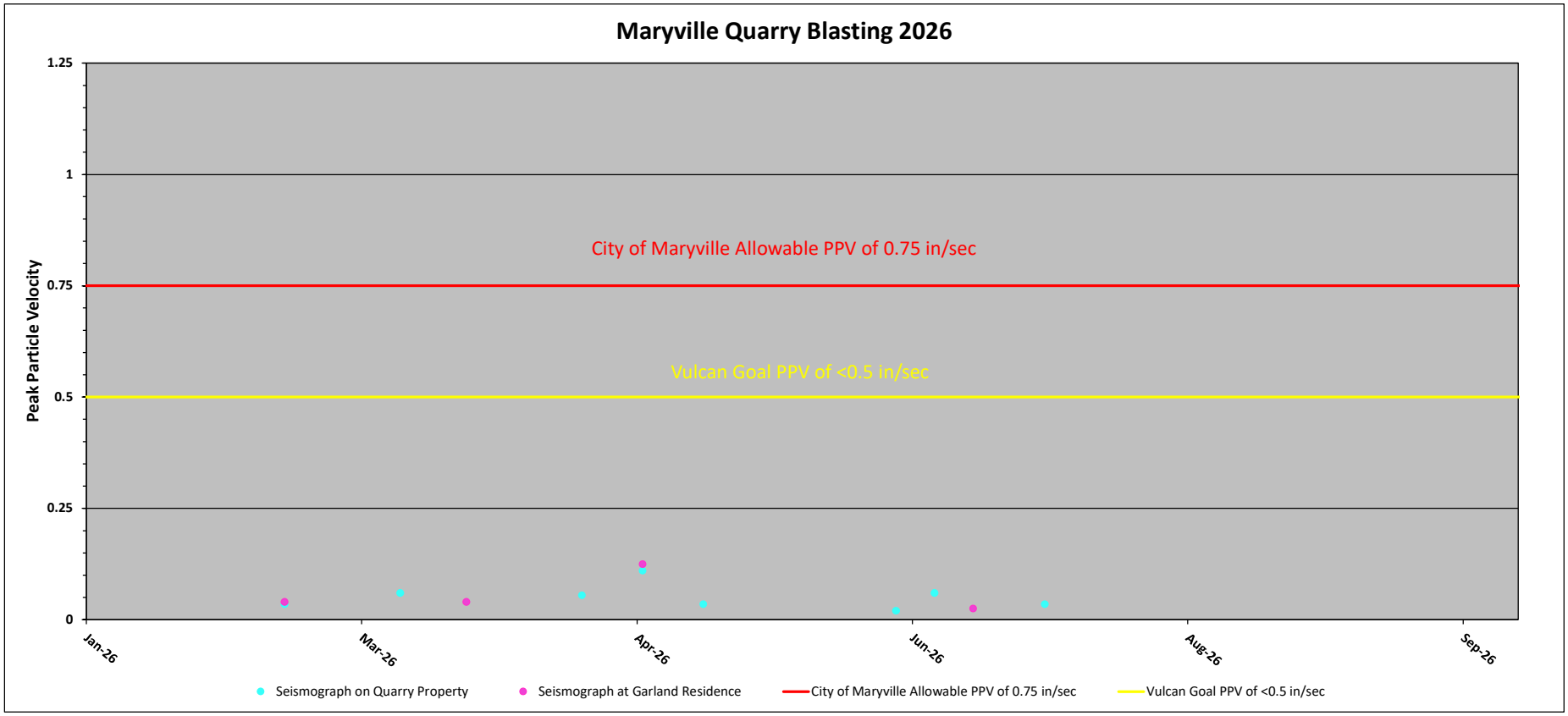
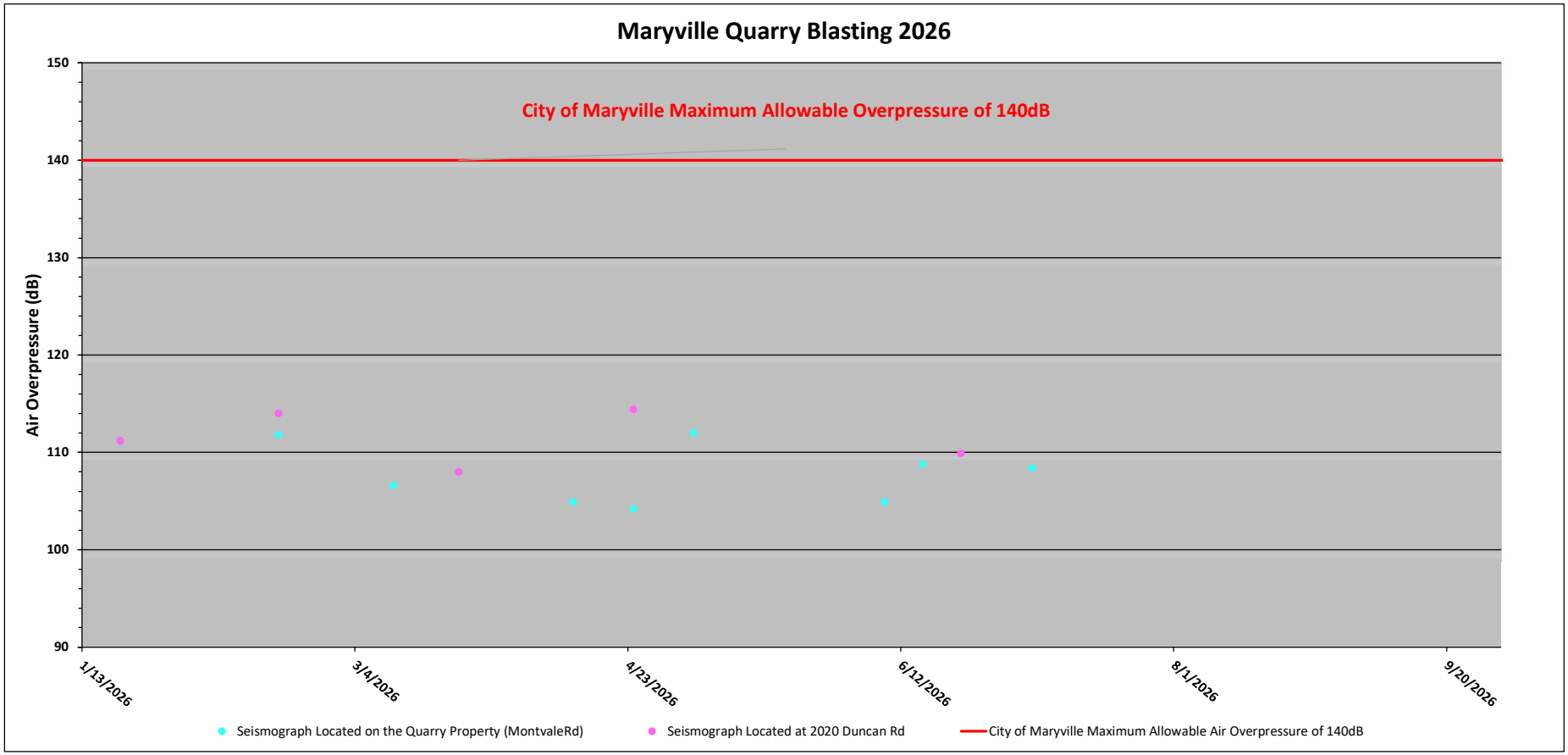
Report of Noise, Dust, and Blasting Monitoring
Vulcan Materials Company
Maryville Quarry

