

SR 520 Montlake Project

Noise Monitoring Weekly Report Summary for **Monday, October 5, 2020** to **Sunday, October 11, 2020**

PUBLISHED OCTOBER 14, 2020

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: 423

WEEKLY TOTALS	
Nights worked this week (under the MPPCNV)	5
Project related non-compliance this week	1
Nighttime noise issue comments to the project	0
Non-project-related noise exceedances this week	21

PROJECT TOTALS TO DATE	
Total Nights Worked (under the MPPCNV)	116
Total Project related non-compliance	43
Total noise issue comments to the project	44
Total non-project related exceedances	1652

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, October 5, 2020 to Sunday, October 11, 2020 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, October 5, 2020												
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	53.9	52.0	49.7	48.8	49.1	49.5	53.6	56.3	59.4	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	60.5	58.7	57.7	55.1	53.9	54.4	56.5	60.5	62.6	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	46.6	46.5	46.2	46.2	46.1	46.2	46.7	48.8	52.4	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	65.8	62.4	59.7	57.9	57.2	58.4	62.4	67.8	68.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65	58.5	56.7	56.6	54.1	52.9	52.7	54.5	58.3	61.1	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	49.0	46.7	44.9	45.4	41.8	45.1	48.7	52.1	52.7	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	51.8	50.2	47.8	46.9	45.8	46.4	51.0	54.0	57.1	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	52.2	50.6	49.3	49.2	48.1	49.1	50.9	54.2	54.0	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	57.9	55.3	52.8	52.1	52.5	51.5	59.5	61.1	64.2	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	60.0	57.7	53.7	52.8	55.1	53.4	60.2	62.3	66.0	N/A	N/A
*Hourly-Average Leq (dBA)												
Notes recorded by the on-site Independent Noise Monitor												
Work: Design-Builder worked between 3:00 a.m. and 7:00 a.m. - pile delivery and set up for day work. Public Comments: No public comments received related to nighttime noise. Exceedances: Site 4 and 10 are 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, October 5, 2020 to Sunday, October 11, 2020 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 6, 2020												
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	54.3	53.1	50.5	51.2	49.9	51.3	58.8	57.4	59.2	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	58.7	57.6	56.2	55.1	54.1	55.4	58.3	61.2	61.6	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	47.1	46.9	46.4	46.3	46.4	46.7	46.8	48.6	48.8	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	63.5	61.6	59.6	59.5	58.9	58.8	63.5	67.8	69.4	N/A	N/A
Site 5 - 2565 22nd Av E.	65	57.0	55.6	53.9	53.5	52.3	53.8	56.4	59.5	59.9	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	49.5	50.6	49.3	49.5	47.7	50.0	51.2	54.9	53.7	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	51.8	51.6	49.5	48.8	47.8	49.5	52.6	55.3	56.7	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	52.9	53.7	52.2	51.9	52.1	52.5	54.3	56.9	55.9	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	58.3	56.9	55.6	56.9	53.3	54.6	61.8	62.7	65.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	60.3	57.8	55.2	59.3	53.7	56.0	64.3	63.1	65.8	N/A	N/A
*Hourly-Average Leq (dBA)												
Notes recorded by the on-site Independent Noise Monitor												
Work: Design-Builder worked between 3:00 a.m. and 7:00 a.m. - pile delivery and set up for day work. Public Comments: No public comments received related to nighttime noise. Exceedances: Site 4 are 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, October 5, 2020 to Sunday, October 11, 2020 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 7, 2020												
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	56.0	53.5	51.3	47.9	52.0	51.7	52.1	55.3	57.9	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	59.8	62.6	56.2	53.9	53.8	52.7	56.8	60.0	61.1	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	48.2	46.8	46.0	45.9	46.0	47.5	46.3	48.0	51.3	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	63.4	63.2	59.2	56.9	56.1	57.2	67.5	67.2	68.8	N/A	N/A
Site 5 - 2565 22nd Av E.	65	58.8	61.7	53.9	51.9	51.3	50.6	54.5	58.1	59.3	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	56.2	52.5	51.0	47.5	43.6	46.4	48.4	51.7	54.0	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	54.8	53.7	51.3	48.2	49.1	47.5	49.8	53.2	55.4	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	58.6	56.2	55.6	52.3	50.5	51.6	52.9	54.6	55.5	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	60.6	60.0	56.7	53.2	59.9	56.7	60.0	61.3	64.3	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	61.2	58.1	56.8	52.8	58.8	58.8	56.8	62.0	65.5	N/A	N/A
*Hourly-Average Leq (dBA)												

