



**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, July 22, 2024 to Sunday, July 28, 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: 706

WEEKLY TOTALS	
Nights worked this week (under the MPPCNV)	6
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	122

PROJECT TOTALS TO DATE	
Total Nights Worked	608
Total public noise issue comments to project	24
Total Project related exceedances	28
Total Other Project related non-compliance events	20
Total non-project related exceedances	16565

MPPCNV Construction Noise Monitoring Locations

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

Site M1 

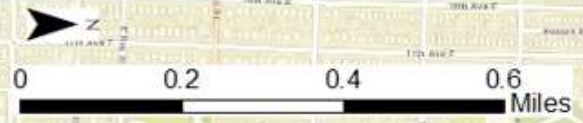
Site M2 

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, July 22, 2024 to Sunday, July 28, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

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

Monday, July 22, 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	68.7	66.4	65.2	64.5	63.2	62.8	65.2	68.8	71.4	N/A	N/A
	1 Hr L1	82	72.2	70.5	68.9	67.6	66.8	64.8	68.2	72.3	73.9	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.1	73.6	70.3	71.2	71.4	72.0	74.5	77.4	78.8	N/A	N/A
	1 Hr L1	84	77.0	76.1	73.6	74.2	74.9	75.5	77.5	79.6	79.9	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	59.4	57.5	56.0	54.2	52.3	53.3	56.0	60.5	62.8	N/A	N/A
	1 Hr L1	80	61.7	59.5	58.2	56.7	55.2	56.2	58.9	62.8	64.4	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	62.1	59.5	57.9	55.0	55.2	54.8	58.5	62.9	65.6	N/A	N/A
	1 Hr L1	81	64.9	62.0	60.3	58.0	56.7	57.6	61.3	65.2	68.4	N/A	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	75.4	68.9	61.6	61.4	60.4	61.9	65.0	79.0	80.6	N/A	N/A
	1 Hr L1	76	78.9	73.0	64.6	64.4	64.1	65.0	66.7	82.2	82.8	N/A	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	71.9	70.1	67.8	66.5	66.1	67.3	70.8	73.4	74.3	N/A	N/A
	1 Hr L1	81	74.1	72.1	69.9	68.6	68.2	69.4	72.9	75.2	76.2	N/A	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
Walsh was in the express lane excavating against Wall 2
Valley was on top of Wall 1 / Wall 2
Walsh was on top of Wall 2 preparing for a pour

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, July 22, 2024 to Sunday, July 28, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

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

Tuesday, July 23, 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	69.0	67.0	64.2	63.0	66.3	63.4	65.0	68.8	70.2	N/A	N/A
	1 Hr L1	82	72.5	71.1	67.9	66.3	68.8	65.4	67.8	72.5	73.4	N/A	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.9	74.9	74.1	72.4	72.1	72.0	74.6	77.5	78.5	N/A	N/A
	1 Hr L1	84	77.4	76.9	76.6	75.6	75.6	75.6	77.5	79.6	80.0	N/A	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	60.9	57.9	55.5	53.0	53.9	53.3	56.0	60.8	62.5	N/A	N/A
	1 Hr L1	80	62.7	60.1	58.3	56.1	55.9	56.1	58.7	63.2	64.4	N/A	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	63.2	60.3	57.2	55.2	55.6	54.7	58.2	63.0	65.4	N/A	N/A
	1 Hr L1	81	66.3	63.0	60.1	57.5	57.3	57.2	60.7	65.5	68.3	N/A	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.2	69.1	62.6	61.3	61.5	62.1	65.4	79.0	80.3	N/A	N/A
	1 Hr L1	76	79.4	73.2	65.3	64.4	64.9	65.4	66.7	82.3	82.7	N/A	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.1	70.1	68.1	67.6	66.4	67.5	70.6	73.4	74.6	N/A	N/A
	1 Hr L1	81	74.2	71.6	70.3	68.9	68.5	69.7	72.6	75.2	76.3	N/A	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
Valley was on the bridge
Walsh was near Wall 25 with an excavator

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)
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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, July 22, 2024 to Sunday, July 28, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