Blast Date	Time	Seismograph Located on the Quarry Property (MontvaleRd)		Seismograph Located at 2020 Duncan Rd	
		PPV	dB	PPV	dB
1/20/2026	14:08	NT	NT	0.055	111.2
2/18/2026	14:28	0.035	111.8	0.04	114
3/11/2026	13:52	0.06	106.6	NT	NT
3/18/2026	11:41	NT	NT	NT	NT
3/23/2026	11:05	NT	NT	0.04	108
3/31/2026	13:16	NT	NT	NT	NT
4/13/2026	12:12	0.055	104.9	NT	NT
4/24/2026	13:12	0.11	104.2	0.125	114.4
5/5/2026	13:06	0.035	112	NT	NT
5/27/2026	11:19	NT	NT	NT	NT
6/9/2026	12:06	0.02	104.9	NT	NT
6/16/2026	12:01	0.06	108.8	NT	NT
6/23/2026	12:47	NT	NT	0.025	109.9
7/6/2026	13:43	0.035	108.4	NT	NT
7/10/2026	11:02	NT	NT	NT	NT
8/5/2026	12:04	NT	NT	NT	NT
8/10/2026	12:35	NT	NT	NT	NT
8/12/2026	9:53	NT	NT	NT	NT
8/28/2026	11:13	NT	NT	NT	NT
9/4/2026	10:53	NT	NT	NT	NT
9/11/2026	13:11	NT	NT	NT	NT
9/15/2026	11:40	NT	NT	NT	NT
9/28/2026	12:33	NT	NT	NT	NT