Notes recorded by the on-site Independent Noise Monitor

Work:

Design-Builder worked between 10:00 p.m. and 7:00 a.m. to set two 8 foot sections of blow off structure at the north pit, crane delivery at the north pit, and pile deliveries.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 4 are 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

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SR 520 Montlake Project
Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, October 5, 2020 to Sunday, October 11, 2020 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 8, 2020												
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	53.8	52.7	48.9	49.8	46.3	45.6	50.4	56.2	58.3	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	59.0	58.9	55.0	55.3	51.8	52.7	56.9	61.0	62.1	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	46.9	46.2	47.0	46.1	45.9	45.7	47.2	47.8	49.2	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	64.5	62.0	59.2	57.6	58.5	57.7	61.9	67.0	68.9	N/A	N/A
Site 5 - 2565 22nd Av E.	65	57.3	55.7	54.9	54.3	49.8	50.7	55.4	59.8	60.9	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	52.7	51.1	47.3	49.4	45.6	44.0	50.4	53.6	56.4	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	52.5	51.4	48.5	49.2	45.7	47.8	50.4	54.6	55.9	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	56.7	53.0	51.7	52.9	51.0	52.5	54.5	56.1	56.5	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	58.2	57.5	53.4	54.2	51.5	52.9	55.4	64.3	62.9	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	59.7	58.9	54.2	54.2	51.9	49.8	55.0	63.3	65.2	N/A	N/A

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Design-Builder worked between 12:00 a.m. and 7:00 a.m. to deliver the drill rig and drill casings at the north pit.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 4 are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

- 12:48am a crane was observed operating with a dual tonal backup alarm. Gary Stensland with PBS stopped the crane from operating until they disabled the dual tonal alarm, the dual tonal alarm was disabled within 2 minutes.

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Monday, October 5, 2020 to Sunday, October 11, 2020 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 9, 2020												
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	59.7	57.2	53.1	50.8	52.7	54.4	54.7	54.6	55.5	57.5	59.9
Site 2 - 2015 E. Roanoke St	78	66.0	64.0	58.5	56.1	57.9	61.1	60.8	60.8	61.4	60.5	62.7
Site 3 - 3810 E. McGilvra St	62	59.1	56.4	54.0	48.9	50.7	53.4	54.3	53.3	53.1	51.5	50.9
Site 4 - 2800 Montlake Blvd E	66	69.0	66.9	63.5	60.0	60.6	60.8	61.5	64.7	68.4	68.0	68.1
Site 5 - 2565 22nd Av E.	65	65.7	63.8	57.9	56.0	58.7	61.9	61.1	60.8	60.7	59.3	61.6
Site 6 - 2160 E. Hamlin St	63	57.8	56.4	54.8	52.2	52.7	53.5	54.2	53.3	56.2	61.5	61.3
Site 7 - 2209 E. Lake Wa Blvd	66	59.2	56.8	52.5	50.8	52.3	54.4	54.1	53.7	55.0	56.1	58.3
Site 8 - Portable Between Sites 4 and 6	63	58.6	57.0	54.9	53.5	54.1	54.2	55.8	54.9	56.6	59.9	62.5
Site 9 - Portable Between Sites 1 and 7	66	64.8	61.9	59.4	55.3	55.7	56.5	56.2	59.4	63.9	63.7	64.2
Site 10 - Portable Between Sites 1 and 7	66	65.8	63.1	59.7	54.9	56.3	58.1	57.3	60.8	62.9	63.8	67.0

*Hourly-Average Leq (dBA)

Notes recorded by the on-site Independent Noise Monitor

Work:

Design-Builder worked between 7:00 a.m. and 9:00 a.m. to set up for day work. Vibing piles, backfill the north pit.

Public Comments:

No public comments received related to nighttime noise.

Exceedances:

Site 4, site 5 and site 10 are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance:

None.

