Appendix G Noise

| | | | EXISTI | NG COND | ITIONS | | NO A | CTION | | | | | | WITH A | CTION | | | | |
|--|----------------|------------|--------|---------|--------------------|--------|------|--------|--------|--------------|----------|---------------|--------------|---------|----------------|--------------------|--------------------------|-----------------|--------|
| Receptor Location | Site | Hour | Volume | PCEs | L _{eq(1)} | Volume | PCEs | Leq(1) | Change | P-G Autos | P-G Taxi | P-G Medium | P-G Heavy | P-G Bus | Total PCE's | Traffic Leq (1) | Equipme nt Leq (1) | Total Leq(1) | Change |
| Richmond Terrace between Schuyler | 4 | Weekday MD | 861 | 2046 | 68.1 | 1201 | 2854 | 69.5 | 1.4 | 677 | 52 | 10 | | 4 | 3785 | 70.7 | 29.4 | 70.7 | 1.2 |
| and Wall Streets | 1 | Weekday PM | 1145 | 2764 | 68.5 | 1606 | 3876 | 70.0 | 1.5 | 684 | 51 | 2 | | 4 | 4709 | 70.8 | 29.4 | 70.8 | 0.8 |
| Richmond Terrace between Stuyvesant | 0 | Weekday MD | 742 | 2012 | 69.4 | 911 | 2470 | 70.3 | 0.9 | 226 | 32 | 2 | | 4 | 2826 | 70.9 | 39.8 | 70.9 | 0.6 |
| Place and Nicholas Street | 2 | Weekday PM | 1021 | 2639 | 70.3 | 1190 | 3076 | 71.0 | 0.7 | 240 | 31 | 0 | | 4 | 3419 | 71.5 | 39.8 | 71.5 | 0.5 |
| Richmond Terrace between Nicholas | _ | Weekday MD | 717 | 1988 | 66.0 | 883 | 2448 | 66.9 | 0.9 | 123 | 32 | 2 | | 4 | 2701 | 67.3 | 31.1 | 67.3 | 0.4 |
| Street and St. Peters Place | 3 | Weekday PM | 1001 | 2587 | 68.5 | 1174 | 3034 | 69.2 | 0.7 | 124 | 31 | 0 | | 4 | 3261 | 69.5 | 31.1 | 69.5 | 0.3 |
| North Chara Waterfront Foolson de | | Weekday MD | 126 | 219 | 59.4 | 139 | 241 | 59.8 | 0.4 | 127 | 0 | 0 | | 0 | 368 | 61.6 | 40.0 | 61.6 | 1.8 |
| North Shore Waterfront Esplanade | 4 | Weekday PM | 148 | 185 | 58.7 | 177 | 222 | 59.5 | 0.8 | 130 | 0 | 0 | | 0 | 352 | 61.5 | 40.0 | 61.5 | 2.0 |
| Closest open space location to the | ۸+ | Weekday MD | | | 59.4 | | | 59.8 | 0.4 | | | | | | | 61.6 | 51.7 | 62.0 | 2.2 |
| Wheel A* | A ⁻ | Weekday PM | | | 58.7 | | | 59.5 | 0.8 | | | | | | | 61.5 | 51.7 | 61.9 | 2.4 |
| Parking lot near the Staten Island Ferry 5 | _ | Weekday MD | | | 64.3 | | | 64.3 | 0.0 | | | | | | | 64.3 | 32.9 | 64.3 | 0.0 |
| | 5 | Weekday PM | | | 63.0 | | | 63.0 | 0.0 | | | | | | | 63.0 | 32.9 | 63.0 | 0.0 |

^{*}Existing and No Action noise levels at the closest open space location to the Wheel were estimated as the same values at Receptor Site 4.