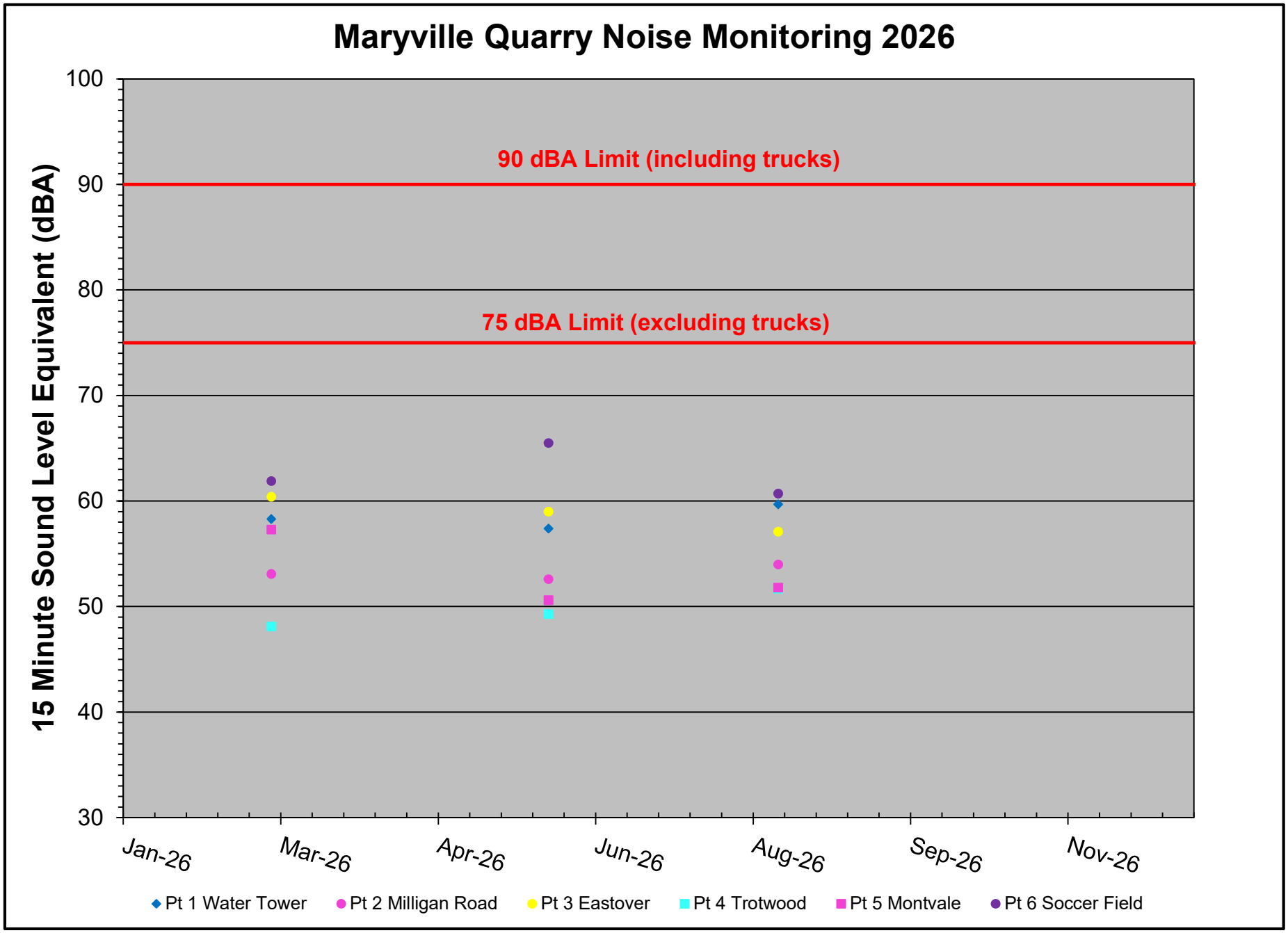
*N/T = Seismograph not triggered (PPV levels below detection level of seismograph)

