CONSTRUCTION NOISE MONITORING SUMMARY REPORT

MAY 1 – MAY 31, 2015

VIRGINIA AVENUE TUNNEL RECONSTRUCTION PROJECT
WASHINGTON, DC

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May 2015

VIRGINIA AVENUE TUNNEL RECONSTRUCTION
Construction Noise Monitoring Summary

The Project Team has prepared this noise monitoring report as part of the ongoing efforts to comply with the commitments presented in the Virginia Avenue Tunnel Reconstruction Final Environmental Impact Statement (FEIS) and Section 4(f) Evaluation (May, 2014) and further detailed in the Record of Decision (ROD), November, 2014. The project sponsor has agreed to a number of environmental commitments as mitigation for environmental impacts that will result from the Virginia Avenue Tunnel Reconstruction Project. The commitments are divided between those related to construction of the Project and those related to the restoration of affected areas upon project completion of the Selected Alternative. These environmental commitment measures are mitigations which avoid the impact altogether by not taking a certain action or parts of an action; minimize impacts by limiting the degree or magnitude of the action and its implementation; rectify the impact by repairing, rehabilitating, or restoring the affected environment; reduce or eliminating the impact over time by preservation and maintenance operations during the life of the action; or compensate for the impact by replacing or providing substitute resources or environments. This construction noise monitoring summary report is intended to fulfill aspects of the noise monitoring commitments contained in the ROD for the Virginia Avenue Tunnel reconstruction.

The Project Team has installed perimeter noise monitoring stations adjacent to various buildings within the Project limits. These monitoring stations are intended to monitor construction noise associated with the Project. Construction noise will be monitored throughout the Project's construction. Sophisticated monitoring devices have been installed at eight locations to ensure the construction activities are performed in compliance with the permitted noise levels. The monitoring devices will record the level of the sound and automatically report the data back to the Project Engineers.

Methodology of Construction Noise Monitoring

Construction sound level data was collected starting May 1, 2015. Five fixed noise monitoring locations were measured continuously to monitor sound levels since the beginning of May, as these five monitoring locations were in close proximity to the utility relocation activities. Three additional fixed noise monitoring locations were added on May 20, 2015. Sound level data was collected every minute for the duration of the noise monitoring period. The locations of the monitoring stations are depicted in Figure 1 and the addresses described in Table 1.

