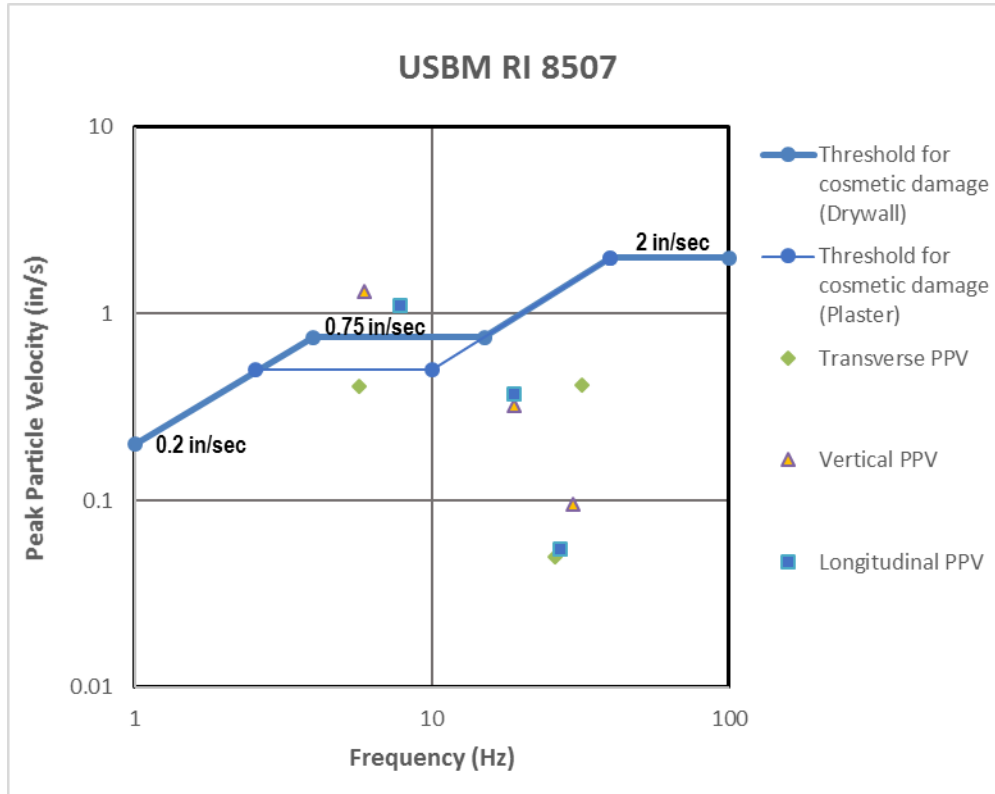


## 39<sup>th</sup> Avenue Greenway Vibration Monitoring

Week of April 14 to April 20, 2019

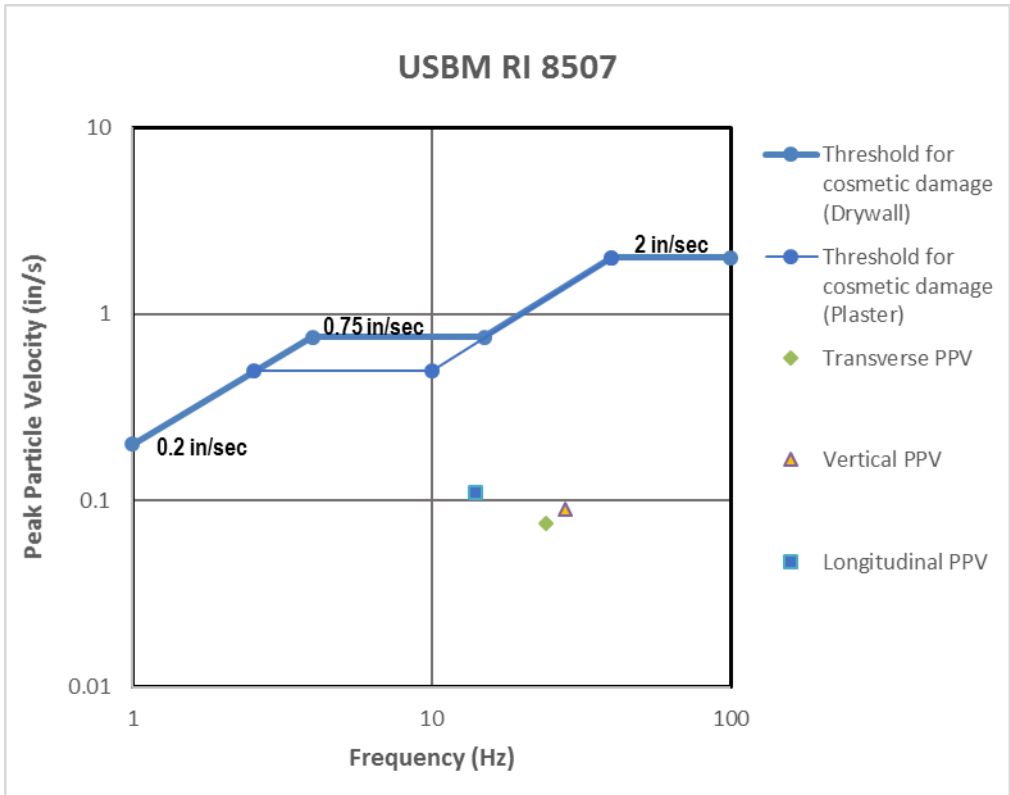
Vibration monitoring was performed near the A-12 Structure shoring installation and excavation. In addition, H-Pile driving was performed for the proposed High Street and Gilpin Pedestrian Bridges.