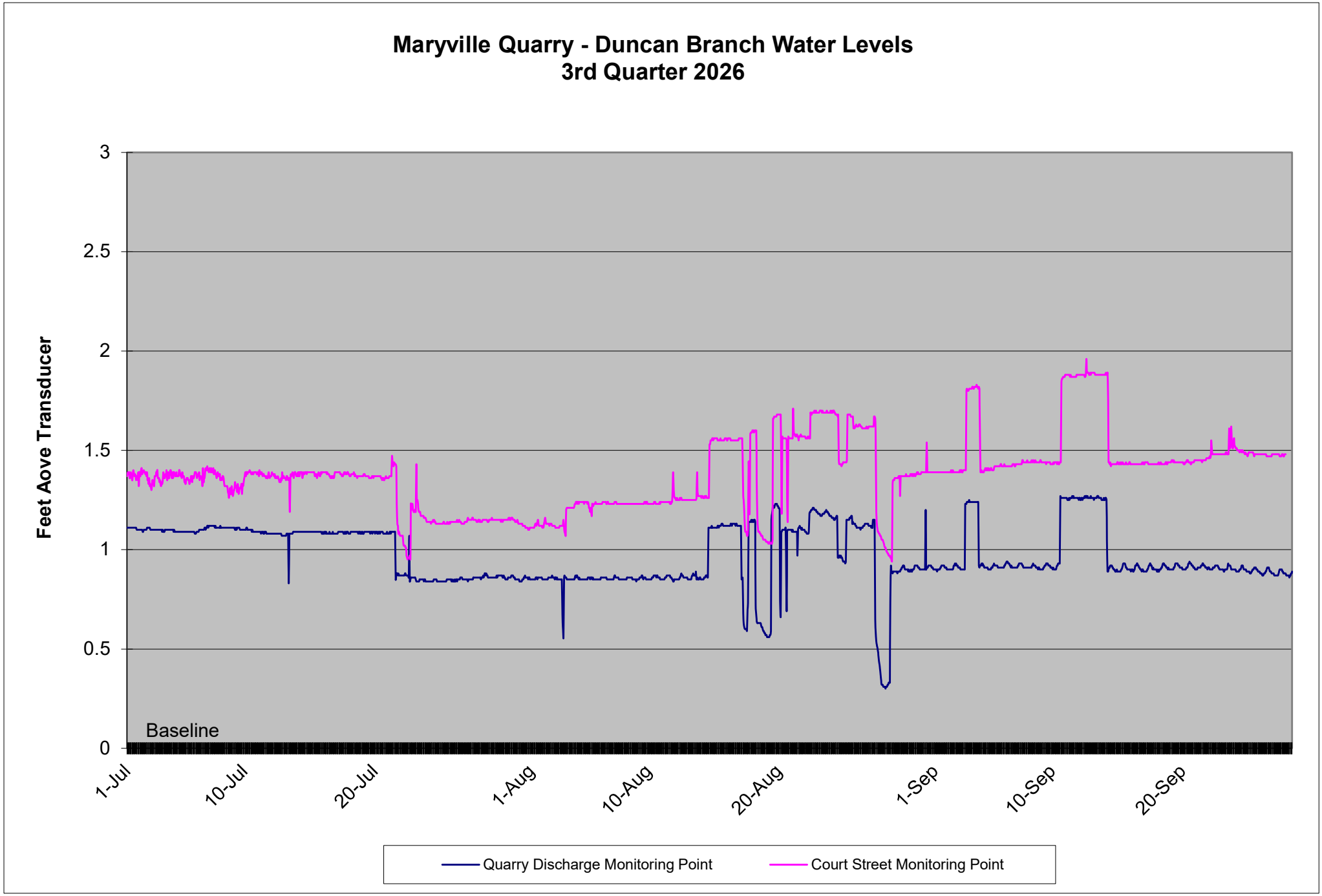

Maryville Quarry Blasting 2026
Peak Particle Velocity
1.25
1
0.75
0.5
0.25
0
City of Maryville Allowable PPV of 0.75 in/sec
Vulcan Goal PPV of <0.5 in/sec
Jan-26
Mar-26
Apr-26
Jun-26
Aug-26
Sep-26
Seismograph on Quarry Property
Seismograph at Garland Residence
City of Maryville Allowable PPV of 0.75 in/sec
Vulcan Goal PPV of <0.5 in/sec

