0** | **0** | **0** | **0** | **0** |

# APPENDIX 7-A.6: COLLECTOR SUBSTATION LAYOUT

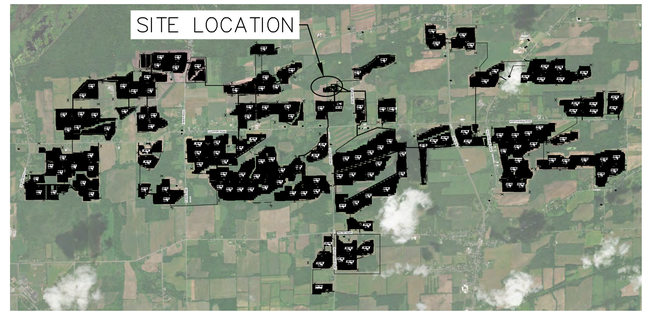
NORTH–SOUTH BASELINE

N




0 50'–0" 100'–0"

SCALE: 1"=50'–0"




## AERIAL MAP

SCALE: NTS

CONCEPTUAL DESIGN

| Revision | By | Appd. | YY.MM.DD |
|---|---|---|---|
| | | | |

| Issued | By | Appd. | YY.MM.DD |
|---|---|---|---|
| A EXHIBIT 5: DESIGN DRAWINGS | CDI | CAL | 21.XX.XX |

Hecate Energy

Consultants

Stantec

1599 RT 34 Suite 3
Wall Township, NJ
www.stantec.com

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
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Client/Project

HECATE ENERGY
CIDER SOLAR 500MW AC SOLAR PROJECT

GENESSEE COUNTY, NY

| File Name: E-201 | CDI | CAL | CDI | 20.10.05 |
|---|---|---|---|---|
| | Dwn. | Chkd. | Dsgn. | YY.MM.DD |

Title

CONCEPTUAL - SUBSTATION & SWITCHYARD OVERALL

| Project No. | Scale | |
|---|---|---|
| 190502038 | AS NOTED | |
| Drawing No. | Sheet | Revision |
| E-201 | 3 of 4 | A |

V:\2020\P. CAD\INTER-OFFICE\190502038 HECATE CIDER SOLAR\E-201.dwg
2021/03/19 12:07 PM By: tmoi, Chris

# APPENDIX 7-A.7: MANUFACTURER SOUND LEVEL DATA SHEETS

VIRGINIA - GEORGIA TRANSFORMER
ONE SOURCE–ONE COMMITMENT

Georgia Transformer
HV Test Laboratory
2789 Highway 21 South
Rincon, GA 31326

Test Report – TR 20.0347

# FACTORY ACCEPTANCE TESTS

## THREE-PHASE CORE TYPE TRANSFORMER

## 166.2 / 221.6 / 281.0 MVA @ 65°C

## 345.0 / 34.5 / 13.8 kV

PROJECT: GA352A

CUSTOMER P.O. No.: 2019-RAMSEY-1

Client: HECATE ENERGY LLC

Date: August 04, 2020

Georgia Transformer
HV Test Laboratorv
2789 Highway 21 South
Rincon, GA 31326

# Sound Pressure Level Test

Test Object:

Core Type Power Transformer 166.2/221.6/281MVA@65°C 345.0/34.5/13.8kV

Serial Number: GA352A

Test Conditions: Transformer Fully assembled and filled with oil.
Transformer energized at full voltage

The measurements were made and reported as described in Standard: IEEE Std C57.12.90

Height: 4.47 m (app.) Contour length: ONAN: 34.2 ONAF1: 42.8 ONAF2: 42.8 m

Test Equipment: EXTECH SDL 600 Sound Level Meter

Test Results: "A" weighted sound pressure level measurements

Date: 08.03.2020
Results: Satisfactory

## Cooling: ONAN — No Fans

| | | | |
|---|---|---|---|
| ($L_{bgAend}$) Background Noise in dB(A): | 49.9 | Measurements Surface Area: | 191.0 m² |
| ($L_P$) Sound Pressure Level in dB(A): | 68.0 | (Lw) Sound Power Level | 91 dB(A) |
| (Lpa)Corrected Sound Pressure Level in dB(A): | 68.0 | | |
| Guaranteed Sound Pressure Level in dB(A): | 85 | | |

## Cooling: ONAF1 — 24 Fans ON

| | | | |
|---|---|---|---|
| ($L_{bgAend}$) Background Noise in dB(A): | 49.9 | Measurements Surface Area: | 239 m² |
| ($L_P$) Sound Pressure Level in dB(A): | 71.1 | (Lw) Sound Power Level : | 95 dB(A) |
| (Lpa)Corrected Sound Pressure Level in dB(A): | 71.1 | | |
| Guaranteed Sound Pressure Level in dB(A): | NA | | |

## Cooling: ONAF2 — 48 Fans ON

| | | | |
|---|---|---|---|
| ($L_{bgAend}$) Background Noise in dB(A): | 49.9 | Measurements Surface Area: | 239 m² |
| ($L_P$) Sound Pressure Level in dB(A): | 73.8 | (Lw) Sound Power Level : | 98 dB(A) |
| (Lpa)Corrected Sound Pressure Level in dB(A): | 73.8 | | |
| Guaranteed Sound Pressure Level in dB(A): | 88 | | |

Date: August 4, 2020

Georgia Transformer
HV Test Laboratory
2789 Highway 21 South
Rincon, GA 31326

## Sound Pressure Level Test

Test Object:

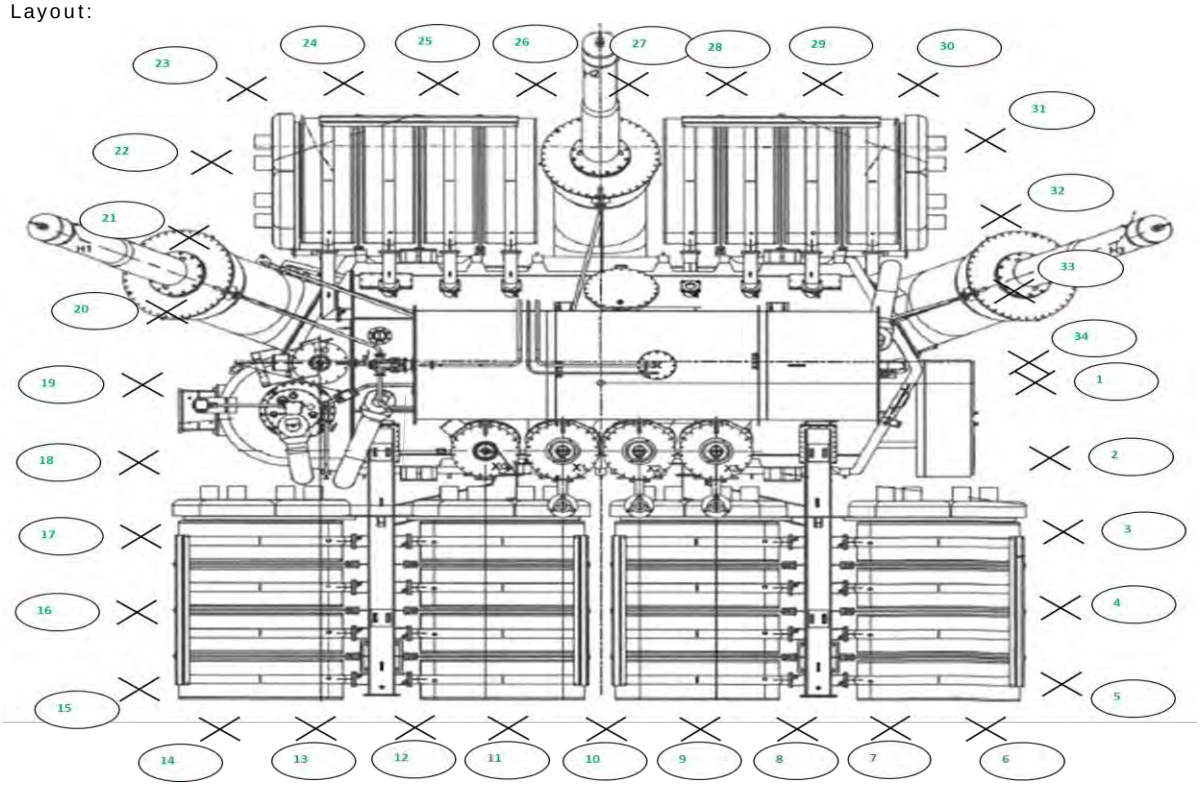
Core type power transformer 166.2/221.6/281MVA@65°C 345.0/34.5/13.8kV

Serial Number: GA352A

Test Conditions: Transformer Fully assembled and filled with oil. Tap Pos. 16R

Cooling: ONAN Distance: 0.3 m Voltage Applied: 34.5 kV Frequency: 60 Hz
Measured Points: 34 Contour lenght: 34.2 m

Layout:




Measurements in dB(A):

| point | Back-ground Beginning | Back-ground End | Measurements 1/3 height | Measurements 2/3 height | point | Back-ground Beginning | Back-ground End | Measurements 1/3 height | Measurements 2/3 height |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 49.4 | 49.6 | 64.5 | 67.6 | 18 | | | 67.5 | 63.8 |
| 2 | | | 64.0 | 67.1 | 19 | 50.2 | 50.5 | 67.7 | 69.1 |
| 3 | | | 64.3 | 69.3 | 20 | | | 68.5 | 65.9 |
| 4 | | | 69.0 | 66.9 | 21 | | | 67.8 | 68.5 |
| 5 | | | 64.1 | 64.0 | 22 | | | 64.6 | 68.6 |
| 6 | | | 70.6 | 64.1 | 23 | | | 70.6 | 64.4 |
| 7 | | | 65.8 | 66.8 | 24 | | | 68.7 | 67.3 |
| 8 | | | 64.4 | 68.4 | 25 | | | 68.2 | 69.4 |
| 9 | | | 73.3 | 68.6 | 26 | | | 67.7 | 65.5 |
| 10 | 49.7 | 49.9 | 66.7 | 67.2 | 27 | 49.8 | 50.1 | 71.1 | 67.2 |
| 11 | | | 69.6 | 68.3 | 28 | | | 69.7 | 70.2 |
| 12 | | | 68.1 | 67.6 | 29 | | | 68.9 | 69.0 |
| 13 | | | 71.6 | 69.0 | 30 | | | 71.6 | 69.1 |
| 14 | | | 65.5 | 68.3 | 31 | | | 65.8 | 64.4 |
| 15 | | | 67.3 | 64.0 | 32 | | | 68.7 | 66.7 |
| 16 | | | 64.9 | 68.1 | 33 | | | 69.9 | 66.1 |
| 17 | | | 62.4 | 65.8 | 34 | | | 68.0 | 67.8 |

Date: August 4, 2020

VIRGINIA - GEORGIA TRANSFORMER
ONE SOURCE–ONE COMMITMENT

Georgia Transformer
HV Test Laboratory
2789 Highway 21 South
Rincon, GA 31326

# Test Report - TR 20.0347
## Annex 2

## Sound Pressure Level Test

Test Object:

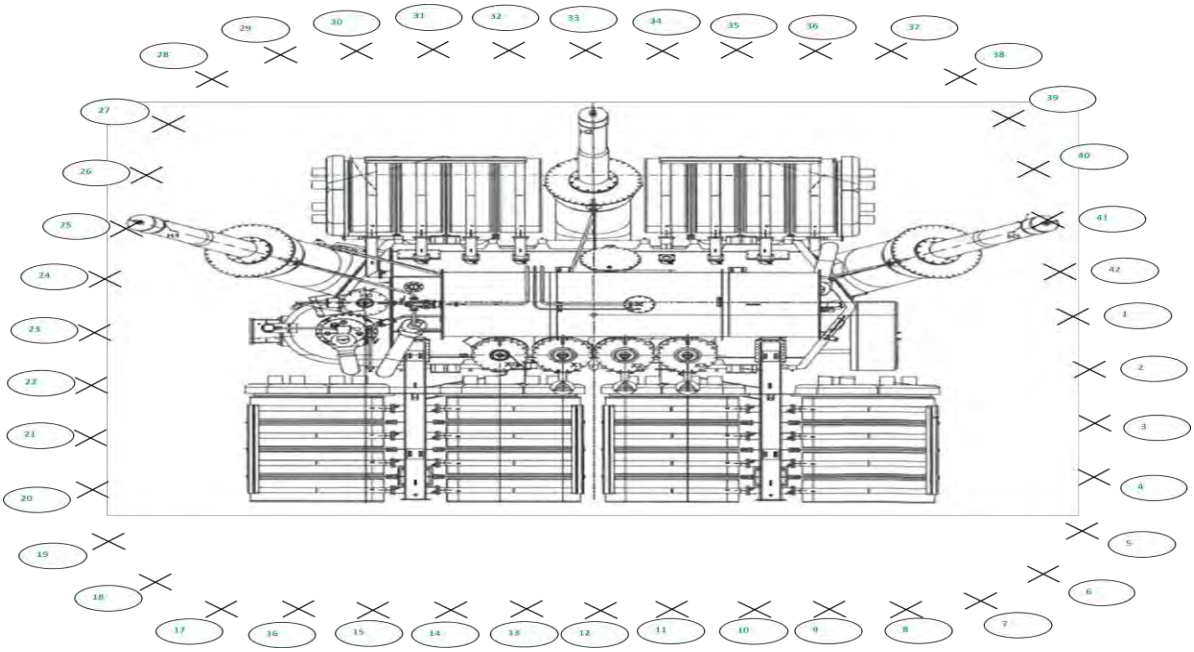
Core type power transformer 166.2/221.6/281MVA@65°C 345.0/34.5/13.8kV PROJ.: GA352A

Test Conditions: Transformer Fully assembled and filled with oil. Tap Pos. 16R 24 Fans ON

Cooling: ONAF1 Distance: 2m Voltage Applied: 34.5kV Frequency 60 Hz

Measured Points: 42 Contour lenght: 42.8 m

Layout:



5 - Measurements in dB(A):

| point | Back-ground Beginning | Back-ground End | Measurements 1/3 height | Measurements 2/3 height | point | Back-ground Beginning | Back-ground End | Measurements 1/3 height | Measurements 2/3 height |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 49.4 | 49.6 | 69.8 | 69.4 | 22 | | | 71.0 | 69.9 |
| 2 | | | 69.9 | 76.1 | 23 | 50.2 | 50.5 | 71.9 | 69.9 |
| 3 | | | 70.3 | 70.9 | 24 | | | 70.8 | 69.5 |
| 4 | | | 70.5 | 69.8 | 25 | | | 71.9 | 71.4 |
| 5 | | | 70.4 | 69.1 | 26 | | | 72.3 | 70.7 |
| 6 | | | 69.2 | 69.4 | 27 | | | 71.4 | 71.8 |
| 7 | | | 70.6 | 69.8 | 28 | | | 71.0 | 70.9 |
| 8 | | | 70.5 | 71.1 | 29 | | | 70.4 | 71.3 |
| 9 | | | 70.6 | 72.8 | 30 | | | 69.0 | 69.5 |
| 10 | | | 71.9 | 73.7 | 31 | | | 69.9 | 69.4 |
| 11 | | | 72.1 | 72.1 | 32 | | | 70.0 | 69.6 |
| 12 | 49.7 | 49.9 | 73.5 | 72.2 | 33 | 49.8 | 50.1 | 68.8 | 68.9 |
| 13 | | | 73.0 | 73.3 | 34 | | | 71.2 | 71.9 |
| 14 | | | 71.8 | 73.7 | 35 | | | 70.0 | 69.3 |
| 15 | | | 72.4 | 74.6 | 36 | | | 67.6 | 69.3 |
| 16 | | | 72.3 | 71.3 | 37 | | | 70.8 | 70.8 |
| 17 | | | 70.7 | 71.9 | 38 | | | 72.6 | 69.8 |
| 18 | | | 70.1 | 70.9 | 39 | | | 69.4 | 70.2 |
| 19 | | | 70.0 | 69.4 | 40 | | | 70.8 | 71.6 |
| 20 | | | 69.0 | 69.4 | 41 | | | 71.4 | 70.9 |
| 21 | | | 70.3 | 70.0 | 42 | | | 71.3 | 71.8 |

Date: August 4, 2020

# Test Report - TR 20.0347
## Annex 2
## Sound Pressure Level Test

Test Object:

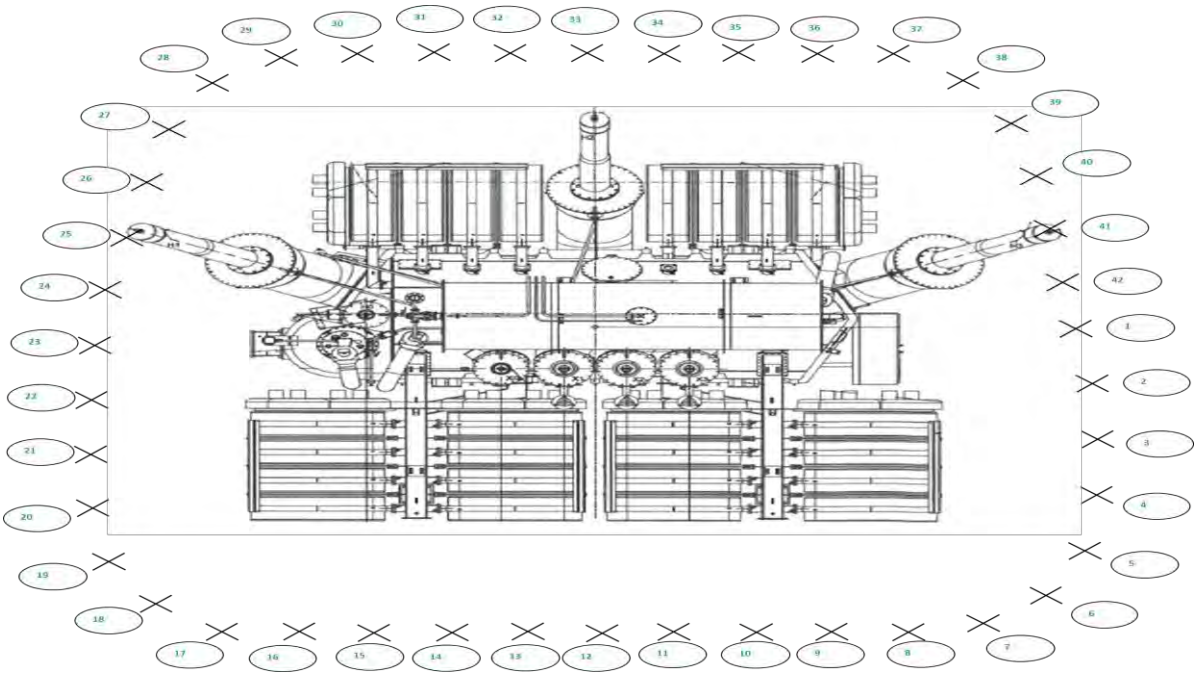
Core type power transformer 166.2/221.6/281MVA@65°C 345.0/34.5/13.8kV PROJ.: GA352A

Test Conditions: Transformer Fully assembled and filled with oil. Tap Pos. 16R 48 Fans ON

Cooling: ONAF2 Distance: 2m Voltage Applied: 34.5kV Frequency 60 Hz

Measured Points: 42 Contour lenght: 42.8 m

Layout:



5 - Measurements in dB(A):

| point | Back-ground Beginning | Back-ground End | Measurements 1/3 height | Measurements 2/3 height | point | Back-ground Beginning | Back-ground End | Measurements 1/3 height | Measurements 2/3 height |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 49.4 | 49.6 | 72.8 | 72.8 | 22 | | | 71.8 | 72.1 |
| 2 | | | 72.6 | 72.7 | 23 | 50.2 | 50.5 | 72.7 | 74.1 |
| 3 | | | 72.8 | 72.9 | 24 | | | 73.0 | 72.9 |
| 4 | | | 72.6 | 72.1 | 25 | | | 74.1 | 73.1 |
| 5 | | | 71.6 | 70.7 | 26 | | | 73.6 | 73.9 |
| 6 | | | 72.1 | 72.1 | 27 | | | 74.1 | 74.7 |
| 7 | | | 72.3 | 72.6 | 28 | | | 74.2 | 75.4 |
| 8 | | | 73.1 | 74.7 | 29 | | | 74.0 | 74.0 |
| 9 | | | 74.6 | 73.6 | 30 | | | 71.6 | 72.4 |
| 10 | | | 76.4 | 74.9 | 31 | | | 72.2 | 71.6 |
| 11 | | | 75.4 | 75.7 | 32 | | | 71.7 | 71.1 |
| 12 | 49.7 | 49.9 | 77.7 | 75.8 | 33 | 49.8 | 50.1 | 73.0 | 72.3 |
| 13 | | | 76.4 | 76.6 | 34 | | | 73.0 | 73.1 |
| 14 | | | 75.5 | 76.8 | 35 | | | 71.5 | 72.3 |
| 15 | | | 75.4 | 76.8 | 36 | | | 71.0 | 71.6 |
| 16 | | | 75.3 | 76.0 | 37 | | | 71.4 | 72.2 |
| 17 | | | 74.9 | 74.7 | 38 | | | 74.2 | 71.9 |
| 18 | | | 74.1 | 74.2 | 39 | | | 72.3 | 73.1 |
| 19 | | | 74.3 | 72.7 | 40 | | | 74.2 | 75.3 |
| 20 | | | 72.1 | 72.2 | 41 | | | 74.0 | 74.9 |
| 21 | | | 71.8 | 71.9 | 42 | | | 74.3 | 74.0 |

