



Approximate Location of Construction Activities



Approximate Location of Vibration Monitor

	Revision	Date	issue	Approvai	
ı	Client				
	Queens University				
	St. Mary's Of the lake Hospital				
	Report Title				
ш	Vibration Monitor Locations				

18/02/2021

Site Map

100	Designed By	Scale
-	S.G	As Shown
D.	Drawn By Da	te
	C.W	February 2021
100	Approved By	Project No.
1	S.G	2101810.000
2	Figure No2	

Table 1 - Vibration Exceedance Protocol at Neighboring Structures (Adopted from City of Ottawa SP. F-1201)

Frequency Hz	PPV mm/s	Required Action	Description of Event
All PPV < 20		No Action Required	
≤ 40	First Exceedance – Review construct operations and alter procedures as necessary. Proceed with caution with activities subject to the approval of th Contractor. PPV ≥ 20 Second Consecutive Exceedance – Contractor to cease all operations, review activities and submit revised w methodology to the Owners and Projection.		Notification email sent, vibration expert to review vibration event for contract compliance.
	PPV ≥ 50	First Exceedance – Contractor to cease all operations, review activities and submit revised work methodology to the Owners and Project Team.	Notification email sent, vibration expert to review vibration event for contract compliance.
	PPV < 45	No Action Required	
	45 ≤ PPV < 50	Warning Level – Review construction operations and alter procedures if necessary. Proceed with caution with activities.	Notification email sent, vibration expert to review vibration event for contract compliance.
> 40	PPV ≥ 50	First Exceedance – Review construction operations and alter procedures as necessary. Proceed with caution with activities subject to the approval of the Contractor. Second Consecutive Exceedance – Contractor to cease all operations, review activities and submit revised work methodology to the Owners and Project Team.	Notification email sent, vibration expert to review vibration event for contract compliance.



Subject: Vibration Monitoring Summary – February 19 to March 4, 2021 Project: St. Mary's of the Lake Renovations Client: Queens University Ref No: 02101810.000

Table 2: Maximum Peak Particle Velocity

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Seismograph Location	Date of Installation	Maximum Peak Particle Velocity (PPV) [mm/s]	Date of Maximum Vibration Trigger
18 Centre Street	February 19, 2021	0.254	February 19, 2021
26 Centre Street	February 19, 2021	0.508	February 28, 2021
31 Ellerbeck Street	February 19, 2021	0.381	February 24, 2021
365 King Street West	February 19, 2021	1.143	February 22, 2021

GLOSSARY:
ł: Histogram
V: Waveform
**: Not Available
ran: Maximum peak particle velocity along the tranverse plane
/ert: Maximum peak particle velocity along the vertical plane
ong: Maximum peak particle velocity along the longitudinal plane
req: Frequency
PVS: Peak Vector Sum
Highest Vibration level recorded at this monitoring location during this monitoring period

