

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, December 16, 2019** to **Sunday, December 22, 2019**

PUBLISHED DECEMBER 24, 2019

Monitoring times: Weekdays, 10 p.m. to 7 a.m.; weekends, 10 p.m. to 9 a.m.

How to use this report: This document summarizes the weekly nighttime noise data for the SR 520 Montlake Project. In it, you'll find:

- Page 1 - Summary of noise levels recorded above the limits allowed under the Major Public Project Construction Noise Variance, for this week and throughout the project. This includes non-project-related noise exceedances
- Page 2 - Map of the project limits and locations of the seven stationary monitor locations
- Pages 3 – 9 - Night-by-night noise recordings for each of the project noise monitors, along with a description of the work that night, comments received from the public regarding Project noise, and explanations for any noise limit exceedances and actions taken in response
- Page 10 - Log of public comments regarding nighttime noise issues and resolutions for the week

WSDOT is sharing this information as per the terms of the Major Public Project Construction Noise Variance (Permit #3030792).

MPPCNV start date: **Friday, August 16, 2019**

MPPCNV days to date: **129**

WEEKLY TOTALS

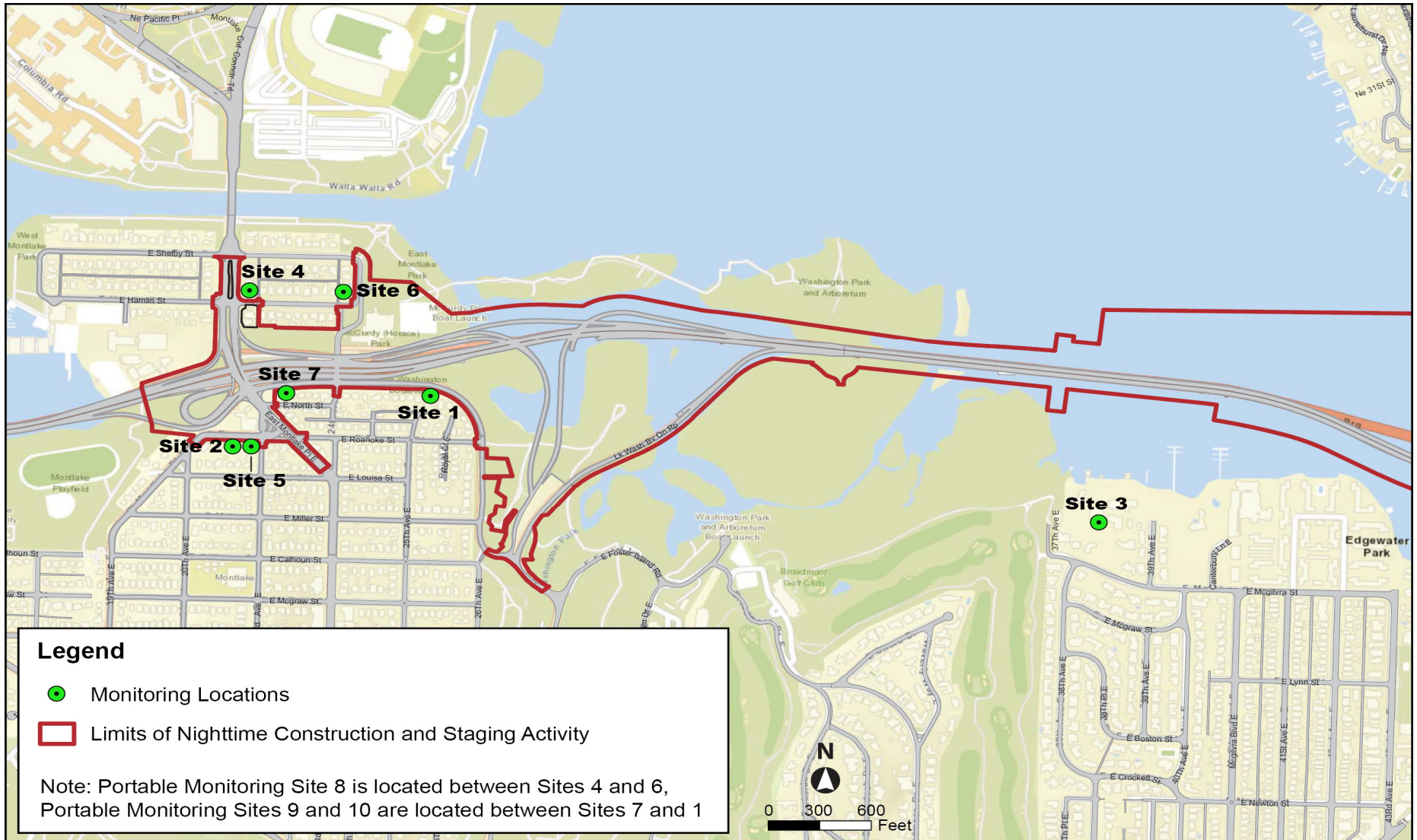
Nights worked this week (under the MPPCNV)	5
Project related non-compliance this week	4
Nighttime noise issue comments to the project	1
Non-project-related noise exceedances this week	49

