



SR 520 Bridge Replacement and HOV Program
 SR 520/I-5 Express Lanes Connection Project



SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Projects Construction Noise Variance #6733975-NV

Noise Monitoring Weekly Report Summary for **Monday, April 8, 2024** to **Sunday, April 14, 2024**

PUBLISHED October 25, 2023

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 SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements 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 five 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 #6733975).


MPPCNV start date: **Tuesday, August 23, 2022**

MPPCNV days to date: **601**

WEEKLY TOTALS	
Nights worked this week (under the MPPCNV)	5
Public nighttime noise issue comments to project	0
Project related exceedances this week	0
Other Project-related non-compliance events this week	0
Non-project-related noise exceedances this week	126

PROJECT TOTALS TO DATE	
Total Nights Worked	536
Total public noise issue comments to project	22
Total Project related exceedances	28
Total Other Project related non-compliance events	19
Total non-project related exceedances	14318

MPPCNV Construction Noise Monitoring Locations

 Monitor Location
 Actual location may vary depending on construction work.
 See MPPCNV Decision and Application

Site M1 

Site M2 

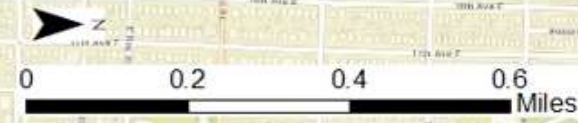
Site M4 

Site M5 

Site M6 

MPPCNV Noise Monitoring Compliance Limits

Site	Leq	L1
M1	72	82
M2	74	84
M4	70	80
M5	71	81
M6	66	76



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

**SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Project Construction Noise Variance - #6733975-NV**

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Monday, April 8, 2024													
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am	
M1 - 624 Yale Ave N	1 Hr Leq	72	69.1	67.7	66.3	63.7	65.0	65.6	65.2	68.9	72.4	N/A	N/A
	1 Hr L1	82	72.9	71.7	71.0	66.1	69.1	66.6	67.3	72.3	75.6	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	73.9	72.3	70.4	68.9	68.6	70.6	74.4	77.7	78.7	N/A	N/A
	1 Hr L1	84	76.2	75.0	73.3	72.0	71.6	74.4	77.6	79.8	80.2	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	62.4	60.2	57.6	56.7	55.5	55.2	59.0	61.8	63.5	N/A	N/A
	1 Hr L1	80	65.1	62.9	60.5	58.9	58.0	58.1	61.6	64.3	65.4	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.1	61.8	59.1	57.7	57.6	55.9	60.1	63.6	66.1	N/A	N/A
	1 Hr L1	81	66.8	64.3	61.8	60.0	59.5	58.3	62.7	66.0	68.5	N/A	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	77.0	76.3	74.5	73.0	73.1	67.8	68.9	78.9	80.3	N/A	N/A
	1 Hr L1	76	80.1	79.7	78.2	77.1	77.2	70.9	71.9	81.9	82.7	N/A	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.4	70.5	69.7	66.6	67.2	66.8	70.4	72.9	74.1	N/A	N/A
	1 Hr L1	81	73.1	72.2	70.3	69.2	69.6	69.3	72.5	74.4	75.7	N/A	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
Walsh backfilling with roller, bulldozer, backhoe, and excavator at Wall 7
Walsh placing MSE wall and strapping at Wall 7
Observed side dumps in Roanoke area

Public Comments:
See Public Comment Log

Exceedances:
Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:
None.

Legend
N/A = Time Period not applicable to MPPCNV
Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)
Red = Noise Level Exceedance (Project Related)
Blue = Noise Level Exceedance (Not Project Related)
~ = No Data Available

**SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Project Construction Noise Variance - #6733975-NV**

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Tuesday, April 9, 2024													
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am	
M1 - 624 Yale Ave N	1 Hr Leq	72	70.3	68.1	65.4	64.5	66.0	64.1	66.0	69.0	71.5	N/A	N/A
	1 Hr L1	82	73.8	72.2	69.3	68.0	69.4	66.1	68.9	72.6	74.7	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.7	73.6	70.5	68.5	70.8	71.9	74.8	77.7	78.9	N/A	N/A
	1 Hr L1	84	77.7	76.1	73.5	71.5	73.9	75.3	77.9	79.8	80.4	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	62.6	59.8	58.0	57.9	58.3	58.0	59.7	62.1	64.6	N/A	N/A
	1 Hr L1	80	64.7	62.3	60.4	60.3	60.4	60.5	62.0	64.4	66.2	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	63.9	60.9	58.2	57.5	57.7	57.5	59.9	63.7	66.2	N/A	N/A
	1 Hr L1	81	66.2	63.4	60.7	60.2	60.3	60.3	62.8	66.0	68.8	N/A	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	77.7	75.7	74.5	73.5	71.7	68.5	69.4	79.1	80.8	N/A	N/A
	1 Hr L1	76	80.7	79.4	78.3	77.9	76.0	71.9	72.6	82.3	83.1	N/A	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	69.8	67.5	66.5	66.0	66.8	66.3	69.0	70.7	72.7	N/A	N/A
	1 Hr L1	81	71.7	69.4	69.0	67.3	68.0	68.9	71.0	71.9	74.4	N/A	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
Walsh was backfilling near Wall 7 (two excavators, bulldozer, backhoe)
Side dumps seen at wall 7
Observed sweeper at Roanoke site

Public Comments:

Exceedances:
Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:
None.

