Payne & Dolan, Inc.

Racine Quarry - Village of Caledonia

Recorded Ground Vibration and Airblast Levels for the East Quarry CUP (New) Area October 2023

All Ground Vibrations (PPV) were below State of Wisconsin and Village of Caledonia Maximum Limits

All Airblasts (AO) were below State of Wisconsin and Village of Caledonia Maximum Limits

10/30/2023 12:17 EAST 65 Ellis 1,730 N/T N/T N/A 10/30/2023 12:17 EAST 65 St. Rita 1,528 N/T N/T N/A 10/30/2023 12:17 EAST 65 St. Rita 1,528 N/T N/T N/A 10/30/2023 12:17 EAST 65 Marquette 696 0.118 38.5 108 10/30/2023 12:17 EAST 65 Berkeley 1,076 0.086 22.7 108 10/30/2023 12:03 EAST 64 Ellis 1,930 0.036 13.2 111 10/30/2023 12:03 EAST 64 St. Rita 1,683 0.033 12.2 116 10/30/2023 12:03 EAST 64 Marquette 678 0.256 55.6 118 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 11:48 EAST 60 St. Rita 1,091 0.163 26.3 114 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 Berkeley 468 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/17/2023 10:45 EAST 60 Berkeley 467 0.037 2.78 119 10/11/2023 13:29 EAST 59 St. Rita 1,675 0.04 18.5 116 10/17/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 1,675 0.04 18.5 116 10/17/2023 13:29 EAST 59 St. Rita 1,675 0.04 18.5 116 10/17/2023 13:29 EAST 59 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 90 0.037 2.94 115 10/11/2023 13:17 EAST 58 Berkeley 90 0.19 2.63 110 10/11/2023 10:02 EAST 57 Berkeley 1.735 0.042 2.63 116 10/11/2023 10:02 EAST 57 Berkeley 1.735 0.042 2	Time	Activity	Location	Distance	PPV	Freq	AO
10/30/2023 12:17 EAST 65 St. Rita 1,528 N/T N/T N/A 10/30/2023 12:17 EAST 65 Marquette 696 0.118 38.5 108 10/30/2023 12:17 EAST 65 Berkeley 1,076 0.086 22.7 108 10/30/2023 12:03 EAST 64 Ellis 1,930 0.036 13.2 111 10/30/2023 12:03 EAST 64 St. Rita 1,683 0.033 12.2 116 10/30/2023 12:03 EAST 64 Marquette 678 0.256 55.6 118 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/T N/A 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Berkeley 1,668 0.055 31.7 120 10/17/2023 10:45 EAST 60 Berkeley 1,668 0.055 31.7 120 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:27 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116							
10/30/2023 12:17 EAST 65 Marquette 696 0.118 38.5 108 10/30/2023 12:17 EAST 65 Berkeley 1,076 0.086 22.7 108 10/30/2023 12:03 EAST 64 Ellis 1,930 0.036 13.2 111 10/30/2023 12:03 EAST 64 St. Rita 1,683 0.033 12.2 116 10/30/2023 12:03 EAST 64 Marquette 678 0.256 55.6 118 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 1,081 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Berkeley 1,074 0.163 26.3 114 10/17/2023 11:48 EAST 61 Berkeley 1,074 0.163 26.3 114 10/17/2023 11:48 EAST 61 Berkeley 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 Berkeley 497 0.163 26.3 117 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/17/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116			St. Rita				
10/30/2023 12:17 EAST 65 Berkeley 1,076 0.086 22.7 108 10/30/2023 12:03 EAST 64 Ellis 1,930 0.036 13.2 111 10/30/2023 12:03 EAST 64 St. Rita 1,683 0.033 12.2 116 10/30/2023 12:03 EAST 64 Marquette 678 0.256 55.6 118 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Berkeley 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Berkeley 1,668 0.265 35.7 116 10/17/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:17 EAST 58 St. Rita 1,081 0.135 26.3 119 10/11/2023 13:29 EAST 59 St. Rita 1,675 0.04 18.5 116 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116			Marquette		-	-	
