

Westbrook Off-Site Alternative Traffic Noise Levels

| | | Number | | | | Distance | | | | | |
|---------------------------|----------------|-----------|--------|--------|--------|----------|-----------|---------|-------------|--------|-------|
| | | of Lanes | | | Design | From | | Barrier | Vehicle Mix | | |
| ROADWAY NAME | | in Each | Median | ADT | Speed | Edge of | Alpha (1) | Attn. | Medium | Heavy | dB(A) |
| Segment | Conditions | Direction | Width | Volume | (mph) | Pavemt | Factor | dB(A) | Trucks | Trucks | CNEL |
| | | | | | | | | | | | |
| Sunset west of Industrial | 2025 | 1 | 15 | 22,600 | 35 | 50 | 0 | 0 | 1.3% | 0.3% | 66.4 |
| Sunset west of Industrial | 2025 + Project | 3 | 0 | 32,400 | 35 | 50 | 0 | 0 | 1.3% | 0.3% | 67.3 |
| Foothills south of Athens | 2025 | 1 | 15 | 20,840 | 35 | 50 | 0 | 0 | 1.3% | 0.3% | 66.1 |
| Foothills south of Athens | 2025 + Project | 2 | 0 | 22,110 | 35 | 50 | 0 | 0 | 1.3% | 0.3% | 66.1 |
| | | | | | | | | | | | |

Notes:

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site, such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such, as heavily vegetated ground cover.

Assumed 24-Hour Traffic Distribution

Weighted Traffic Distribution (%)

| | Day | Evening | Night |
|--------------------|--------|---------|-------|
| Total ADT Volumes | 77.70% | 12.70% | 9.60% |
| Medium-Duty Trucks | 87.43% | 5.05% | 7.52% |
| Heavy-Duty Trucks | 89.10% | 2.84% | 8.06% |