Legend

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Major Public Project Construction Noise Variance
NOISE MONITORING - WEEKLY REPORT
Monday, October 5, 2020 to Sunday, October 11, 2020 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 10, 2020												
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	55.3	54.1	51.6	50.1	48.8	46.6	48.5	48.0	51.8	53.7	56.1
Site 2 - 2015 E. Roanoke St	78	61.0	58.9	56.6	54.2	52.6	50.6	52.0	53.3	57.2	58.1	60.9
Site 3 - 3810 E. McGilvra St	62	47.7	48.0	47.9	46.8	46.6	46.1	46.6	46.0	47.6	46.8	48.3
Site 4 - 2800 Montlake Blvd E	66	64.8	63.8	61.4	58.5	57.3	56.2	60.6	60.0	65.1	64.8	65.8
Site 5 - 2565 22nd Av E.	65	59.8	57.5	55.1	52.7	51.3	48.7	50.8	51.5	55.5	56.4	59.2
Site 6 - 2160 E. Hamlin St	63	54.5	54.1	51.1	49.6	48.6	46.0	48.0	46.3	50.4	52.5	54.3
Site 7 - 2209 E. Lake Wa Blvd	66	54.3	53.6	51.5	49.4	48.5	46.9	48.8	48.2	51.0	52.4	54.4
Site 8 - Portable Between Sites 4 and 6	63	59.4	55.7	53.5	52.8	52.3	51.8	52.6	51.5	53.6	54.4	56.3
Site 9 - Portable Between Sites 1 and 7	66	60.6	58.4	55.7	55.2	51.8	49.8	52.0	51.8	55.2	58.9	60.8
Site 10 - Portable Between Sites 1 and 7	66	62.0	60.0	56.8	55.8	52.1	50.6	52.8	54.0	57.6	60.9	63.2
*Hourly-Average Leq (dBA)												
Notes recorded by the on-site Independent Noise Monitor												
Work: No nighttime construction work performed. Public Comments: No public comments received related to nighttime noise. Exceedances: None 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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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 11, 2020												
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	57.5	55.3	58.3	50.2	47.8	46.4	53.2	57.8	61.2	N/A	N/A
Site 2 - 2015 E. Roanoke St	78	60.1	57.6	61.9	53.0	52.0	53.7	58.0	62.9	65.1	N/A	N/A
Site 3 - 3810 E. McGilvra St	62	51.8	51.7	53.5	46.9	46.5	46.1	48.2	51.1	52.4	N/A	N/A
Site 4 - 2800 Montlake Blvd E	66	65.9	63.9	64.6	58.1	57.6	57.3	63.5	69.7	71.7	N/A	N/A
Site 5 - 2565 22nd Av E.	65	59.6	57.2	60.9	52.7	50.9	51.8	57.2	61.9	64.0	N/A	N/A
Site 6 - 2160 E. Hamlin St	63	58.0	54.4	57.1	48.6	47.3	45.2	49.2	53.8	56.5	N/A	N/A
Site 7 - 2209 E. Lake Wa Blvd	66	55.0	53.1	53.6	48.0	46.9	46.8	52.5	57.0	60.2	N/A	N/A
Site 8 - Portable Between Sites 4 and 6	63	61.7	58.4	60.1	53.3	52.0	51.4	53.8	56.2	58.7	N/A	N/A
Site 9 - Portable Between Sites 1 and 7	66	61.1	58.0	57.9	53.1	50.5	50.1	59.2	65.7	68.1	N/A	N/A
Site 10 - Portable Between Sites 1 and 7	66	61.6	59.4	60.0	54.0	50.5	49.8	58.1	65.2	68.7	N/A	N/A
*Hourly-Average Leq (dBA)												
Notes recorded by the on-site Independent Noise Monitor												
Work: No nighttime construction work performed. Public Comments: No public comments received related to nighttime noise. Exceedances: Site 4, site 9 and site 10 are 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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= No contract work . Portable monitors are not being used (not needed).

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NOISE MONITORING - WEEKLY REPORT

Monday, October 5, 2020 to Sunday, October 11, 2020

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

Public Comment Log			
Date / Time	To/From	Issue	Resolution
		No noise related complaints.	