# Acoustic Test Center, Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences
# Test Report



| | | | |
|---|---|---|---|
| **Sample Name** | PV Grid-Connected Inverter | **Test Kind** | on-site sample test |
| **Sample Quantity** | 2 | **Model/Type** | SG3600UD-MV |
| **Sample Description** | good, without broken | **Receipt Date** | 2021-01-27 |
| **Sample Number** | ATC210014(1-2) | **Test Date** | 2021-01-27 |
| **Name of Client** | Sungrow Power Supply Co., ltd | | |
| **Address of Client** | No.1699 Xiyou Rd. New & High Technology Industrial Development Zone, Hefei, P.R. China | | |
| **Environment for Test** | ATC210014(1)<br>Temperature: 18.5℃; Humidity:48.0%RH; Atmosphere pressure: 1020.9hPa<br>ATC210014(2)<br>Temperature: 11.6℃; Humidity:71.0%RH; Atmosphere pressure: 1022.8hPa | | |
| **Test Standard** | ISO 3746:2010 Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane | | |
| **Test Item** | Sound power level | | |
| **Location of Test** | ATC210014(1)<br>No. 3318, Lianhua Road, Hefei Economic and Technological Development Zone, Anhui Province P.R. China<br>ATC210014(2)<br>No.1699 Xiyou Rd. New & High Technology Industrial Development Zone, Hefei, P.R. China | | |
| **Test Conclusion** | See Test Result<br><br>（test seal） | | |
| **Note** | \ | | |

**Approval:** **Verification：** **Chief tester：**

**Date：** **Date：** **Date：**

# Acoustic Test Center, Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences
# Test Report (Continuation Sheet)



**Test Condition**

1. The PV Grid-Connected Inverter (SG3600UD-MV) is combined by inverter and transformer, sample ATC210014(1) is the transformer，and sample ATC210014(2) is the inverter, they are measured separately;

2. Reference box of the transformer: $l_1$=2000, $l_2$=1940mm, $l_3$=2600mm, and the measurement distance $d$=1300mm, 12 microphone positions are used as shown in Fig.1 according to Annex C in the ISO 3746-2010, and the measurement surface area $S_1$ = 92.2m$^2$;

3. The Transformer is test in a silent room, and its low voltage side was connected to 660V-60Hz power supply(transformer is in no-load state);

4. Reference box of the inverter: $l_1$=2200mm, $l_2$=1500mm, $l_3$=2400mm, the measurement distance $d$=1300mm, 12 microphone positions are used as shown in Fig.2 according to Annex C in the ISO 3746-2010, and the measurement surface area $S_2$ = 85.5m$^2$;

5. The inverter is test in a industrial room and is set to the full load state ;

6. Each microphone position is tested for 30s;

7. The main equipment for testing is shown in Table 1;

8. The microphone was field calibrated before and after the measurements to verify accuracy of the measurements.

**Table 1 Main equipment for test**

| Name | Type\Serial Number | Validity |
|---|---|---|
| Sound Calibrator | B&K Type 4231\2725159 | 2021-09-01 |
| Data Acquisition System | B&K Type 3050-A-060\3050-105837 | 2021-09-02 |
| Microphone | GRAS 46AE\270180 | 2021-09-01 |
| Microphone | GRAS 46AE\270292 | 2021-09-01 |
| Microphone | GRAS 46AE\270293 | 2021-09-01 |
| Microphone | GRAS 46AE\270299 | 2021-09-01 |

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# Acoustic Test Center, Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences
# Test Report (Continuation Sheet)



**Test Result**

**Table 2 Calculated Transformer Sound Power Level for 1/1 Octave Bands**

| Item | Sound Levels at Octave Band Center Frequencies (dB) | | | | | | | | | Overall Sound Power | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | (dBA) | (dB) |
| Transformer | 67.8 | 60.5 | 70.3 | 72.4 | 63.5 | 55.8 | 43.1 | 34.1 | 29.3 | 65.8 | 74.5 |

**Table 3: Calculated Transformer Sound Power Level for 1/3 Octave Bands**

| 1/3 Octave Band Center Frequencies/Hz | Sound Power level/dB | 1/3 Octave Band Center Frequencies/Hz | Sound Power level/dB |
|---|---|---|---|
| **20** | 62.4 | **500** | 58.9 |
| **25** | 66.7 | **630** | 55.7 |
| **31.5** | 60.3 | **800** | 54.2 |
| **40** | 55.9 | **1000** | 48.8 |
| **50** | 57.4 | **1250** | 45.2 |
| **63** | 55.3 | **1600** | 41.5 |
| **80** | 53.7 | **2000** | 37.6 |
| **100** | 58.1 | **2500** | 33.7 |
| **125** | 70.3 | **3150** | 30.9 |
| **160** | 55.3 | **4000** | 28.8 |
| **200** | 57.1 | **5000** | 27.6 |
| **250** | 72.1 | **6300** | 26.3 |
| **315** | 56.7 | **8000** | 23.9 |
| **400** | 59.6 | **10000** | 22.6 |

**Note:** The underlined data represent upper bounds to the sound power level of the noise source under test.

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# Acoustic Test Center, Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences
# Test Report (Continuation Sheet)



**Test Result**

**Table 4 Calculated Inverter Sound Power Level for 1/1 Octave Bands**

| Item | Sound Levels at Octave Band Center Frequencies (dB) | | | | | | | | | Overall Sound Power | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 31.5 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | (dBA) | (dB) |
| Inverter | 85.5 | 85.3 | 86.6 | 85.9 | 90.1 | 81.0 | 80.3 | 88.1 | 80.6 | 91.9 | 95.7 |