10/30/2023 12:03 EAST 64 Ellis 1,930 0.036 13.2 111 10/30/2023 12:03 EAST 64 St. Rita 1,683 0.033 12.2 116 10/30/2023 12:03 EAST 64 Marquette 678 0.256 55.6 118 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Marquette 678 0.103 23.8 117 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/T N/A 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 13:29 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:17 EAST 59 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:17 EAST 59 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 59 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 490 0.19 26.3 109 10/11/2023 10:10 EAST 57 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 St. Rita 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/30/2023 12:17	EAST 65	•		0.086		108
10/30/2023 12:03 EAST 64 Marquette 678 0.256 55.6 118 10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Marquette 678 0.103 23.8 117 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 11:48 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 60 Elli	10/30/2023 12:03	EAST 64	Ellis	1,930	0.036	13.2	111
10/30/2023 12:03 EAST 64 Berkeley 878 0.143 23.8 110 10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/T N/A 10/30/2023 9:22 EAST 63 Marquette 678 0.103 23.8 117 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 11:48 EAST 61 Ellis 1,138 0.185 55.6 118 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 10:45 EAST 60 Ellis 1,920 <t< td=""><td>10/30/2023 12:03</td><td>EAST 64</td><td>St. Rita</td><td>1,683</td><td>0.033</td><td>12.2</td><td>116</td></t<>	10/30/2023 12:03	EAST 64	St. Rita	1,683	0.033	12.2	116
10/30/2023 9:22 EAST 63 Ellis 2,375 N/T N/T N/A 10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Marquette 678 0.103 23.8 117 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06	10/30/2023 12:03	EAST 64	Marquette	678	0.256	55.6	118
10/30/2023 9:22 EAST 63 St. Rita 2,127 N/T N/T N/A 10/30/2023 9:22 EAST 63 Marquette 678 0.103 23.8 117 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 Ellis 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 114 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06	10/30/2023 12:03	EAST 64	Berkeley	878	0.143	23.8	110
10/30/2023 9:22 EAST 63 Marquette 678 0.103 23.8 117 10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/T 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Berkeley	10/30/2023 9:22	EAST 63	Ellis	2,375	N/T	N/T	N/A
10/30/2023 9:22 EAST 63 Berkeley 436 0.166 55.6 115 10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 </td <td>10/30/2023 9:22</td> <td>EAST 63</td> <td>St. Rita</td> <td>2,127</td> <td>N/T</td> <td>N/T</td> <td>N/A</td>	10/30/2023 9:22	EAST 63	St. Rita	2,127	N/T	N/T	N/A
10/17/2023 13:47 EAST 62 Ellis 2,346 N/T N/T N/A 10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285<	10/30/2023 9:22	EAST 63	Marquette	678	0.103	23.8	117
10/17/2023 13:47 EAST 62 St. Rita 2,078 N/T N/T N/A 10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 60 Belis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T<	10/30/2023 9:22	EAST 63	Berkeley	436	0.166	55.6	115
10/17/2023 13:47 EAST 62 Marquette 712 0.108 50.0 117 10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/T N/A 10/11/2023 13:29 EAST 59	10/17/2023 13:47	EAST 62	Ellis	2,346	N/T	N/T	N/A
10/17/2023 13:47 EAST 62 Berkeley 461 0.185 55.6 118 10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 10:45 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:17 EAST 58 Ellis	10/17/2023 13:47	EAST 62	St. Rita	2,078	N/T	N/T	N/A
10/17/2023 11:48 EAST 61 Ellis 1,138 0.108 19.2 111 10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis	10/17/2023 13:47	EAST 62	Marquette	712	0.108	50.0	117