| Receptor Location | Site | Hour | No Action Change | Existing L10 | Category (Existing L10 noise levels) | Existing L10 + NA Change = NA L10 | Category (NA L10 noise levels) | With Action Change | No Action L10 | No Action L10 + With Action Change = With Action L10 | Category (With Action L10 noise levels) |
|--------------------------------------|------|------------|---------------------|--------------|--------------------------------------|--------------------------------------|--------------------------------|-----------------------|---------------|--|---|
| N 4 0 W 4 6 4 5 1 | 4 | Weekday MD | 1.4 | 71.2 | MARGINALLY UNACCEPTABLE | 72.6 | MARGINALLY UNACCEPTABLE | 1.2 | 72.6 | 73.8 | MARGINALLY UNACCEPTABLE |
| North Shore Waterfront Esplanade | ' | Weekday PM | 1.5 | 72.6 | MARGINALLY UNACCEPTABLE | 74.1 | MARGINALLY UNACCEPTABLE | 0.8 | 74.1 | 74.9 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between | 2 | Weekday MD | 0.9 | 73.5 | MARGINALLY UNACCEPTABLE | 74.4 | MARGINALLY UNACCEPTABLE | 0.6 | 74.4 | 75.0 | MARGINALLY UNACCEPTABLE |
| Stuyvesant Place and Nicholas Street | - | Weekday PM | 0.7 | 74.2 | MARGINALLY UNACCEPTABLE | 74.9 | MARGINALLY UNACCEPTABLE | 0.5 | 74.9 | 75.4 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between Nicholas | 3 | Weekday MD | 0.9 | 70.8 | MARGINALLY UNACCEPTABLE | 71.7 | MARGINALLY UNACCEPTABLE | 0.4 | 71.7 | 72.1 | MARGINALLY UNACCEPTABLE |
| Street and St. Peters Place | _ | Weekday PM | 0.7 | 72.8 | MARGINALLY UNACCEPTABLE | 73.5 | MARGINALLY UNACCEPTABLE | 0.3 | 73.5 | 73.8 | MARGINALLY UNACCEPTABLE |
| North Shore Waterfront Esplanade | 4 | Weekday MD | 0.4 | 62.7 | NA | 63.1 | NA | 1.8 | 63.1 | 64.9 | NA |
| Trotal Glore Waterlieft Espianade | | Weekday PM | 0.8 | 62.6 | NA | 63.4 | NA | 2.0 | 63.4 | 65.4 | NA |
| Closest open space location to the | A | Weekday MD | 0.4 | 62.7 | NA | 63.1 | NA | 2.2 | 63.1 | 65.3 | NA |
| Wheel | | Weekday PM | 0.8 | 62.6 | NA | 63.4 | NA | 2.4 | 63.4 | 65.8 | NA |
| Parking lot near the Staten Island | 5 | Weekday MD | 0.0 | 65.9 | MARGINALLY ACCEPTABLE | 65.9 | MARGINALLY ACCEPTABLE | 0.0 | 65.9 | 65.9 | MARGINALLY ACCEPTABLE |
| Ferry | - | Weekday PM | 0.0 | 63.5 | ACCEPTABLE | 63.5 | ACCEPTABLE | 0.0 | 63.5 | 63.5 | ACCEPTABLE |