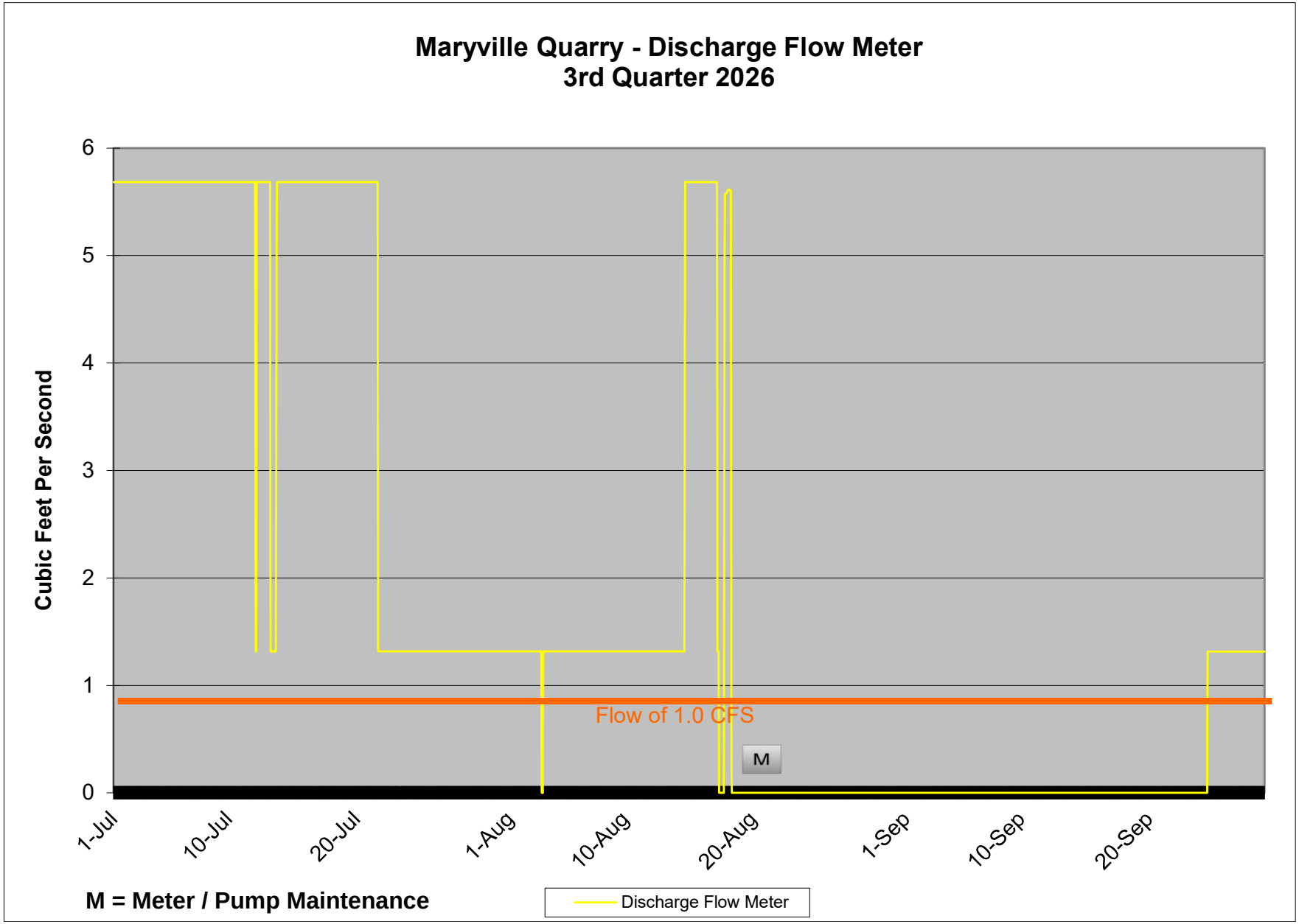

Maryville Quarry Blasting 2026
City of Maryville Maximum Allowable Overpressure of 140dB
Air Overpressure (dB)
150
140
130
120
110
100
90
1/13/2026
3/4/2026
4/23/2026
6/12/2026
8/1/2026
9/20/2026
Seismograph Located on the Quarry Property (MontvaleRd)
Seismograph Located at 2020 Duncan Rd
City of Maryville Maximum Allowable Air Overpressure of 140dB

Maryville Quarry Q3 Noise Monitoring Table 2026

Sample Location	Latitude	Longitude	Date	Start Time	End Time	Avg. Wind Speed (mph)	Wind Direction	% Cloud Cover	Sound Level (15 min. avg. dB)	Fugitive Dust Observed (Y or N)
#1 Water Tower	N35 43 58.8	W83 57 01.8	3/6/2026 6/2/2026 8/14/2026	7:55 9:17 7:46	8:10 9:32 8:01	3 5 2	ESE NE S	20 100 55%	58.3 57.4 59.7	N N N
#2 Milligan Rd	N35 43 40.1	W83 56 46.2	3/6/2026 6/2/2026 8/14/2026	8:15 9:38 8:06	8:30 9:53 8:21	2 5 2	SE NE S	35 80 30%	53.1 52.6 54	N N N
#3 Eastover	N35 43 30.4	W83 57 18.4	3/6/2026 6/2/2026 8/14/2026	8:41 10:00 8:28	8:56 10:15 8:43	1 6 3	ESE NE S	40 45 5%	60.4 59 57.1	N N N
#4 Trotwood	N35 43 43.3	W83 57 35.8	3/6/2026 6/2/2026 8/14/2026	9:13 10:29 8:54	9:28 10:44 9:09	1 6 3	E NE S	45 25 0	48.1 49.3 51.7	N N N
#5 Montvale Rd	N35 43 53.8	W83 57 53.7	3/6/2026 6/2/2026 8/14/2026	9:31 10:47 9:12	9:46 11:02 9:27	3 6 5	E NE SSW	45 5 0	57.3 50.6 51.8	N N N
#6 Soccer Field	N35 44 17.3	W83 57 13.4	3/6/2026 6/2/2026 8/14/2026	9:54 11:29 9:34	10:09 11:44 9:49	2 7 4	NNE NNE SW	45 10 0	61.9 65.5 60.7	N N N


Maryville Quarry Noise Monitoring 2026
15 Minute Sound Level Equivalent (dBA)
100
90
80
70
60
50
40
30
90 dBA Limit (including trucks)
75 dBA Limit (excluding trucks)
Jan-26
Mar-26
Apr-26
Jun-26
Aug-26
Sep-26
Nov-26
Pt 1 Water Tower
Pt 2 Milligan Road
Pt 3 Eastover
Pt 4 Trotwood
Pt 5 Montvale
Pt 6 Soccer Field


Maryville Quarry - Duncan Branch Water Levels
3rd Quarter 2026
Feet Aove Transducer
3
2.5
2
1.5
1
0.5
0
Baseline
1-Jul
10-Jul
20-Jul
1-Aug
10-Aug
20-Aug
1-Sep
10-Sep
20-Sep
Quarry Discharge Monitoring Point
Court Street Monitoring Point



Sinkhole identified on July 22, 2026 and Repaired August 3 - 5, 2026.