PROJECT TOTALS TO DATE

Total Nights Worked (under the MPPCNV)	46
Total Project related non-compliance	12
Total noise issue comments to the project	21
Total non-project related exceedances	739

Noise Monitoring Locations: the map below shows the work limits of the SR 520 Montlake Project and the locations of the seven stationary noise monitoring sites

EXHIBIT 5. CONSTRUCTION AREA AND NOISE MEASUREMENT LOCATIONS



SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Monday, December 16, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	57.8	55.5	54.0	50.3	51.7	52.7	54.4	58.6	61.8	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	65.2	60.8	60.5	56.5	57.2	57.0	60.3	62.5	65.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	49.7	47.9	46.3	45.9	47.3	46.3	47.1	48.1	51.4	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	67.6	64.8	66.8	60.4	60.1	59.7	64.6	67.9	70.3	N/A	N/A
Site 5 - 2565 22nd Av E.	65	61.4	58.2	57.1	53.9	54.6	54.0	57.3	59.3	63.0	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	57.0	56.1	54.3	51.4	51.5	52.3	54.3	56.3	59.1	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	58.2	56.2	56.0	53.0	52.3	52.2	54.5	57.8	60.8	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	57.9	56.0	56.3	52.8	52.3	52.0	54.3	56.3	60.1	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	66.1	63.0	61.2	56.9	57.2	59.5	60.6	65.5	69.0	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	62.9	61.1	61.3	58.0	56.4	56.1	58.7	62.4	65.5	N/A	N/A
*Hourly-Average Leq (dBA)												

Notes recorded by the on-site Independent Noise Monitor

Work:

Contractor worked between 10pm and 5:20am to:
- excavate the road and embankment for north work access
- abandon existing drainage structure
- clear and grub vegetation for north pit access.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None

Legend

Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance, project related

Blue = Noise level exceedance, not project related

~ = No Data Available

= No contract work . Portable monitors are not being used (not needed).

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Tuesday, December 17, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	59.2	54.9	55.2	57.2	57.8	53.2	54.4	58.1	61.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	63.1	60.2	57.8	58.4	56.0	56.8	59.7	63.2	66.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	48.5	46.8	46.0	46.1	46.6	46.2	47.2	49.8	52.6	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	67.0	64.9	62.3	67.0	59.9	59.7	64.5	68.0	70.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65	60.8	57.9	55.5	56.5	54.5	54.6	57.0	60.4	63.6	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	58.0	53.2	51.3	53.4	52.0	51.1	54.4	56.2	59.0	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	57.9	54.3	52.7	54.3	54.2	52.7	55.3	57.4	60.1	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	58.0	54.6	54.4	53.4	52.7	53.1	56.3	57.1	59.3	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	63.9	59.1	58.5	62.3	68.2	58.3	59.4	65.1	68.7	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	62.4	58.8	57.6	58.7	59.8	58.1	60.5	62.3	65.2	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Contractor worked between 10pm and 5:15am to:
- excavate road and embankment for north work access
- abandon existing drainage structure
- clear and grub vegetation for north pit access
- stripe the roadway
- install barrier and mountable curb

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #9 on E Lake Washington Blvd, 2am-3am alert is project related. Exceedance was caused by the contractor truck driving by the monitor with its tailgate banging.

Non-Compliance:

- The contractor had one equipment with a tonal back-up alarm, equipment was noticed near the end of the shift.
- Truck tailgate banging.