Legend
N/A = Time Period not applicable to MPPCNV
Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)
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Blue = Noise Level Exceedance (Not Project Related)
~ = No Data Available

**SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Project Construction Noise Variance - #6733975-NV**

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Wednesday, April 10, 2024												
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	69.4	67.4	65.5	64.1	64.4	64.0	65.8	69.0	70.8	N/A
	1 Hr L1	82	73.2	71.7	70.8	67.0	68.4	66.3	68.8	72.5	74.2	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	78.2	78.0	77.0	75.9	75.3	73.5	71.6	71.3	71.1	N/A
	1 Hr L1	84	79.5	79.4	78.5	77.6	77.2	75.9	74.2	73.6	74.5	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	65.5	64.3	63.7	63.6	63.4	60.3	59.5	58.7	56.2	N/A
	1 Hr L1	80	66.9	66.1	65.5	65.5	65.4	62.8	61.4	61.4	59.0	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	67.0	65.5	64.5	64.0	63.5	60.7	60.3	57.4	57.4	N/A
	1 Hr L1	81	69.5	68.1	66.8	66.5	66.1	63.4	61.6	60.2	59.2	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	80.0	79.0	77.4	77.3	77.3	75.9	74.7	72.7	69.0	N/A
	1 Hr L1	76	82.8	81.9	80.4	80.3	80.5	79.5	78.3	76.7	72.6	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	73.1	72.5	71.7	71.7	70.6	68.7	68.5	66.0	64.9	N/A
	1 Hr L1	81	74.9	74.2	73.2	73.2	72.4	70.5	69.0	68.1	67.4	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
Observed backfilling near Wall 7 (two excavators, bulldozer, plate compactor)
Side dumps seen at wall 7
Sweeper at Gore entrance.

Public Comments:
None.

Exceedances:
Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:
None.

Legend
N/A = Time Period not applicable to MPPCNV
Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)
Red = Noise Level Exceedance (Project Related)
Blue = Noise Level Exceedance (Not Project Related)
~ = No Data Available

**SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Project Construction Noise Variance - #6733975-NV**

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Thursday, April 11, 2024												
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	70.5	68.5	66.1	64.7	65.1	62.7	65.2	68.8	71.1	N/A
	1 Hr L1	82	73.8	72.5	71.7	68.0	69.5	64.5	68.3	72.4	74.4	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.1	75.4	74.1	73.0	72.2	72.5	74.6	77.7	79.0	N/A
	1 Hr L1	84	77.7	77.7	76.8	76.2	75.7	76.2	77.7	79.9	80.5	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	63.1	61.0	59.0	57.8	55.1	56.2	59.0	63.2	64.7	N/A
	1 Hr L1	80	65.5	63.7	61.7	60.6	58.1	59.5	61.7	65.3	66.3	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.5	61.6	59.4	58.1	56.2	56.9	58.0	62.9	65.3	N/A
	1 Hr L1	81	67.2	64.3	62.5	60.8	59.0	59.8	61.1	65.5	67.6	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.7	68.6	61.5	60.9	60.4	62.2	63.3	78.4	80.4	N/A
	1 Hr L1	76	80.2	70.8	64.3	64.4	64.0	65.6	66.1	81.7	83.0	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	71.1	69.6	67.3	65.6	64.3	65.5	69.0	71.1	72.9	N/A
	1 Hr L1	81	72.9	71.2	69.3	67.0	66.5	67.9	70.7	72.7	74.6	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
Observed backfilling near Wall 7 (excavator, bulldozer, plate compactor)
Side dumps seen at wall 7

Public Comments:
None.

Exceedances:
Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:
None.