Figure 1. Noise Monitoring Locations

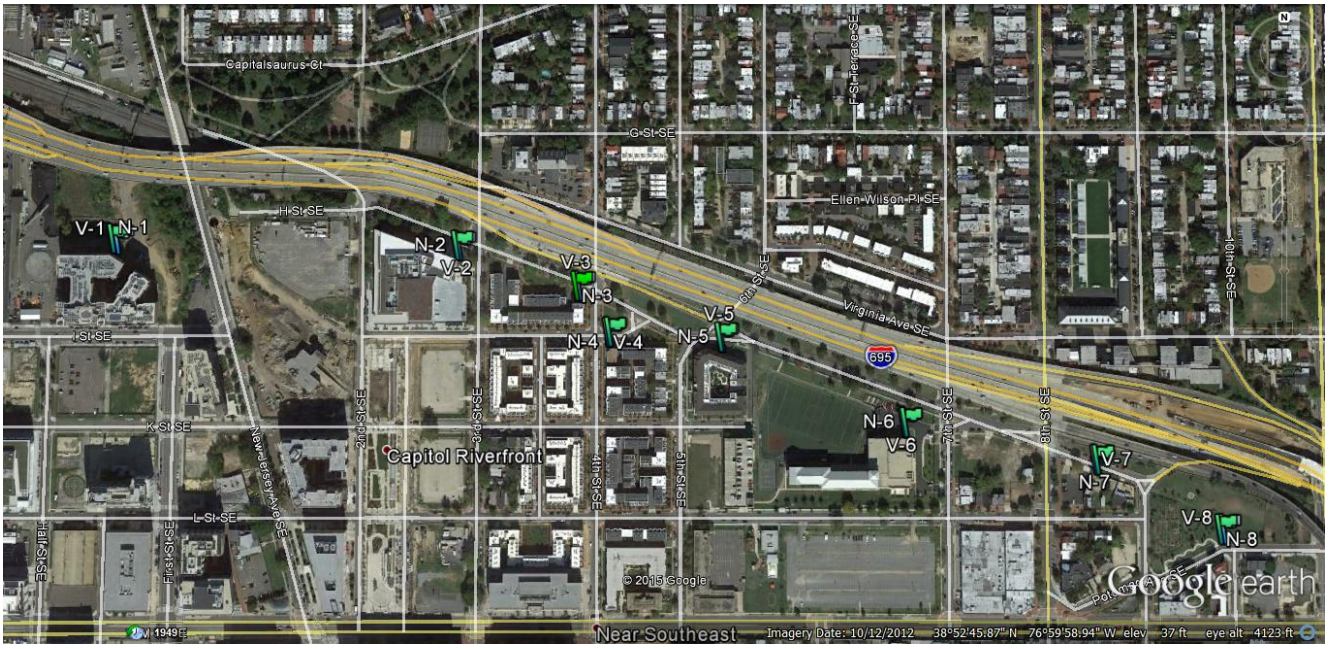

Table 1. Noise Monitoring Locations Description

Site ID	Noise Monitoring Location
N1	West of New Jersey Avenue SE
N2	Corner of 3rd Street and Virginia Avenue SE
N3	Between 3rd Street and 4th Street SE, in front of Townhomes
N4	Corner of 4th Street SE and I Street SE
N5	Corner of 5th Street and Virginia Avenue SE, in front of Capper Senior Apartments
N6	Adjacent to fence of Marine Corp Recreation Facility on 6th Street SE
N7	In front of Building on 7th Street SE
N8	Within Virginia Avenue Park

Noise Data Summary Charts

Table 2 presents the results of the sound levels measured during the month of May, 2015. The daily sound levels results are plotted in Figure 2 and show how the measured levels compare to the established noise criteria. Table 3 represents the number of 1-hr exceedance that occurred during the month, as well as the reason for the exceedance and the corrective action taken by the team.

Table 2. Construction Noise Monitoring Results – May 2015

Site ID	Noise Monitoring Location	Construction Monitoring		
		30 Day Leq dB(A)	30 Day Criteria dB(A)	Exceedance (Yes/No)
N1[a]	West of New Jersey Avenue SE	66	80	No
N2[a]	Corner of 3rd Street and Virginia Avenue SE	69	80	No
N3	Between 3rd Street and 4th Street SE, in front of Townhomes	67	80	No
N4	Corner of 4th Street and I Street SE	67	80	No
N5	Corner of 5th Street and Virginia Avenue SE, in front of Capper Senior Apartments	67	80	No
N6	Adjacent to fence of Maine Corp Recreation Facility on 6th Street SE	62	80	No
N7	In front of Building on 7th Street SE	61	80	No
N8[a]	Within Virginia Avenue Park	61	80	No