| | | | EXISTI | NG CONDI | TIONS | | NO A | CTION | | | | | | WITH A | ACTION | | | | |
|---|------|-------------|--------|----------|--------------------|--------|------|--------|--------|-----------|----------|---------------|--------------|---------|----------------|--------------------|----------------------|-----------------|--------|
| Receptor Location | Site | Hour | Volume | PCEs | L _{eq(1)} | Volume | PCEs | Leq(1) | Change | P-G Autos | P-G Taxi | P-G Medium | P-G Heavy | P-G Bus | Total PCE's | Traffic Leq (1) | Equipment Leg (1) | Total Leg(1) | Change |
| Richmond Terrace between Schuyler | 4 | Saturday MD | 714 | 1466 | 67.2 | 1111 | 2281 | 69.1 | 1.9 | 1008 | 70 | 2 | | 4 | 3457 | 70.9 | 29.4 | 70.9 | 1.8 |
| and Wall Streets | , | Saturday PM | 1207 | 2800 | 66.4 | 1639 | 3802 | 67.7 | 1.3 | 836 | 63 | 0 | | 4 | 4773 | 68.7 | 29.4 | 68.7 | 1.0 |
| Richmond Terrace between Stuyvesant | 0 | Saturday MD | 581 | 1005 | 67.1 | 758 | 1311 | 68.3 | 1.2 | 302 | 46 | 0 | | 4 | 1731 | 69.5 | 39.8 | 69.5 | 1.2 |
| Place and Nicholas Street | 2 | Saturday PM | 939 | 1222 | 66.7 | 1128 | 1468 | 67.5 | 0.8 | 273 | 39 | 0 | | 4 | 1852 | 68.5 | 39.8 | 68.5 | 1.0 |
| Richmond Terrace between Nicholas | 3 | Saturday MD | 569 | 996 | 66.1 | 747 | 1308 | 67.3 | 1.2 | 194 | 46 | 0 | | 4 | 1620 | 68.2 | 31.1 | 68.2 | 0.9 |
| Street and St. Peters Place | 3 | Saturday PM | 879 | 1163 | 67.5 | 1068 | 1413 | 68.3 | 0.8 | 156 | 39 | 0 | | 4 | 1680 | 69.1 | 31.1 | 69.1 | 0.8 |
| Neath Obers Westerforms Fordered | 4 | Saturday MD | 169 | 169 | 60.5 | 193 | 193 | 61.1 | 0.6 | 178 | 0 | 0 | | 0 | 371 | 63.9 | 40.0 | 63.9 | 2.8 |
| North Shore Waterfront Esplanade | 4 | Saturday PM | 327 | 327 | 60.3 | 368 | 368 | 60.8 | 0.5 | 145 | 0 | 0 | | 0 | 513 | 62.2 | 40.0 | 62.2 | 1.4 |
| On an On an adia and the What I | ۸.+ | Saturday MD | | | 60.5 | | | 61.1 | 0.6 | | | | | | | 63.9 | 51.7 | 64.2 | 3.1 |
| Open Space adjacent to Wheel | A* | Saturday PM | | | 60.3 | | | 60.8 | 0.5 | | | | | | | 62.2 | 51.7 | 62.6 | 1.8 |
| Dadia a lata a sa tha Otata a laland Fara | _ | Saturday MD | | | 60.6 | | | 60.6 | 0.0 | | | | | | | 60.6 | 32.9 | 60.6 | 0.0 |
| arking lot near the Staten Island Ferry | 5 | Saturday PM | | | 61.4 | | | 61.4 | 0.0 | | | | | | | 61.4 | 32.9 | 61.4 | 0.0 |

^{*}Existing and No Action noise levels at the closest open space location to the Wheel were estimated as the same values at Receptor Site 4.