Legend

Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance, project related

Blue = Noise level exceedance, not project related

~ = No Data Available

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Wednesday, December 18, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	58.6	57.1	54.4	52.7	56.2	53.5	65.0	66.2	60.2	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	62.8	62.6	60.5	59.8	56.8	55.5	60.8	61.4	64.6	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	52.3	53.7	53.0	52.1	49.2	47.4	46.9	48.8	50.3	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	69.7	72.8	65.4	62.4	60.8	62.2	66.3	68.7	70.8	N/A	N/A
Site 5 - 2565 22nd Av E.	65	60.7	60.7	58.3	57.8	53.9	52.7	57.1	58.3	62.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	57.6	55.4	53.8	51.2	51.8	51.1	53.2	56.0	59.2	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	58.5	57.5	54.6	53.0	52.8	50.7	53.1	57.0	59.7	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	57.8	57.8	54.5	52.7	50.8	50.0	52.0	55.8	59.0	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	66.3	63.7	59.5	58.8	61.2	61.7	62.3	64.8	67.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	65.5	63.5	60.5	59.5	59.4	57.9	59.3	63.5	66.8	N/A	N/A
*Hourly-Average Leq (dBA)												

Notes recorded by the on-site Independent Noise Monitor

Work:

Contractor worked between 10pm and 7am to:

- excavate road and embankment for north work access
- install temporary barrier on Westbound SR520 & New Eastbound SR520 On-Ramp.

Note: Portable monitor site #10 was moved closer to the road (E Lake Washington Blvd).

Public Comments:

4:21am - December 19th - a call to the hotline was received from a resident near site #1 to complaint of noise from work on the new temporary on-ramp. He said it sounded like trucks revving their engines. Resident did not need a follow up. **See Public Notice Log for additional details.**

Exceedances:

Not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

Hotline complaint initiated work activity investigation. The INM and Kaitlin Soukup with Graham/PBS took readings near the work activity (work activity near site #1). The reading findings were exceeding the allocated noise limit; unmitigated loud noise.

Legend

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~ = No Data Available

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Thursday, December 19, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	60.6	57.7	54.9	53.1	53.0	51.7	54.0	57.9	61.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	67.0	63.0	60.7	58.6	56.9	57.4	60.2	63.4	69.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	58.2	52.4	50.8	49.6	48.8	50.3	51.4	54.5	57.0	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	71.6	68.7	66.4	64.4	63.3	63.0	67.1	70.7	73.9	N/A	N/A
Site 5 - 2565 22nd Av E.	65	65.9	61.8	59.2	56.8	55.2	56.4	58.6	61.3	67.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	59.5	58.3	55.5	53.3	52.5	52.0	53.0	56.1	58.6	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	61.5	57.5	54.9	53.2	52.0	51.2	54.0	57.9	61.8	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	61.7	58.9	55.4	52.5	52.5	51.3	54.1	57.7	60.8	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	67.1	64.4	61.8	60.3	58.5	54.5	58.9	64.6	69.4	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	66.8	63.0	60.5	59.3	57.2	55.0	58.3	64.3	69.2	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Contractor worked between 10pm and 12:25am to:
- install new signs on the new Eastbound SR520 on-ramp
- move barriers in the median of SR520 West of Montlake PI E.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None

Legend

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Friday, December 20, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	59.9	60.0	57.6	56.9	56.7	53.6	54.8	56.2	56.8	59.1	62.3
Site 2 - 2015 E. Roanoke St	78	64.1	63.5	62.0	60.9	60.3	60.3	59.2	61.0	62.7	63.4	65.4
Site 3 - 3810 E. McGilvra St	62	52.9	53.8	53.3	53.1	53.1	55.3	53.4	53.7	52.9	54.1	56.2
Site 4 - 2800 Montlake Blvd E	66	70.5	69.6	67.4	69.7	63.9	62.0	63.4	66.8	69.8	69.5	71.5
Site 5 - 2565 22nd Av E.	65	62.1	61.6	59.8	58.7	58.7	58.6	57.6	59.1	60.1	60.7	63.3
Site 6 - 2160 E. Hamlin St	63	59.7	58.0	54.8	54.4	52.5	49.7	50.1	53.4	52.6	53.4	57.9
Site 7 - 2209 E. Lake Wa Blvd	66	59.9	58.9	56.3	55.1	53.9	52.4	52.2	54.7	56.6	58.1	61.2
Site 8 - Portable Between Sites 4 and 6	63	42.5	32.7	34.7	33.0	39.4	39.0	38.4	33.8	43.3	44.1	34.2
Site 9 - Portable Between Sites 1 and 7	66	43.0	33.1	35.6	33.9	40.7	39.4	39.0	34.1	44.1	45.2	34.5
Site 10 - Portable Between Sites 1 and 7	66	43.5	34.6	42.9	43.6	49.3	48.0	39.4	34.6	44.6	45.2	35.0