10/17/2023 11:48 EAST 61 St. Rita 1,081 0.133 26.3 114 10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita <td>10/17/2023 13:47</td> <td>EAST 62</td> <td>Berkeley</td> <td>461</td> <td>0.185</td> <td>55.6</td> <td>118</td>	10/17/2023 13:47	EAST 62	Berkeley	461	0.185	55.6	118
10/17/2023 11:48 EAST 61 Marquette 1,074 0.163 26.3 117 10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita	10/17/2023 11:48	EAST 61	Ellis	1,138	0.108	19.2	111
10/17/2023 11:48 EAST 61 Berkeley 1,668 0.055 21.7 120 10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley	10/17/2023 11:48	EAST 61	St. Rita	1,081	0.133	26.3	114
10/17/2023 10:45 EAST 60 Ellis 1,920 0.06 18.5 113 10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125	10/17/2023 11:48	EAST 61	Marquette	1,074	0.163	26.3	117
10/17/2023 10:45 EAST 60 St. Rita 1,675 0.04 18.5 116 10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita	10/17/2023 11:48	EAST 61	Berkeley	1,668	0.055	21.7	120
10/17/2023 10:45 EAST 60 Marquette 678 0.265 35.7 116 10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Berkeley	10/17/2023 10:45	EAST 60	Ellis	1,920	0.06	18.5	113
10/17/2023 10:45 EAST 60 Berkeley 888 0.285 33.3 108 10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Berkeley	10/17/2023 10:45	EAST 60	St. Rita	1,675	0.04	18.5	116
10/11/2023 13:29 EAST 59 Ellis 2,311 N/T N/T N/A 10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley	10/17/2023 10:45	EAST 60	Marquette	678	0.265	35.7	116
10/11/2023 13:29 EAST 59 St. Rita 2,064 N/T N/T N/A 10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/17/2023 10:45	EAST 60	Berkeley	888	0.285	33.3	108
10/11/2023 13:29 EAST 59 Marquette 658 0.115 27.8 119 10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:29	EAST 59	Ellis	2,311	N/T	N/T	N/A
10/11/2023 13:29 EAST 59 Berkeley 497 0.115 50.0 108 10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:29	EAST 59	St. Rita	2,064	N/T	N/T	N/A
10/11/2023 13:17 EAST 58 Ellis 1,904 0.037 29.4 115 10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:29	EAST 59	Marquette	658	0.115	27.8	119
10/11/2023 13:17 EAST 58 St. Rita 1,637 N/T N/T N/A 10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:29	EAST 59	Berkeley	497	0.115	50.0	108
10/11/2023 13:17 EAST 58 Marquette 730 0.235 38.5 117 10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:17	EAST 58	Ellis	1,904	0.037	29.4	115
10/11/2023 13:17 EAST 58 Berkeley 909 0.19 26.3 109 10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:17	EAST 58	St. Rita	1,637	N/T	N/T	N/A
10/11/2023 10:02 EAST 57 Ellis 1,084 0.125 14.3 109 10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:17	EAST 58	Marquette	730	0.235	38.5	117
10/11/2023 10:02 EAST 57 St. Rita 935 0.152 26.3 116 10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 13:17	EAST 58	Berkeley	909	0.19	26.3	109
10/11/2023 10:02 EAST 57 Marquette 1,209 0.162 22.7 116 10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 10:02	EAST 57	Ellis	1,084	0.125	14.3	109
10/11/2023 10:02 EAST 57 Berkeley 1,735 0.042 26.3 116	10/11/2023 10:02	EAST 57	St. Rita	935	0.152	26.3	116
·	10/11/2023 10:02	EAST 57	Marquette	1,209	0.162	22.7	116
10/5/2023 12:32 EAST 56 Ellis 1,181 0.095 35.7 109	10/11/2023 10:02	EAST 57	Berkeley	1,735	0.042	26.3	116
	10/5/2023 12:32	EAST 56	Ellis	1,181	0.095	35.7	109
10/5/2023 12:32 EAST 56 St. Rita 1,116 0.128 29.4 111	10/5/2023 12:32	EAST 56	St. Rita	1,116	0.128	29.4	111
10/5/2023 12:32 EAST 56 Marquette 1,035 0.173 22.7 116	10/5/2023 12:32	EAST 56	Marquette	1,035	0.173	22.7	116