| | | | | | ,, | rroomaay moneers | , | | | | |
|--------------------------------------|------|-------------|---------------------|--------------|--------------------------------------|--------------------------------------|--------------------------------|-----------------------|---------------|--|---|
| Receptor Location | Site | Hour | No Action Change | Existing L10 | Category (Existing L10 noise levels) | Existing L10 + NA Change = NA L10 | Category (NA L10 noise levels) | With Action Change | No Action L10 | No Action L10 + With Action Change = With Action L10 | Category (With Action L10 noise levels) |
| Richmond Terrace between Schuyler | 1 | Saturday MD | 1.9 | 71.5 | MARGINALLY UNACCEPTABLE | 73.4 | MARGINALLY UNACCEPTABLE | 1.8 | 73.4 | 75.2 | MARGINALLY UNACCEPTABLE |
| and Wall Streets | · | Saturday PM | 1.3 | 70.3 | MARGINALLY UNACCEPTABLE | 71.6 | MARGINALLY UNACCEPTABLE | 1.0 | 71.6 | 72.6 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between | 2 | Saturday MD | 1.2 | 70.9 | MARGINALLY UNACCEPTABLE | 72.1 | MARGINALLY UNACCEPTABLE | 1.2 | 72.1 | 73.3 | MARGINALLY UNACCEPTABLE |
| Stuyvesant Place and Nicholas Street | - | Saturday PM | 0.8 | 71.3 | MARGINALLY UNACCEPTABLE | 72.1 | MARGINALLY UNACCEPTABLE | 1.0 | 72.1 | 73.1 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between Nicholas | 3 | Saturday MD | 1.2 | 71.5 | MARGINALLY UNACCEPTABLE | 72.7 | MARGINALLY UNACCEPTABLE | 0.9 | 72.7 | 73.6 | MARGINALLY UNACCEPTABLE |
| Street and St. Peters Place | 3 | Saturday PM | 0.8 | 71.3 | MARGINALLY UNACCEPTABLE | 72.1 | MARGINALLY UNACCEPTABLE | 0.8 | 72.1 | 72.9 | MARGINALLY UNACCEPTABLE |
| Bank Street near shoreline | 4 | Saturday MD | 0.6 | 63.3 | NA | 63.9 | NA | 2.8 | 63.9 | 66.7 | NA |
| Bank Street near Shoreline | • | Saturday PM | 0.5 | 64.6 | NA | 65.1 | NA | 1.4 | 65.1 | 66.5 | NA |
| Open Space adjacent to Wheel | Δ | Saturday MD | 0.6 | 63.3 | NA | 63.9 | NA | 3.1 | 63.9 | 67.0 | NA |
| Open Space adjacent to wheel | , i | Saturday PM | 0.5 | 64.6 | NA | 65.1 | NA | 1.8 | 65.1 | 66.9 | NA |
| Parking lot near the Staten Island | 5 | Saturday MD | 0.0 | 62.1 | ACCEPTABLE | 62.1 | ACCEPTABLE | 0.0 | 62.1 | 62.1 | ACCEPTABLE |
| Ferry | ĭ | Saturday PM | 0.0 | 62.6 | ACCEPTABLE | 62.6 | ACCEPTABLE | 0.0 | 62.6 | 62.6 | ACCEPTABLE |