**Table 5 Calculated Inverter Sound Power Level for 1/3 Octave Bands**

| 1/3 Octave Band Center Frequencies/Hz | Sound Power level/dB | 1/3 Octave Band Center Frequencies/Hz | Sound Power level/dB |
|---|---|---|---|
| **20** | 70.2 | **500** | 85.6 |
| **25** | 76.2 | **630** | 80.6 |
| **31.5** | 81.3 | **800** | 78.2 |
| **40** | 82.4 | **1000** | 76.0 |
| **50** | 81.6 | **1250** | 74.2 |
| **63** | 80.4 | **1600** | 74.5 |
| **80** | 79.2 | **2000** | 75.0 |
| **100** | 80.2 | **2500** | 76.4 |
| **125** | 84.0 | **3150** | 74.9 |
| **160** | 79.6 | **4000** | 70.7 |
| **200** | 77.5 | **5000** | 87.6 |
| **250** | 80.8 | **6300** | 80.2 |
| **315** | 83.4 | **8000** | 73.9 |
| **400** | 87.0 | **10000** | 73.1 |

**Note:** Because the sound power of inverter is much larger than the value of the transformer, so the total noise of the transformer and the inverter in the test state is the value of the inverter.

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# Acoustic Test Center, Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences
# Test Report (Continuation Sheet)



**Photos on Site**

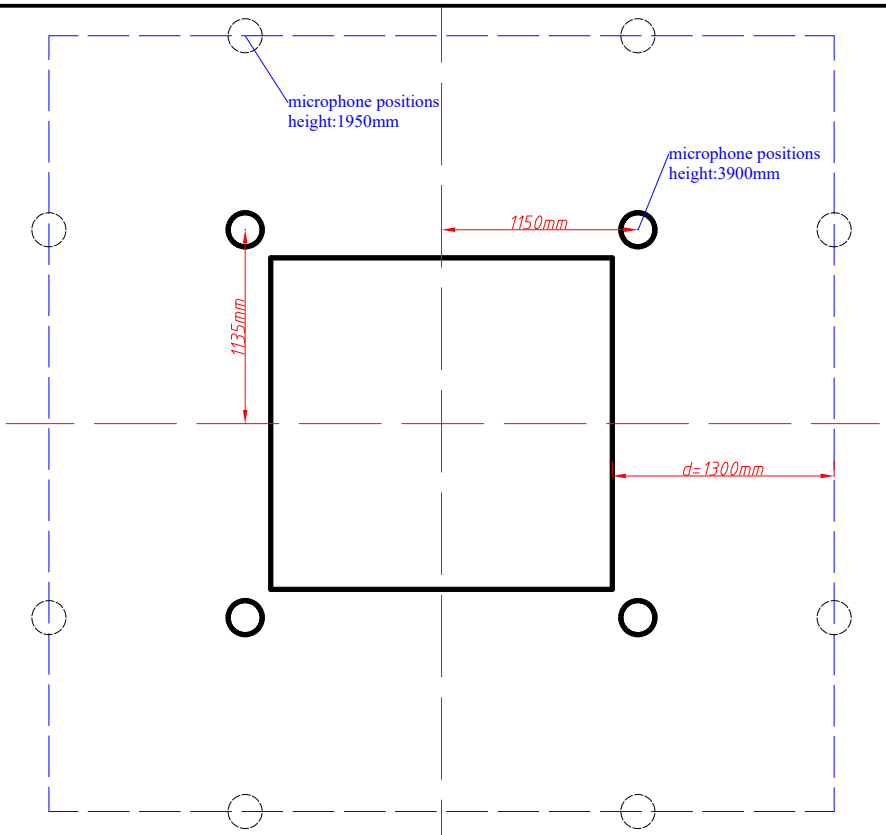



**Figure 1 microphone positions of the transformer**

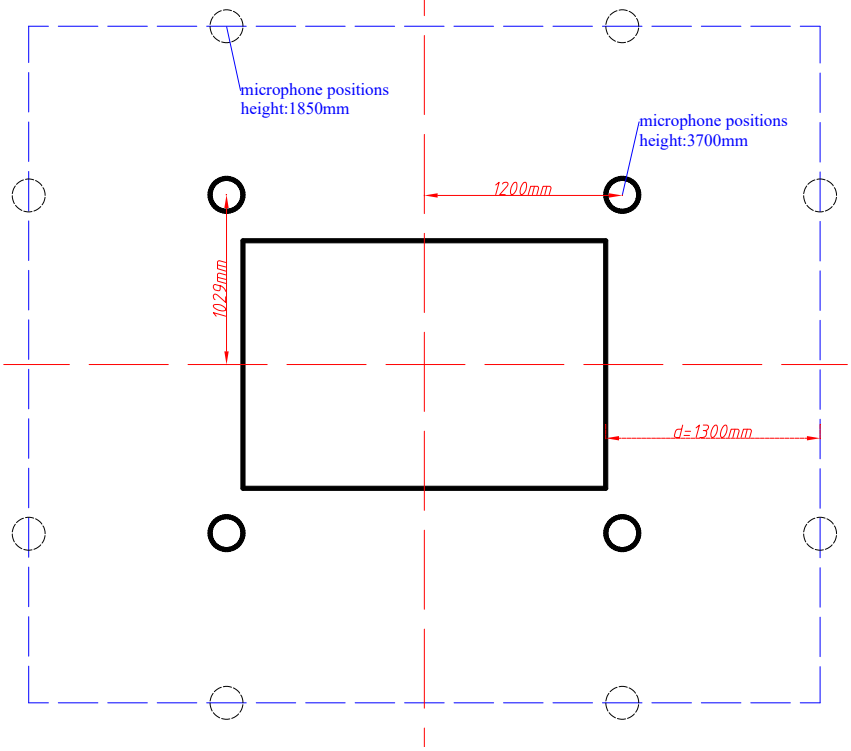



**Figure 2 microphone positions of the inverter**

# Acoustic Test Center, Qingdao Branch, Institute of Acoustics, Chinese Academy of Sciences
# Test Report (Continuation Sheet)