Legend
N/A = Time Period not applicable to MPPCNV
Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)
Red = Noise Level Exceedance (Project Related)
Blue = Noise Level Exceedance (Not Project Related)
~ = No Data Available

**SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Project Construction Noise Variance - #6733975-NV**

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Friday, April 12, 2024												
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	70.5	70.0	68.6	67.4	65.8	64.4	63.9	65.5	68.7	70.7
	1 Hr L1	82	73.8	73.5	72.5	71.5	70.0	67.5	66.7	68.7	72.9	73.6
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.5	76.9	76.1	74.5	73.9	72.3	72.5	73.5	75.9	78.4
	1 Hr L1	84	78.2	78.2	77.9	76.6	76.6	75.5	75.5	76.3	78.4	80.0
M4 - 3625 Federal Ave E	1 Hr Leq	70	63.5	62.8	62.1	60.0	59.6	59.3	57.5	59.5	61.7	64.4
	1 Hr L1	80	65.1	64.6	64.1	62.3	61.8	60.4	59.7	62.0	64.0	66.1
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.3	63.2	62.5	60.1	58.9	63.4	56.7	60.5	62.6	65.6
	1 Hr L1	81	66.6	65.4	64.5	62.7	61.6	60.0	59.2	62.4	65.0	68.1
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.9	69.3	63.4	61.3	60.7	60.2	60.1	62.0	64.0	77.6
	1 Hr L1	76	80.1	72.7	65.1	63.7	63.3	63.2	63.1	64.6	66.1	80.7
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	70.7	69.9	70.1	67.1	66.7	66.0	65.8	66.9	69.0	71.8
	1 Hr L1	81	72.5	71.6	71.2	68.8	68.7	67.7	67.9	68.7	70.6	73.6

Notes recorded by the on-site Independent Noise Monitor

Work:
No Work

Public Comments:
None.

Exceedances:
Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:
None.

Legend
 N/A = Time Period not applicable to MPPCNV
 Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
 L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)
 Red = Noise Level Exceedance (Project Related)
 Blue = Noise Level Exceedance (Not Project Related)
 ~ = No Data Available

**SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements
Major Public Project Construction Noise Variance - #6733975-NV**

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

The table below includes data gathered from noise monitoring equipment in the Project area

Saturday, April 13, 2024												
Site	Site limit (dBA)	10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1 Hr Leq	72	71.2	69.4	67.9	66.8	65.9	65.3	63.7	65.3	67.8	69.6
	1 Hr L1	82	73.6	73.3	72.3	71.3	70.0	69.0	67.0	68.9	72.4	73.0
M2 - 1547 Boylston Ave E	1 Hr Leq	74	76.4	76.3	75.6	74.3	73.7	72.3	71.1	72.5	74.8	77.3
	1 Hr L1	84	77.9	78.0	77.7	76.8	76.3	75.1	74.2	75.4	77.4	79.2
M4 - 3625 Federal Ave E	1 Hr Leq	70	63.6	62.0	61.6	61.2	60.9	59.4	56.5	58.7	61.8	61.3
	1 Hr L1	80	65.3	64.1	63.1	63.2	63.3	61.6	59.0	61.3	64.0	63.6
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	64.6	62.9	62.8	60.9	61.0	59.8	56.7	58.8	61.8	63.5
	1 Hr L1	81	66.7	65.0	63.6	63.6	64.1	62.7	59.4	61.5	64.2	66.3
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.1	69.9	67.5	61.2	60.4	59.1	58.8	63.0	63.1	76.3
	1 Hr L1	76	79.2	74.1	64.4	63.3	62.8	61.9	61.7	64.5	65.3	79.9
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	70.5	71.9	69.0	69.5	66.8	65.3	65.4	67.1	68.5	70.3
	1 Hr L1	81	72.5	72.0	70.7	69.8	68.7	66.9	67.6	69.2	70.3	72.7

Notes recorded by the on-site Independent Noise Monitor

Work:
Walsh was backfilling near Wall 7 (plate compactor, excavator, bulldozer)
Side dumps seen at wall 7
Sweeper seen in the Roanoke area

Public Comments:
None.

Exceedances:
Site(s) M1, M2, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:
None.

Legend
N/A = Time Period not applicable to MPPCNV
Leq = Leq means the equivalent sound level, which is the constant sound level in a given time period.
L1 = L1 means the Sound level exceeded for 1 percent of the measurement duration (i.e., 36 seconds per hour)
Red = Noise Level Exceedance (Project Related)
Blue = Noise Level Exceedance (Not Project Related)
~ = No Data Available

SR520 I5 Mercer Street to SR520 Portage Bay - I5 Interchange Improvements

Major Public Project Construction Noise Variance - #6733975-NV

NOISE MONITORING - WEEKLY REPORT

Monday, April 8, 2024 to Sunday, April 14, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

Sunday, April 14, 2024													
Site			10pm - 11pm	11pm - 12am	12am - 1am	1am - 2am	2am - 3am	3am - 4am	4am - 5am	5am - 6am	6am - 7am	7am - 8am	8am - 9am
M1 - 624 Yale Ave N	1												
M2 - 1547 Boylston Ave E													
M4 - 3625 Federal Ave E													
M5 - E Roanoke St & 10th Ave E													

No Work

Public Comments:

None.

Exceedances:

Site(s) M1, M2, M5, M6 & Mobile exceedances are not project related. Exceedances are caused by public traffic driving by the noise monitors.

Non-Compliance Events:

None.