**A-12 Structure and High Street Pedestrian Bridge, adjacent to the west and northeast side of the High Street Bar and Grill (Zone 7)**

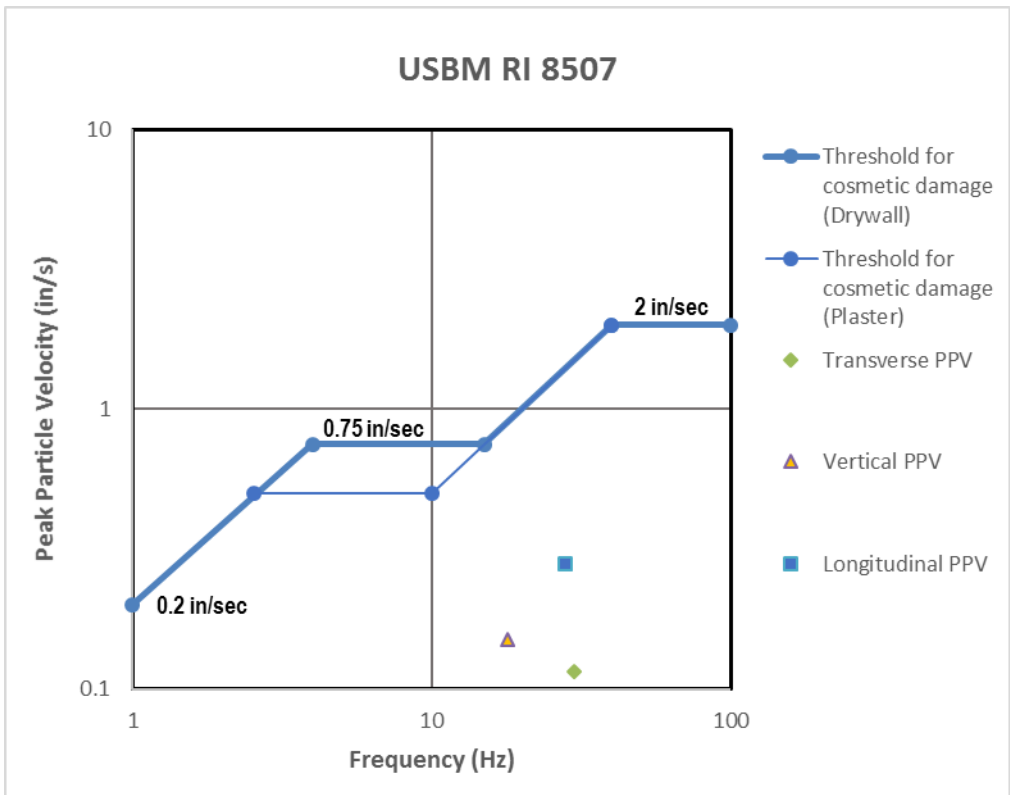


On April 16, 2019, at approximately 9:50 in the morning, the threshold amplitude of ground vibrations generated from the construction activities exceeded the levels set forth in the U.S. Bureau of Mines (USBM) recommendation (RI 8507 1980) that are capable of producing damage to plaster and drywall in residential structures, as shown on the graph above. According to Mr. Jose Chavez with SEMA Construction, the exceedance occurred while SEMA was adjusting the shoring for the A-12 Structure.