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

Wednesday, July 24, 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	68.9	66.8	65.0	64.0	65.9	63.0	65.2	68.9	70.6	N/A
	1 Hr L1	82	71.6	70.0	68.9	68.0	68.5	65.8	68.2	72.3	73.7	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	74.2	77.2	76.9	76.1	75.2	74.8	73.7	72.0	71.7	N/A
	1 Hr L1	84	76.5	78.7	78.4	77.5	77.0	76.9	76.5	75.3	75.2	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	64.5	64.4	64.1	61.6	60.3	57.7	54.7	52.7	51.8	N/A
	1 Hr L1	80	65.6	65.7	65.4	63.3	62.2	60.2	57.8	55.7	55.1	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	67.7	66.2	65.3	63.7	62.8	61.0	57.6	55.3	54.3	N/A
	1 Hr L1	81	69.7	68.4	67.9	66.2	65.3	63.6	60.5	57.8	56.9	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	79.9	78.2	77.6	76.5	76.5	68.0	61.5	60.1	61.5	N/A
	1 Hr L1	76	82.2	81.1	80.6	79.9	79.5	70.4	64.5	63.5	63.9	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.2	73.2	73.8	72.9	72.4	70.7	68.8	66.7	66.3	N/A
	1 Hr L1	81	74.4	75.2	75.7	74.8	74.3	72.0	70.7	68.8	68.6	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:

Observed Walsh removing quarry spalls from the right side of the Mercer exit
Walsh/Valley were at the top of the SB I-5 to Mercer Offramp backfilling against the barrier

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, July 22, 2024

to

Sunday, July 28, 2024

10 pm to 7 am (weekdays)/ 9am (weekends)

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

Thursday, July 25, 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	65.8	64.9	64.1	70.5	63.8	60.2	66.9	68.4	70.2	N/A
	1 Hr L1	82	67.0	66.5	64.4	75.8	65.7	62.2	68.9	71.6	73.4	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.4	73.7	71.8	70.2	69.5	68.5	73.0	77.1	78.3	N/A
	1 Hr L1	84	77.2	75.9	74.3	72.9	72.5	71.5	76.6	79.2	80.0	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	60.8	58.9	56.3	54.5	53.3	51.9	55.7	60.0	62.1	N/A
	1 Hr L1	80	62.5	60.9	59.0	57.3	55.5	55.1	59.1	62.4	63.7	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	63.0	61.8	58.2	55.9	55.1	53.5	57.8	62.4	64.6	N/A
	1 Hr L1	81	65.9	63.7	61.0	59.1	56.9	56.4	61.4	64.7	67.0	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.2	76.0	75.4	73.8	73.8	73.9	73.9	78.4	79.9	N/A
	1 Hr L1	76	79.6	79.2	79.0	77.9	78.0	78.0	78.2	81.7	82.4	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.7	74.1	70.0	68.3	68.9	69.0	71.3	73.1	73.6	N/A
	1 Hr L1	81	74.7	73.0	72.2	70.5	70.0	71.2	73.1	75.1	75.5	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:
 Petersen was removing temp barriers next to Wall 21
 Valley was observed on Lakeview under I-5

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

NOISE MONITORING - WEEKLY REPORT

Monday, July 22, 2024 to Sunday, July 28, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

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

Friday, July 26, 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	69.5	69.7	69.0	67.4	66.8	66.5	64.9	65.8	68.0	69.7
	1 Hr L1	82	72.4	72.4	72.1	71.7	71.2	68.6	68.0	69.7	72.1	72.4
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.6	74.8	75.7	74.3	74.0	72.4	72.6	73.6	75.8	76.3
	1 Hr L1	84	77.1	76.8	77.4	76.6	76.5	75.4	75.7	76.4	78.1	78.4
M4 - 3625 Federal Ave E	1 Hr Leq	70	61.1	56.9	55.6	52.2	52.5	56.3	49.3	51.7	54.4	58.5
	1 Hr L1	80	62.7	58.4	57.0	54.0	54.2	51.7	51.3	53.4	55.2	62.3
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	63.7	61.4	60.2	58.4	56.4	55.0	56.3	60.4	62.7	65.3
	1 Hr L1	81	66.2	65.6	64.0	61.6	58.0	55.8	58.4	64.9	67.8	69.3
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.9	70.8	63.3	62.1	61.2	61.1	62.6	62.7	64.1	77.6
	1 Hr L1	76	80.2	75.5	65.6	64.5	64.0	64.2	64.7	65.1	66.2	80.5
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.5	72.3	71.2	69.9	70.0	68.0	68.9	70.6	70.8	72.6
	1 Hr L1	81	74.6	74.4	73.4	72.2	72.4	69.9	70.9	72.6	73.2	75.2