| | | | | | EXIST | ING COND | ITIONS | | | | NO AC | CTION | | | | | | WITH A | CTION | | | | |
|--|------|------------|--------|-------|---------|----------|--------|------|--------------------|--------|-------|--------|--------|--------------|----------|---------------|--------------|---------|----------------|--------------------|--------------------------|-----------------|--------|
| Receptor Location | Site | Hour | Volume | %Auto | %Medium | %Heavy | %Bus | PCEs | L _{eq(1)} | Volume | PCEs | Leq(1) | Change | P-G Autos | P-G Taxi | P-G Medium | P-G Heavy | P-G Bus | Total PCE's | Traffic Leq (1) | Equipme nt Leq (1) | Total Leq(1) | Change |
| Richmond Terrace between Schuyler | 4 | Weekday MD | 861 | 92.5% | 2.5% | 0.8% | 4.1% | 2046 | 68.1 | 1201 | 2854 | 69.5 | 1.4 | 670 | 50 | 11 | | 4 | 3789 | 70.7 | 29.4 | 70.7 | 1.2 |
| and Wall Streets | ' | Weekday PM | 1145 | 93.3% | 1.0% | 1.1% | 4.6% | 2764 | 68.5 | 1606 | 3876 | 70.0 | 1.5 | 687 | 52 | 2 | | 4 | 4713 | 70.8 | 29.4 | 70.8 | 0.8 |
| Richmond Terrace between Stuyvesant | 0 | Weekday MD | 742 | 90.8% | 3.0% | 1.0% | 5.3% | 2012 | 69.4 | 911 | 2470 | 70.3 | 0.9 | 229 | 31 | 2 | | 4 | 2828 | 70.9 | 39.8 | 70.9 | 0.6 |
| Place and Nicholas Street | 2 | Weekday PM | 1021 | 91.9% | 1.9% | 1.1% | 5.1% | 2639 | 70.3 | 1190 | 3076 | 71.0 | 0.7 | 241 | 33 | 0 | | 4 | 3422 | 71.5 | 39.8 | 71.5 | 0.5 |
| Richmond Terrace between Nicholas | 0 | Weekday MD | 717 | 90.5% | 3.0% | 1.0% | 5.5% | 1988 | 66.0 | 883 | 2448 | 66.9 | 0.9 | 118 | 31 | 2 | | 4 | 2695 | 67.3 | 31.1 | 67.3 | 0.4 |
| Street and St. Peters Place | 3 | Weekday PM | 1001 | 91.7% | 2.0% | 1.0% | 5.3% | 2587 | 68.5 | 1174 | 3034 | 69.2 | 0.7 | 122 | 33 | 0 | | 4 | 3261 | 69.5 | 31.1 | 69.5 | 0.3 |
| North Chara Waterfront Fonlanda | 4 | Weekday MD | 126 | 96.5% | 2.2% | 0.9% | 0.4% | 219 | 59.4 | 139 | 241 | 59.8 | 0.4 | 134 | 0 | 0 | | 0 | 375 | 61.7 | 40.0 | 61.7 | 1.9 |
| North Shore Waterfront Esplanade | 4 | Weekday PM | 148 | 98.8% | 0.9% | 0.3% | 0.0% | 185 | 58.7 | 177 | 222 | 59.5 | 0.8 | 137 | 0 | 0 | | 0 | 359 | 61.6 | 40.0 | 61.6 | 2.1 |
| Closest open space location to the | Α* | Weekday MD | | | | | | | 59.4 | | | 59.8 | 0.4 | | | | | | | 61.7 | 51.7 | 62.1 | 2.3 |
| Wheel | A | Weekday PM | | | | | | | 58.7 | | | 59.5 | 0.8 | | | | | | | 61.6 | 51.7 | 62.0 | 2.5 |
| Parking lot near the Staten Island Ferry | _ | Weekday MD | | | | | | | 64.3 | | | 64.3 | 0.0 | | | | | | | 64.3 | 32.9 | 64.3 | 0.0 |
| ranking lot hear the Staten Island Ferry | Э | Weekday PM | | | | | | | 63.0 | | | 63.0 | 0.0 | | | | | | | 63.0 | 32.9 | 63.0 | 0.0 |

^{*}Existing and No Action noise levels at the closest open space location to the Wheel were estimated as the same values at Receptor Site 4.