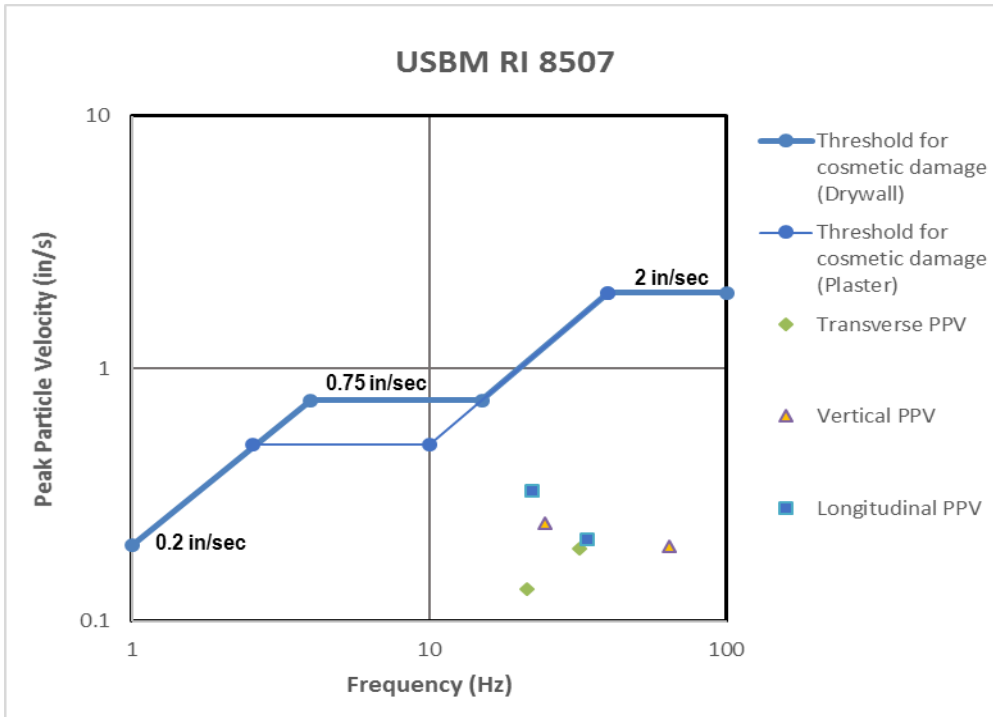
**H-Pile driving for High Street Pedestrian Bridge, northwest of northern abutment (Zone 7)**



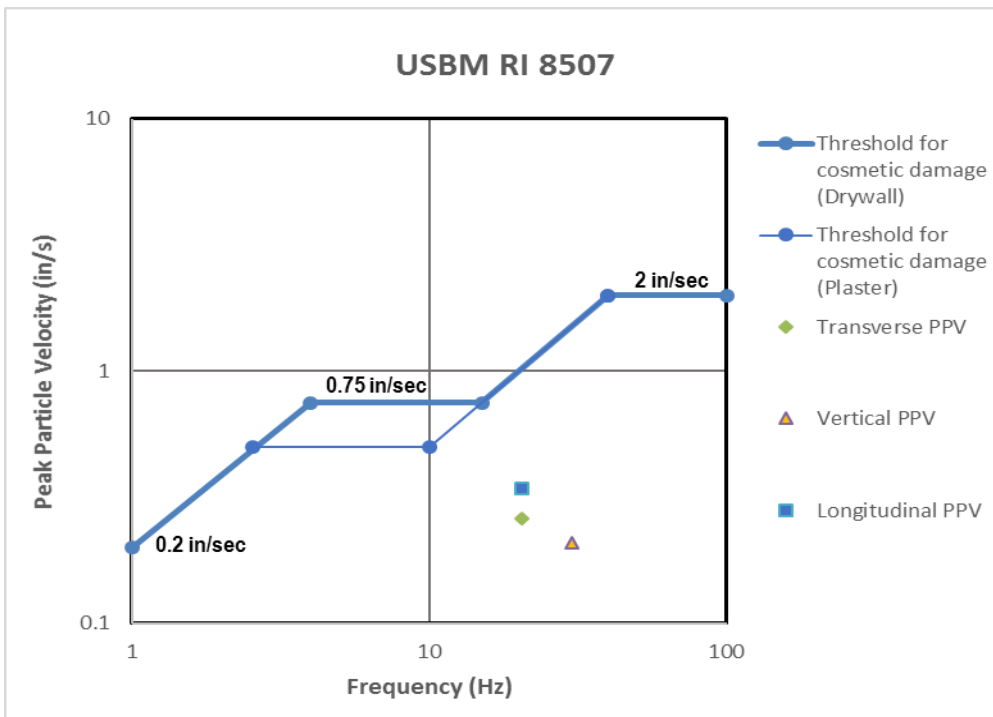
**H-Pile driving for Gilpin Street Pedestrian Bridge, southwest of southern abutment (Zone 4)**



**H-Pile driving for High Street Pedestrian Bridge, west of the bridge (Zone 7)**



**H-Pile driving for Gilpin Street Pedestrian Bridge, west of the bridge (Zone 4)**



**Noise Monitoring:**

Date	Leq (dB(A))	Lmax (dB(A))
April 16, 2019	77.3	103.9
April 16, 2019	78.0	112.3
April 18, 2019	81.5	104.3