10/5/2023 12:32	EAST 56	Berkeley	1,626	0.065	22.7	115
10/5/2023 9:19	EAST 55	Ellis	1,115	0.10	22.7	107
10/5/2023 9:19	EAST 55	St. Rita	971	0.095	26.3	110
10/5/2023 9:19	EAST 55	Marquette	1,172	0.113	11.6	113
10/5/2023 9:19	EAST 55	Berkeley	1,701	0.043	35.7	117

N/T - seismograph did not trigger

Ground Vibration (PPV) Limit - The Village of Caledonia explosives use ordinance states that "The maximum ground vibration at the location of any dwelling, public building, place of employment, school, church or community or institutional building outside or beyond the permitted explosives use area shall have a maximum peak-particle-velocity limit as provided by the Department, the scaled-distance equation of paragraph (ii), or the blasting level chart of paragraph (iii), whichever is applicable hereunder. Notwithstanding this general requirement, an annual permit holder who is subject to the limitations of paragraph (iii)a (Figure A, incorporated by herein reference), below, may exceed the limitation of Figure A on up to five percent (5%) of the blasts it initiates outing the six (6) month period from July 1 to December 31 and during the six (6) month period from January 1 to June 30 without violating this Section, provided that the ground vibration produced by such blasts does not exceed 0.65 inches per second or the limitations imposed by the Wisconsin Department of Industry, Labor and Human Relations in Section ILHR 7.64(4), Wis. Adm. Code, as amended from time to time, whichever is more stringent".

Airblast (AO) Limit - The Village of Caledonia explosives use ordinance states that "Airblast shall not exceed the maximum limits listed in Table A-1 at the location of any dwelling, public building, place of employment, school, church or community or institutional building outside and beyond the permitted explosives use area. Notwithstanding this general requirement, an annual permit holder subject to this limitation may exceed the limitation on up to five percent (5%) of the blasts it initiates during the six (6) month period from July 1 to December 31, and during the six (6) month period from January 1 to June 30, without violating this ordinance, provided that the airblast produced by such blasts does not exceed the limitations on airblast imposed by Wisconsin Department of Industry, Labor and Human Relations in Subsection ILHR 7.64(2), Wis. Adm. Code, as amended from time to time."

TABLE A-1 AIRBLAST

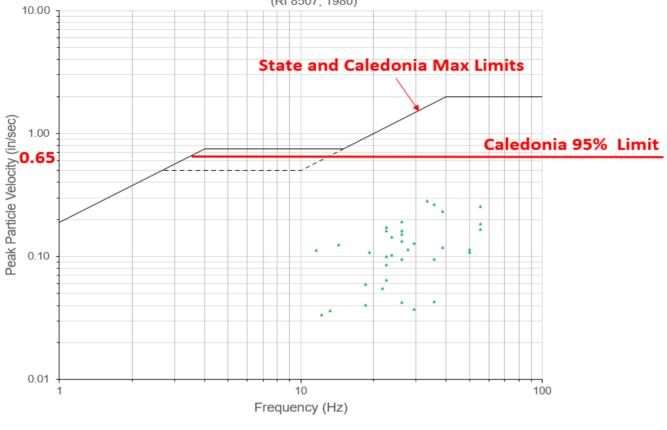
LIMITS

Lower Frequency Limit of Measuring System in Hz 2 Hz or lower -- Flat response 6 Hz or lower -- Flat response

Maximum Level in db 123 peak 129 peak

PPV vs. Frequency USBM Blasting Level Criteria (RI 8507, 1980)





- Drywall (0.75 ips) ---- Plaster (0.50 ips)