**Photos on Site**



**Figure 3 Image of the tansformer under test**



**Figure 4 Image of the inverter under test**

**-Test Report End-**

# APPENDIX 7-A.8: CUMULATIVE ANALYSIS

**EXHIBIT 7: NOISE AND VIBRATION**

This section provides a detailed explanation as to why a cumulative analysis is not required for the Cider Solar Farm. There are three proposed renewable energy projects in proximity to Cider Solar Farm that were examined for possible cumulative noise impacts:

1. Excelsior Energy Center Solar Project—Town of Byron, Genesee County
2. Orleans Solar—Towns of Shelby and Barre, Orleans County
3. Heritage Wind—Town of Barre, Orleans County

Excelsior Energy was deemed to have a complete Article 10 application as of April 7, 2021. Therefore, publicly available sound level information was available for Excelsior Energy. Orleans Solar has not filed a permit application either under Article 10 or the Section 94-c process. Therefore, no public information on sound is available. However, a rough idea of their project study area was found on-line. Heritage Wind was deemed to have a complete Article 10 application as of December 8, 2020. This project has since moved over to the Section 94-c permitting process. Therefore, publicly available sound level information was available for Heritage Wind.

Using publicly available information, Figure 7-A 8.1 was compiled by Stantec showing these three proposed projects in relation to Cider Solar Farm's 3,000-foot setback from any noise component. The results are clear—none of the three projects are close to reaching the 3,000-foot radius required in Section 900-2.8.c.2 of the New York State Office of Renewable Energy Siting regulations.

Epsilon Associates, Inc. is also the sound consultant for the Excelsior Energy and Heritage Wind projects. Therefore, data for the 30 A-weighted decibel (dBA) sound level contours were readily available. These data were overlaid with the 30 dBA contour from Cider Solar Farm and are shown in Figure 7-A 8.2.

A review of Figure 7-A 8.2 shows that the Excelsior Energy 30 dBA contour is more than 1 mile away from the Cider Solar Farm contour at its nearest approach. Given this distance, the two projects combined will not be over 30 dBA combined; therefore, no cumulative analysis is required with Excelsior Energy. As noted above, no publicly available sound data are available for Orleans Solar so the location of the 30 dBA contour is unknown. However, from Figure 1, the nearest edge of Orleans Solar is roughly the same distance from Cider Solar Farm as Excelsior Energy is from Cider Solar Farm. Therefore, the same conclusion on sound is reasonable for Orleans Solar as Excelsior Energy and no cumulative analysis is necessary.

Section 900-2.8.c.2 for cumulative modeling refers only to solar facilities, so it's not clear that Heritage Wind even needs to be evaluated for cumulative impacts with Cider Solar Farm. However, potential cumulative impacts were examined for informational purposes. The 30 dBA contour from Cider Solar Farm and the 30 dBA contour from Heritage Wind do not overlap. In fact, they are never closer than a few thousand feet. To provide more detail, the 20 dBA contour from Cider Solar was added to Figure 7-A 8.2. The area of overlap with the Cider Solar 20 dBA contour and Heritage Wind 30 dBA contour would have the highest cumulative impacts.

Using the Genesee County GIS Web Viewer, Epsilon Associates reviewed all of the addresses with homes in the area of the Cider Solar Farm 20 dBA/Heritage Wind 30 dBA overlap. There are roughly 10 receptors in this overlap area, which fall along one roadway (Fisher Road, Oakfield, New York). These 10 receptors and their cumulative sound levels from both projects are summarized in Table 7-A.8.1. As the table clearly shows, the cumulative sound levels of the Cider Solar Farm and Heritage Wind projects do not adversely impact any residences, as all total sound levels are 35 dBA or less.

**EXHIBIT 7: NOISE AND VIBRATION**

**Table 7-A.8.1: Cumulative Sound Levels**

| Heritage Wind Receptor ID | Cider Solar Receptor ID | Receptor Type | Coordinates UTM NAD83 Zone 17N | | Heritage Wind Project Only Maximum 8-hour $L_{eq}$ [dBA] | Cider Solar Project Only Maximum 8-hour $L_{eq}$ [dBA] | Calculated Cumulative Maximum 8-hour $L_{eq}$ [dBA] |
|---|---|---|---|---|---|---|---|
| | | | X (meters) | Y (meters) | | | |
| 1740 | --- | Year-Round Residence | 722934 | 4778310 | 33 | 20 | 33 |
| 1754 | --- | Unknown | 723106 | 4778390 | 34 | 20 | 34 |
| 1755 | --- | Unknown | 723082 | 4778390 | 34 | 20 | 34 |
| 1756 | --- | Unknown | 723058 | 4778400 | 34 | 20 | 34 |
| 1758 | --- | Year-Round Residence | 723195 | 4778390 | 34 | 20 | 34 |
| 1759 | --- | Unknown | 723178 | 4778370 | 34 | 20 | 34 |
| 1760 | --- | Year-Round Residence | 723367 | 4778430 | 34 | 20 | 34 |
| 1780 | --- | Public | 723729 | 4778560 | 35 | 19 | 35 |
| --- | 147 | Residential | 724194 | 4777092 | 28 | 29 | 31 |
| --- | 148 | Accessory | 724300 | 4777459 | 30 | 25 | 31 |

**EXHIBIT 7: NOISE AND VIBRATION**

**Figure 7-A 8.1. Cumulative Noise Overview (from Stantec)**

Stantec

Legend

- Project Area

Proposed Project

- Collection Substation
- Inverter
- PV Panel Array
- Collection Line
- Fence Line
- Access Road
- 3000ft Buffer - Inverter and Collection Substation

Existing Features

- Municipal Boundary

Other Proposed Project Locations

- Excelsior Energy Center
- Heritage Wind Project
- Orleans Solar

N

0 1.5 3 Miles

(At original document size of 11x17)
1:95,040

***Notes***

**1.** Coordinate System: NAD 1983 StatePlane New York West FIPS 3103 Feet
**2.** Data Sources: NYS Office of ITS GPO, NYS Civil Boundaries, 2018
**3.** Background: USGS Topo Basemap - The National Map (Web Map Service); Data refreshed May, 2020.