| Receptor Location | Site | Hour | No Action Change | Existing L10 | Category (Existing L10 noise levels) | Existing L10 + NA Change = NA L10 | Category (NA L10 noise levels) | With Action Change | No Action L10 | No Action L10 + With Action Change = With Action L10 | Category (With Action L10 noise levels) |
|--------------------------------------|------|------------|---------------------|--------------|--------------------------------------|--------------------------------------|--------------------------------|-----------------------|---------------|--|--|
| | | Weekday MD | 1.4 | 71.2 | MARGINALLY UNACCEPTABLE | 72.6 | MARGINALLY UNACCEPTABLE | 1.2 | 72.6 | 73.8 | MARGINALLY UNACCEPTABLE |
| North Shore Waterfront Esplanade | 1 | Weekday PM | 1.5 | 72.6 | MARGINALLY UNACCEPTABLE | 74.1 | MARGINALLY UNACCEPTABLE | 0.8 | 74.1 | 74.9 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between | | Weekday MD | 0.9 | 73.5 | MARGINALLY UNACCEPTABLE | 74.4 | MARGINALLY UNACCEPTABLE | 0.6 | 74.4 | 75.0 | MARGINALLY UNACCEPTABLE |
| Stuyvesant Place and Nicholas Street | 2 | Weekday PM | 0.7 | 74.2 | MARGINALLY UNACCEPTABLE | 74.9 | MARGINALLY UNACCEPTABLE | 0.5 | 74.9 | 75.4 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between Nicholas | 9 | Weekday MD | 0.9 | 70.8 | MARGINALLY UNACCEPTABLE | 71.7 | MARGINALLY UNACCEPTABLE | 0.4 | 71.7 | 72.1 | MARGINALLY UNACCEPTABLE |
| Street and St. Peters Place | 3 | Weekday PM | 0.7 | 72.8 | MARGINALLY UNACCEPTABLE | 73.5 | MARGINALLY UNACCEPTABLE | 0.3 | 73.5 | 73.8 | MARGINALLY UNACCEPTABLE |
| North Shore Waterfront Esplanade | 4 | Weekday MD | 0.4 | 62.7 | NA | 63.1 | NA | 1.9 | 63.1 | 65.0 | NA |
| North Shore Waterfront Espianade | 4 | Weekday PM | 0.8 | 62.6 | NA | 63.4 | NA | 2.1 | 63.4 | 65.5 | NA |
| Closest open space location to the | | Weekday MD | 0.4 | 62.7 | NA | 63.1 | NA | 2.3 | 63.1 | 65.4 | NA |
| Wheel | A | Weekday PM | 0.8 | 62.6 | NA | 63.4 | NA | 2.5 | 63.4 | 65.9 | NA |
| Parking lot near the Staten Island | _ | Weekday MD | 0.0 | 65.9 | MARGINALLY ACCEPTABLE | 65.9 | MARGINALLY ACCEPTABLE | 0.0 | 65.9 | 65.9 | MARGINALLY ACCEPTABLE |
| Ferry | 3 | Weekday PM | 0.0 | 63.5 | ACCEPTABLE | 63.5 | ACCEPTABLE | 0.0 | 63.5 | 63.5 | ACCEPTABLE |