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Work started at 6am to:
- reinforce and install for pier 2 footing
- work on superstructure for trestle

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None

Legend

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N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance, project related

Blue = Noise level exceedance, not project related

~ = No Data Available

SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Saturday, December 21, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	58.4	57.0	56.1	55.7	53.5	52.5	51.6	52.0	55.4	55.4	58.9
Site 2 - 2015 E. Roanoke St	78	62.2	61.6	60.0	60.0	57.2	56.4	55.8	56.1	60.0	60.5	62.9
Site 3 - 3810 E. McGilvra St	62	48.9	47.9	47.5	47.0	46.2	46.5	45.5	45.9	48.3	47.3	50.1
Site 4 - 2800 Montlake Blvd E	66	67.9	66.3	65.1	64.8	61.7	61.3	62.2	62.4	66.5	66.2	67.7
Site 5 - 2565 22nd Av E.	65	60.2	59.3	57.7	57.2	54.9	54.3	52.8	53.6	57.8	58.2	60.9
Site 6 - 2160 E. Hamlin St	63	58.5	55.5	54.3	55.0	54.7	52.7	50.1	49.7	52.7	52.4	55.6
Site 7 - 2209 E. Lake Wa Blvd	66	58.0	56.5	55.6	55.3	53.0	51.4	49.8	51.0	54.6	54.8	57.9
Site 8 - Portable Between Sites 4 and 6	63	40.6	32.1	32.1	32.4	32.7	32.5	32.4	32.3	32.6	33.9	32.8
Site 9 - Portable Between Sites 1 and 7	66	41.2	31.9	32.1	32.6	32.8	32.6	32.5	32.4	32.4	33.8	32.5
Site 10 - Portable Between Sites 1 and 7	66	41.6	32.5	32.6	33.1	33.3	33.1	33.1	32.9	33.0	34.2	33.1
*Hourly-Average Leq (dBA)												
Notes recorded by the on-site Independent Noise Monitor												
Work: No night time construction work performed.												
Public Comments: No public comments received related to nighttime noise.												
Exceedances: Not project related. Exceedances are caused by public traffic driving by the noise monitors.												
Non-Compliance: None												

Legend

Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance, project related

Blue = Noise level exceedance, not project related

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT

Monday, December 16, 2019 to Sunday, December 22, 2019 10 pm to 7 am (weekdays) / 9am (weekends)

The table below includes data gathered from noise monitoring equipment located at seven stationary and three portable locations throughout the Montlake Project are:

Sunday, December 22, 2019												
Site	Site limit*	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
Site 1 - 2449 E. Lk WA Blvd	67	57.8	55.1	53.0	52.1	51.1	53.5	56.1	56.6	59.8	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	62.6	59.5	58.3	56.6	54.8	59.5	61.8	62.4	64.3	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	49.1	48.1	47.1	46.3	47.8	53.3	54.9	51.6	51.0	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	67.7	65.7	65.0	62.0	61.0	63.9	66.7	69.8	71.5	N/A	N/A
Site 5 - 2565 22nd Av E.	65	60.0	56.6	55.3	53.9	53.3	57.8	59.7	59.5	61.4	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	56.8	54.2	49.9	50.3	50.2	49.9	54.0	54.8	57.0	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	57.3	54.7	52.4	51.4	50.1	53.8	55.6	57.1	60.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	32.7	32.6	33.9	32.5	32.7	34.0	32.4	38.7	61.4	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	32.4	32.4	35.2	32.3	32.5	34.0	32.2	38.4	61.7	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	33.0	33.0	35.5	32.9	33.2	34.4	32.7	39.4	63.3	N/A	N/A
*Hourly-Average Leq (dBA)												
Notes recorded by the on-site Independent Noise Monitor												
Work: No night time construction work performed.												
Public Comments: No public comments received related to nighttime noise.												
Exceedances: Not project related. Exceedances are caused by public traffic driving by the noise monitors.												
Non-Compliance: None												

Legend

Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.

N/A = Time Period not applicable to MPPCNV

Red = Noise Level Exceedance, project related

Blue = Noise level exceedance, not project related

~ = No Data Available

10 p.m. to 7 a.m. (weekdays)/ 9a.m. (weekends)

[illegible]