*Project Location*
Towns of Elba and Oakfield
Genesee County, NY

Prepared by AS on 2021-04-08
TR by XX on 2021-XX-XX
IR by XX on 2021-XX-XX

*Client/Project*
Hecate Energy Cider Solar LLC
Cider Solar Farm

190502038 REVA

*Figure No.*
**1**

*Title*
**Cumulative Noise Overview**

C:\Users\astapleton\Desktop\Working\CSF\CSF_Noise.mxd Revised: 2021-04-13 By: astapleton

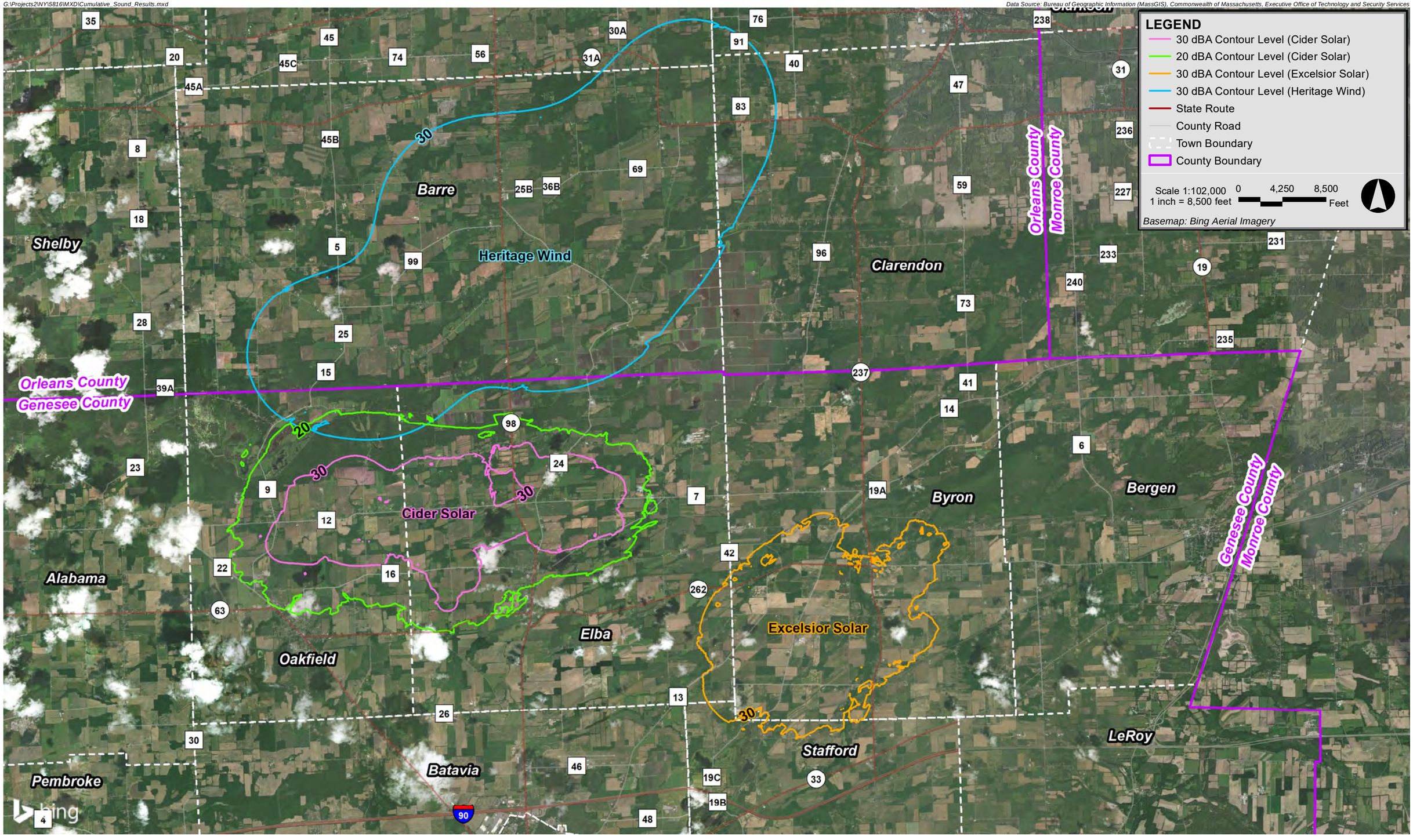
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**EXHIBIT 7: NOISE AND VIBRATION**

**Figure 7-A 8.2. Cumulative Sound Level Contours**

G:\Projects2\NY\5816\MXD\Cumulative_Sound_Results.mxd

Data Source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services




**Cider Solar, Excelsior Solar and Heritage Wind  Orleans, Genesee & Monroe Counties, New York**

Epsilon Associates Inc.

**Figure 2**

*Cumulative Sound Level Contours*