| | | | | | EXISTIN | IG CONDITIO | ONS | | | | NO A | CTION | | | | | | WITH A | CTION | | | | |
|--|--|-------------|--------|--------|---------|-------------|------|------|--------------------|--------|------|--------|--------|-----------|----------|---------------|-----------|---------|----------------|--------------------|----------------------|-----------------|--------|
| Receptor Location | Site | Hour | Volume | %Auto | %Medium | %Heavy | %Bus | PCEs | L _{eq(1)} | Volume | PCEs | Leq(1) | Change | P-G Autos | P-G Taxi | P-G Medium | P-G Heavy | P-G Bus | Total PCE's | Traffic Leq (1) | Equipment Leq (1) | Total Leq(1) | Change |
| Richmond Terrace between Schuyler | 4 | Saturday MD | 714 | 94.5% | 2.3% | 0.8% | 2.3% | 1466 | 67.2 | 1111 | 2281 | 69.1 | 1.9 | 951 | 66 | 2 | | 4 | 3396 | 70.8 | 29.4 | 70.8 | 1.7 |
| and Wall Streets | | Saturday PM | 1207 | 92.1% | 1.8% | 0.2% | 5.9% | 2800 | 66.4 | 1639 | 3802 | 67.7 | 1.3 | 745 | 55 | 0 | | 4 | 4674 | 68.6 | 29.4 | 68.6 | 0.9 |
| Richmond Terrace between Stuyvesant | 0 | Saturday MD | 581 | 95.6% | 0.5% | 0.0% | 3.9% | 1005 | 67.1 | 758 | 1311 | 68.3 | 1.2 | 280 | 44 | 0 | | 4 | 1707 | 69.4 | 39.8 | 69.4 | 1.1 |
| Place and Nicholas Street | 2 | Saturday PM | 939 | 98.2% | 0.1% | 0.0% | 1.7% | 1222 | 66.7 | 1128 | 1468 | 67.5 | 0.8 | 265 | 36 | 0 | | 4 | 1841 | 68.5 | 39.8 | 68.5 | 1.0 |
| Richmond Terrace between Nicholas | 0 | Saturday MD | 569 | 95.4% | 0.5% | 0.0% | 4.0% | 996 | 66.1 | 747 | 1308 | 67.3 | 1.2 | 173 | 44 | 0 | | 4 | 1597 | 68.2 | 31.1 | 68.2 | 0.9 |
| Street and St. Peters Place | 3 | Saturday PM | 879 | 98.1% | 0.1% | 0.0% | 1.8% | 1163 | 67.5 | 1068 | 1413 | 68.3 | 0.8 | 132 | 36 | 0 | | 4 | 1653 | 69.0 | 31.1 | 69.0 | 0.7 |
| North Shore Waterfront Esplanade | 4 | Saturday MD | 169 | 100.0% | 0.0% | 0.0% | 0.0% | 169 | 60.5 | 193 | 193 | 61.1 | 0.6 | 188 | 0 | 0 | | 0 | 381 | 64.1 | 40.0 | 64.1 | 3.0 |
| North Shore Waterhorit Espianade | 4 | Saturday PM | 327 | 100.0% | 0.0% | 0.0% | 0.0% | 327 | 60.3 | 368 | 368 | 60.8 | 0.5 | 152 | 0 | 0 | | 0 | 520 | 62.3 | 40.0 | 62.3 | 1.5 |
| Open Space adjacent to Wheel | A* | Saturday MD | | | | | | | 60.5 | | | 61.1 | 0.6 | | | | | | | 64.1 | 51.7 | 64.3 | 3.2 |
| Open Space adjacent to wheel | Α . | Saturday PM | | | | | | | 60.3 | | | 60.8 | 0.5 | | | | | | | 62.3 | 51.7 | 62.7 | 1.9 |
| Darking lot pear the States Island Form | _ | Saturday MD | | | | | | | 60.6 | | | 60.6 | 0.0 | | | | | | | 60.6 | 32.9 | 60.6 | 0.0 |
| Farking lot rieal trie Staten Island Ferry | Parking lot near the Staten Island Ferry 5 | Saturday PM | | | | | | | 61.4 | | | 61.4 | 0.0 | | | | | | | 61.4 | 32.9 | 61.4 | 0.0 |

^{*}Existing and No Action noise levels at the closest open space location to the Wheel were estimated as the same values at Receptor Site 4.

