

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, September 30, 2019** to **Sunday, October 6, 2019**

PUBLISHED OCTOBER 9, 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: **52**

WEEKLY TOTALS

Nights worked this week (under the MPPCNV)	2
Project related exceedances this week	0
Nighttime noise issue comments to the project	2
Non-project-related noise exceedances this week	40

PROJECT TOTALS TO DATE

Total Nights Worked (under the MPPCNV)	14
Total Project related exceedances	8
Total noise issue comments to the project	7
Total non-project related exceedances	244

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, September 30, 2019 to Sunday, October 6, 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 area

Monday, September 30, 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	67dB	62.8	60.4	58.0	55.9	55.3	54.5	58.0	63.3	67.4	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	63.4	61.6	58.9	57.5	56.9	56.5	60.5	64.1	66.9	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	55.4	52.7	50.9	49.1	48.1	48.2	50.7	54.9	58.7	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.6	64.1	60.8	60.2	58.9	59.9	64.4	67.7	69.9	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	61.4	59.9	57.5	56.3	55.8	55.4	58.4	61.8	64.6	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	58.8	57.0	53.5	52.1	51.7	51.3	55.1	58.2	60.7	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	59.0	56.7	54.3	52.1	51.7	50.5	55.1	59.8	63.1	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A

*1-Hour Leq

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.

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

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, September 30, 2019 to Sunday, October 6, 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 area

Tuesday, October 1, 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	67dB	64.7	61.4	58.8	54.9	53.6	54.1	58.3	63.0	67.4	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	64.4	61.8	59.4	56.7	55.2	56.9	59.5	63.5	66.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	57.1	53.3	51.5	48.9	48.2	48.1	50.7	54.6	58.5	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	66.0	63.7	61.1	59.8	57.6	60.6	64.4	67.3	70.0	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	62.1	59.5	56.9	54.1	52.9	53.9	56.5	60.8	64.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	61.2	57.2	54.6	51.9	50.1	52.0	55.4	58.5	61.1	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	60.8	57.6	55.0	51.6	50.2	51.5	55.0	59.3	63.0	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	#	#	#	#	#	#	#	#	#	N/A	N/A

*1-Hour Leq

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.

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

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, September 30, 2019 to Sunday, October 6, 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 area

Wednesday, October 2, 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	67dB	63.2	61.0	58.5	57.6	58.9	56.5	57.1	62.6	66.2	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	63.1	61.0	59.1	56.3	56.4	56.9	59.4	63.2	65	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	55.0	52.7	49.8	47.9	48.8	49.3	49.3	52.0	53.9	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.9	64.2	67.3	59.9	57.8	59.5	65.2	68.5	70.6	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.5	58.6	56.4	53.6	54.2	53.9	57.1	60.2	62.4	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	56.2	55.0	53.3	51.0	53.8	53.1	54.0	57.3	61.8	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	58.7	56.9	55.0	51.8	58.2	56.2	54.8	58.8	61.7	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	58.3	57.1	55.4	51.1	54.2	52.4	53.9	58.6	62.1	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	63.7	62.1	59.7	58.5	63.5	62.7	59.0	63.9	67.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	65.9	63.2	60.8	60.1	61.3	58.6	59.8	65.4	68.8	N/A	N/A
	*1-Hour Leq											

Notes recorded by the on-site Independent Noise Monitor

Work:

- * Remove existing 54" barrier on.
- * Install type 2 barrier.

Contractor start work at 10pm and finished at 5am.

Public Comments:

2:45am Oct. 2 a call to the hotline was received about the noise from Wednesday night's work.
 11:45a Oct. 2 a call to the hotline was received following up with the email received earlier in the morning about the vibration and noise from Wednesday night's work.
 See Public Notice Log for additional details.

Exceedances:

Site #4: Exceedances where public traffic related. No construction work near that location.
 Site #9 & #10: Exceedance where public traffic related. No construction work after 5am.

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
- 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, September 30, 2019 to Sunday, October 6, 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 area

Thursday, October 3, 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	67dB	64.8	61.0	58.5	55.0	54.1	52.9	55.3	61.4	65.5	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	64.2	60.2	60.4	57.6	56.0	55.5	58.6	62.0	64.6	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	53.3	49.3	49.3	42.9	43.4	41.5	45.0	49.5	52.9	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	67.4	64.5	62.9	59.3	58.9	59.4	65.6	69.3	70.3	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.7	58.5	57.8	56.9	55.1	54.6	57.4	60.2	62.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	57.0	54.9	53.6	49.6	49.5	47.7	51.5	57.1	59.9	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	59.8	58.6	54.7	51.2	50.6	50.0	52.9	58.1	61.4	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	58.8	56.4	55.6	50.8	51.3	48.9	52.5	57.9	61.0	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	64.8	65.6	58.3	54.5	53.9	52.6	56.0	64.5	66.2	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	67.2	63.5	60.7	57.0	56.4	55.0	58.2	65.2	68.5	N/A	N/A

*1-Hour Leq

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.