Notes recorded by the on-site Independent Noise Monitor

Work:

Petersen was onsite removing barriers
Evergreen was sawcutting on the 520 to I5 overpass
PRS was grinding asphalt along SB I-5
Provac was sweeping on top of Wall 1
Pivetta was excavating along SB I-5

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)
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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, July 22, 2024 to Sunday, July 28, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

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

Saturday, July 27, 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	69.2	69.2	68.0	66.9	66.4	64.1	63.7	64.9	66.8	68.0	69.2
	1 Hr L1	82	72.2	72.3	71.8	71.1	70.8	68.2	67.1	68.5	71.1	71.9	72.7
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.5	70.7	73.0	73.8	73.1	71.2	71.3	71.9	74.2	75.2	76.2
	1 Hr L1	84	77.0	74.3	75.9	76.2	75.8	74.1	74.5	74.9	76.8	77.5	78.2
M4 - 3625 Federal Ave E	1 Hr Leq	70	59.4	55.0	51.3	51.8	47.6	48.5	50.4	53.5	54.5	55.7	56.3
	1 Hr L1	80	61.9	56.5	52.3	50.9	49.3	48.0	50.9	56.9	57.3	59.4	59.8
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	62.7	61.6	60.0	57.9	55.6	55.6	56.9	59.9	61.6	62.5	63.7
	1 Hr L1	81	67.1	66.1	64.4	61.6	55.9	55.0	59.1	63.3	66.0	66.9	67.9
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.8	69.1	62.6	61.4	60.7	59.8	60.6	61.8	63.4	64.6	75.9
	1 Hr L1	76	79.9	72.8	64.4	63.7	63.2	62.5	63.0	64.3	65.6	66.6	79.3
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.2	71.9	69.8	68.4	67.5	67.8	66.6	68.7	70.0	71.0	72.1
	1 Hr L1	81	74.2	73.1	72.5	70.7	69.8	69.6	68.7	71.2	72.3	73.7	74.5

Notes recorded by the on-site Independent Noise Monitor

Work:
Lakeside was on SB I-5 paving

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)
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 ~ = 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, July 22, 2024 to Sunday, July 28, 2024 10 pm to 7 am (weekdays)/ 9am (weekends)

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

Sunday, July 28, 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	68.9	67.8	66.1	64.0	62.9	63.6	65.0	68.5	70.9	N/A
	1 Hr L1	82	72.4	71.7	70.5	67.9	65.6	66.3	67.7	71.8	74.8	N/A
M2 - 1547 Boylston Ave E	1 Hr Leq	74	75.0	74.7	73.4	71.8	71.7	71.4	73.9	76.4	77.1	N/A
	1 Hr L1	84	76.9	76.8	75.8	74.9	75.1	74.9	77.0	78.6	78.6	N/A
M4 - 3625 Federal Ave E	1 Hr Leq	70	58.2	56.5	49.6	49.7	47.2	46.2	53.5	59.8	61.9	N/A
	1 Hr L1	80	62.4	60.7	51.1	48.8	47.0	47.5	56.5	62.6	63.9	N/A
M5 - E Roanoke St & 10th Ave E	1 Hr Leq	71	62.7	60.0	56.2	55.3	52.5	55.2	58.1	63.0	65.9	N/A
	1 Hr L1	81	67.2	64.6	59.5	57.4	52.1	56.1	61.2	65.6	68.1	N/A
M6 - 3125 Eastlake Ave E	1 Hr Leq	66	76.4	67.9	61.2	60.2	59.7	60.8	64.1	78.5	79.3	N/A
	1 Hr L1	76	79.6	69.6	63.7	63.4	63.0	64.1	66.5	81.5	81.6	N/A
Mobile - 2411 Boylston Ave E	1 Hr Leq	71	72.1	70.4	68.5	67.2	66.1	67.7	70.7	73.4	74.1	N/A
	1 Hr L1	81	74.7	72.1	70.9	69.1	68.2	69.6	72.8	75.2	75.9	N/A

Notes recorded by the on-site Independent Noise Monitor

Work:

No work during MPPCNV hours

Public Comments:

None.

Exceedances:

Site(s) 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