a Three units were added starting the week of May 20, 2015

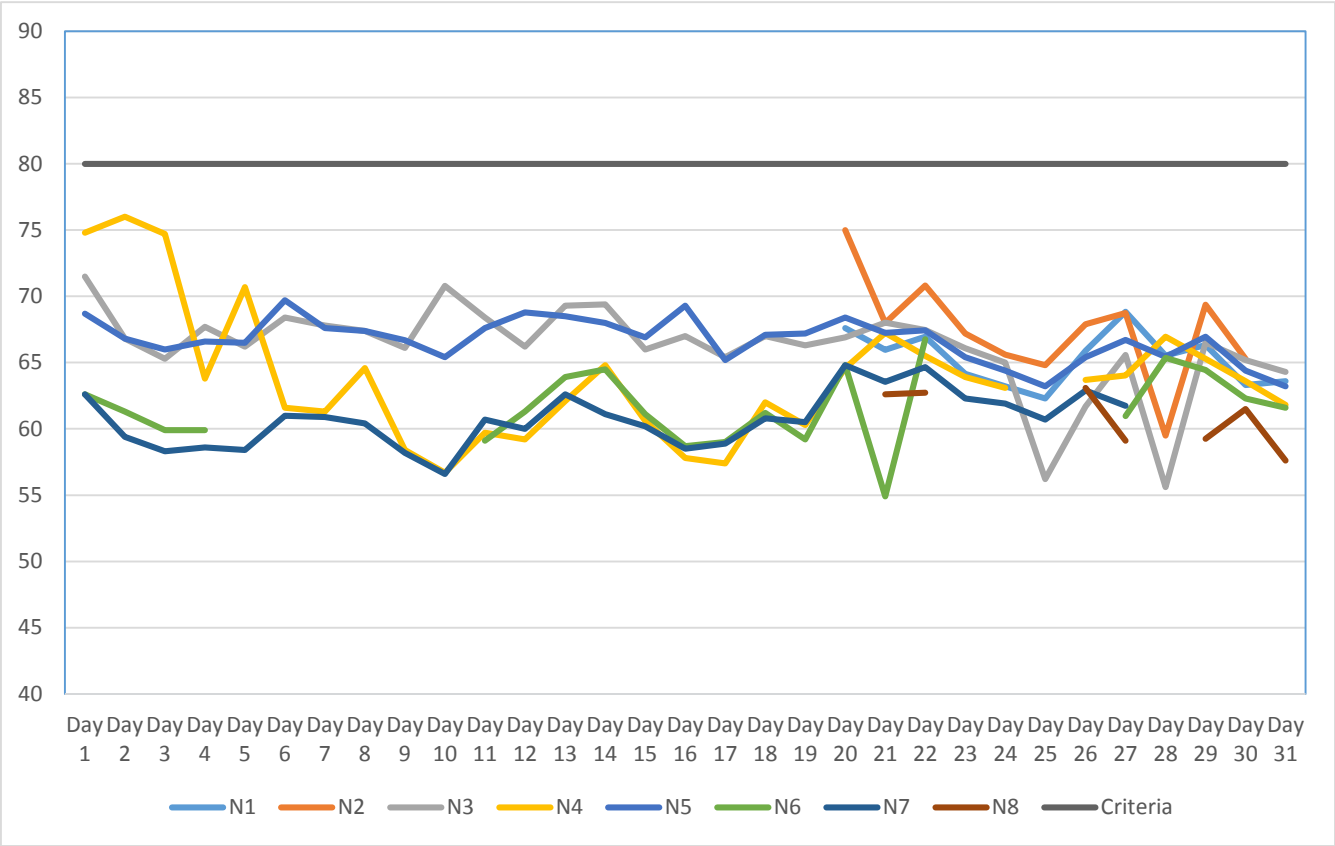

Figure 2. Summary of Daily Construction Noise Monitoring Data dB(A) – May 2015

Table 3. Construction Noise Monitoring Results (Number of 1-hour Exceedance) – May 2015

Site ID	Noise Monitoring Location	Number of 1-hour Exceedance	Day of the Month	Time	Reason	Action Taken
N1	West of New Jersey Avenue SE	0	N/A	N/A	N/A	N/A
N2	Corner of 3rd Street and Virginia Avenue SE	3	May 20 (Twice) May 22	11 am – 12 pm 1 pm – 2 pm 10 am – 11 am	Tree Removal Jack Hammer	Engineering Control will be in place for future similar operations
N3	Between 3rd Street and 4th Street SE, in front of Townhomes	1	May 10	8 pm – 9 pm	Children Yelling	Microphone heights have been raised
N4	Corner of 4th Street and I Street SE	5	May 1 May 2 May 3 (Twice) May 5	6 pm - 7 pm 1 pm - 2 pm 2 pm - 3 pm 7 pm - 8 pm 7 pm - 8 pm	Children Yelling	Microphone heights have been raised
N5	Corner of 5th Street and Virginia Avenue SE, in front of Capper Senior Apartments	0	N/A	N/A	N/A	N/A
N6	Adjacent to fence of Marine Corp Recreation Facility on 6th Street SE	0	N/A	N/A	N/A	N/A
N7	In front of Building on 7th Street SE	0	N/A	N/A	N/A	N/A
N8	Within Virginia Avenue Park	0	N/A	N/A	N/A	N/A