Legend

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
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Monday, September 30, 2019 to Sunday, October 6, 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 area

Friday, October 4, 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	67dB	64.50	63.30	61.60	59.80	58.50	55.60	53.70	55.50	58.80	63.10	65.10
Site 2 - 2015 E. Roanoke St	78dB	63.70	62.80	69.60	61.60	64.30	55.70	55.90	57.50	60.00	63.30	65.30
Site 3 - 3810 E. McGilvra St	62dB	52.60	51.30	49.60	47.60	46.20	43.80	42.40	44.20	47.50	51.10	54.20
Site 4 - 2800 Montlake Blvd E	66dB	67.10	65.70	64.10	68.70	68.30	58.50	59.80	62.70	66.50	67.40	68.80
Site 5 - 2565 22nd Av E.	65dB	61.20	60.10	68.80	58.80	61.50	52.60	53.40	54.90	57.40	60.10	62.80
Site 6 - 2160 E. Hamlin St	63dB	57.70	57.50	55.60	52.90	50.90	47.60	47.00	49.30	51.80	55.00	58.30
Site 7 - 2209 E. Lake Wa Blvd	66dB	60.30	59.00	58.70	56.00	56.70	51.10	50.50	51.90	55.00	58.30	60.50
Site 8 - Portable Between Sites 4 and 6	63dB	59.60	59.00	57.30	55.30	54.90	50.00	49.70	52.70	54.30	57.10	59.70
Site 9 - Portable Between Sites 1 and 7	66dB	65.10	63.60	63.10	60.80	59.60	55.10	53.90	55.70	59.30	63.30	65.60
Site 10 - Portable Between Sites 1 and 7	66dB	67.30	65.90	63.80	61.80	60.70	57.60	56.30	58.30	62.00	66.60	68.40

*1-Hour Leq

Notes recorded by the on-site Independent Noise Monitor

Work:

- Installing drainage structures. (Start work at 8am)
- Removing tree. (Start work at 8:30am)

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site #10: 8:00am Red alert action level (Red) 67db, at Portable unit #10 located near 2441 E Lk. Wa. Blvd. The allowable limit is 66db. After taking noise reading with handheld monitor at the same location, reading was 68.5db. The noise monitor is set on the side walk next to the roadway. All noise coming from traffic on E Lk. WA Blvd and EB SR520. (Not work related. No contract work started before 8am)

Site #4: Exceedances where public traffic related. No construction work near that location.

Site #5: Exceedances where public traffic related. No construction work near that location.

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
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Monday, September 30, 2019 to Sunday, October 6, 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 area

Saturday, October 5, 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	67dB	66	64.5	62.4	60.9	59.3	57.6	55	55.7	60.9	61.8	64.0
Site 2 - 2015 E. Roanoke St	78dB	65.3	63.8	62.2	61.3	58.4	57.9	56.2	59.8	61.5	62.4	63.6
Site 3 - 3810 E. McGilvra St	62dB	57.8	56.3	54.1	51.4	49.4	48.4	45.6	46.8	52.7	53.4	55
Site 4 - 2800 Montlake Blvd E	66dB	66.9	65.9	63.8	61.4	59.6	60.9	58.5	63.1	66.1	66.3	68.2
Site 5 - 2565 22nd Av E.	65dB	63	61.3	59.8	57.9	55.9	55.7	53.8	57.5	59.2	59.8	61.2
Site 6 - 2160 E. Hamlin St	63dB	60	58.3	57.2	54.4	51.5	51.6	49.8	51.5	55.9	56.2	55.3
Site 7 - 2209 E. Lake Wa Blvd	66dB	61.5	60.1	58.3	56.9	53.8	53.3	51.3	52.9	57.1	58	59.4
Site 8 - Portable Between Sites 4 and 6	63dB	61	60	58.4	56	53.8	53.6	51.7	53.3	57.7	58.1	58.2
Site 9 - Portable Between Sites 1 and 7	66dB	66.3	64.8	62.8	61.4	58.5	58.5	56.4	57.2	61.8	62.5	64.5
Site 10 - Portable Between Sites 1 and 7	66dB	68.2	66.6	64.6	63.2	61.6	61	58	58.7	63.2	64.7	67.8

*1-Hour Leq

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.

Legend

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

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

Monday, September 30, 2019 to Sunday, October 6, 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 area

Sunday, October 6, 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	67dB	63	60.0	57.6	54.7	53.0	52.1	57.2	61.8	65.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78dB	63.1	60.7	62.9	56.2	54.1	55.9	59.5	61.9	64.5	N/A	N/A
Site 3 - 3810 E. McGilvra St	62dB	54.3	51.7	48.9	44.8	41.1	41.0	45.9	49.4	53.6	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66dB	65.2	63.8	65.2	59.6	56.7	60.0	63.5	68.0	68.6	N/A	N/A
Site 5 - 2565 22nd Av E.	65dB	60.6	58.0	57.7	54.0	51.6	51.7	57.5	59.0	61.8	N/A	N/A
Site 6 - 2160 E. Hamlin St	63dB	56.6	55.1	55.0	50.4	47.5	46.7	53.1	55.5	59.8	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66dB	58.2	56.0	54.9	51.0	49.9	49.4	53.4	57.5	61.3	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63dB	57.6	55.7	55.2	51.3	48.9	47.8	53.7	56.4	60.3	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66dB	62.4	59.7	58.2	54.9	57.4	56.0	58.6	64.1	66.1	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66dB	65.1	61.9	59.5	56.4	56.4	55.4	61.9	64.8	68.7	N/A	N/A

*1-Hour Leq

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.

Legend

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

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Red = Noise Level Exceedance

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