| Receptor Location | Site | Hour | No Action Change | Existing L10 | Category (Existing L10 noise levels) | Existing L10 + NA Change = NA L10 | Category (NA L10 noise levels) | With Action Change | No Action L10 | No Action L10 + With Action Change = With Action L10 | Category (With Action L10 noise levels) |
|--------------------------------------|------|-------------|---------------------|--------------|--------------------------------------|--------------------------------------|--------------------------------|-----------------------|---------------|--|---|
| Richmond Terrace between Schuyler | 1 | Saturday MD | 1.9 | 71.5 | MARGINALLY UNACCEPTABLE | 73.4 | MARGINALLY UNACCEPTABLE | 1.7 | 73.4 | 75.1 | MARGINALLY UNACCEPTABLE |
| and Wall Streets | · | Saturday PM | 1.3 | 70.3 | MARGINALLY UNACCEPTABLE | 71.6 | MARGINALLY UNACCEPTABLE | 0.9 | 71.6 | 72.5 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between | 2 | Saturday MD | 1.2 | 70.9 | MARGINALLY UNACCEPTABLE | 72.1 | MARGINALLY UNACCEPTABLE | 1.1 | 72.1 | 73.2 | MARGINALLY UNACCEPTABLE |
| Stuyvesant Place and Nicholas Street | - | Saturday PM | 0.8 | 71.3 | MARGINALLY UNACCEPTABLE | 72.1 | MARGINALLY UNACCEPTABLE | 1.0 | 72.1 | 73.1 | MARGINALLY UNACCEPTABLE |
| Richmond Terrace between Nicholas | 3 | Saturday MD | 1.2 | 71.5 | MARGINALLY UNACCEPTABLE | 72.7 | MARGINALLY UNACCEPTABLE | 0.9 | 72.7 | 73.6 | MARGINALLY UNACCEPTABLE |
| Street and St. Peters Place | J | Saturday PM | 0.8 | 71.3 | MARGINALLY UNACCEPTABLE | 72.1 | MARGINALLY UNACCEPTABLE | 0.7 | 72.1 | 72.8 | MARGINALLY UNACCEPTABLE |
| Bank Street near shoreline | 4 | Saturday MD | 0.6 | 63.3 | NA | 63.9 | NA | 3.0 | 63.9 | 66.9 | NA |
| Bank Street flear Shoreline | • | Saturday PM | 0.5 | 64.6 | NA | 65.1 | NA | 1.5 | 65.1 | 66.6 | NA |
| Open Space adjacent to Wheel | | Saturday MD | 0.6 | 63.3 | NA | 63.9 | NA | 3.2 | 63.9 | 67.1 | NA |
| Open Space adjacent to wheel | A . | Saturday PM | 0.5 | 64.6 | NA | 65.1 | NA | 1.9 | 65.1 | 67.0 | NA |
| Parking lot near the Staten Island | - | Saturday MD | 0.0 | 62.1 | ACCEPTABLE | 62.1 | ACCEPTABLE | 0.0 | 62.1 | 62.1 | ACCEPTABLE |
| Ferry | 5 | Saturday PM | 0.0 | 62.6 | ACCEPTABLE | 62.6 | ACCEPTABLE | 0.0 | 62.6 | 62.6 | ACCEPTABLE |

Wheel Noise Analysis Results

| | Shielded by | E | mission Noise Lev | el | | | | |
|-----------------|----------------------------|------------|---------------------|--------------|--------------------|----------------|-----------|--------|
| Equipment | Shielded by - Structure | Lp1 dBA | Component Number | Total Lp1 | Distance (feet) | Attenuation dB | Shielding | Lp dBA |
| Site 1 | | | | | | | | |
| Wheel Component | Yes | 70 | 32 | 85 | 1285 | 53 | 3 | 29.4 |
| Sum | + | | + | | 1 | | | 29.4 |
| Site 2 | | | | | <u> </u> | | l | 20.4 |
| Wheel Component | Yes | 70 | 32 | 85 | 390 | 42 | 3 | 39.8 |
| Sum | + | | + | | | | | 39.8 |
| Site 3 | • | | <u> </u> | | • | <u> </u> | • | |
| Wheel Component | Yes | 70 | 32 | 85 | 1064 | 51 | 3 | 31.1 |
| Sum | | | | | | | | 31.1 |
| Site 4 | - | | - | | • | • | • | |
| Wheel Component | No | 70 | 32 | 85 | 537 | 45 | 0 | 40.0 |
| Sum | | | + + | | | | | 40.0 |
| Site 5 | | | | | | | | |
| Wheel Component | No | 70 | 32 | 85 | 1216 | 52 | 0 | 32.9 |
| Sum | | | + | | | | | 32.9 |
| Site A | | | | | | | | |
| Wheel Component | No | 70 | 32 | 85 | 140 | 33 | 0 | 51.7 |
| Sum | | | + | | | | | 51.7 |

Note:

Sound Pressure Level Lp = Lp1 - Adiv - Shielding

Lp1 = Reference sound pressure level (70 dBA at 3 feet for each of wheel components).

Adiv = 20log(Distance/reference distance).

Shielding = 3 dBA attenuation was assumed for the wheel (30% of 32 gear boxes shielded by structures at sites 1-3).