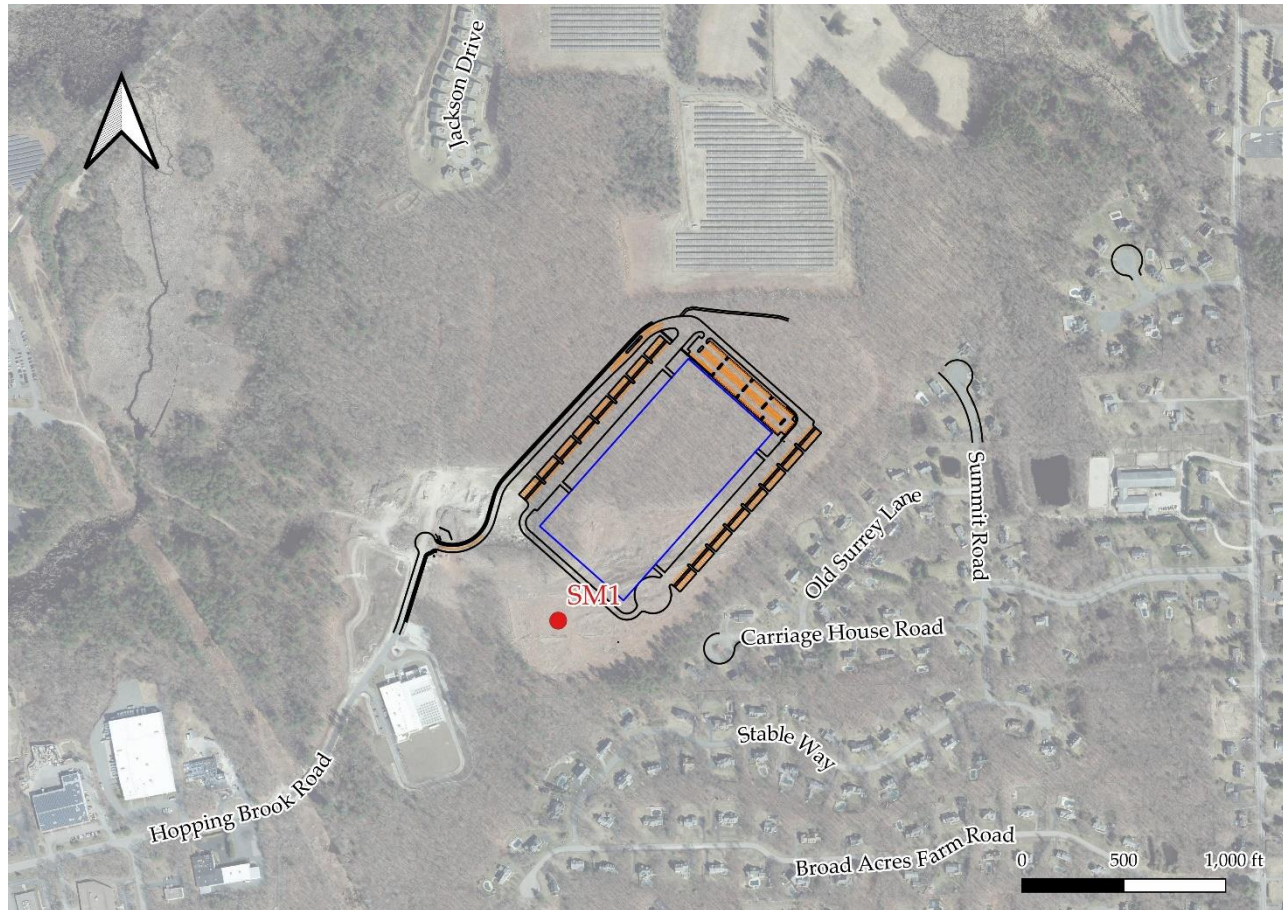


**Proposed Warehouse Sound Analysis
Hopping Brook Industrial Park
555 Hopping Brook Road, Holliston, MA**

Gregory C. Tocci, *Sr. Principal Consultant*
Bradley M. Dunkin, *Associate Principal Consultant*
Cavanaugh Tocci, Sudbury, Massachusetts

February 16, 2023

555 Hopping Brook Road, Holliston



Design Changes Affecting Noise

- ☐ Building 45 feet farther from residences
- ☐ Reduced loading dock area
- ☐ Driveway on west side only
- ☐ Restricted nighttime use of east loading dock
- ☐ Modified berm/barrier design

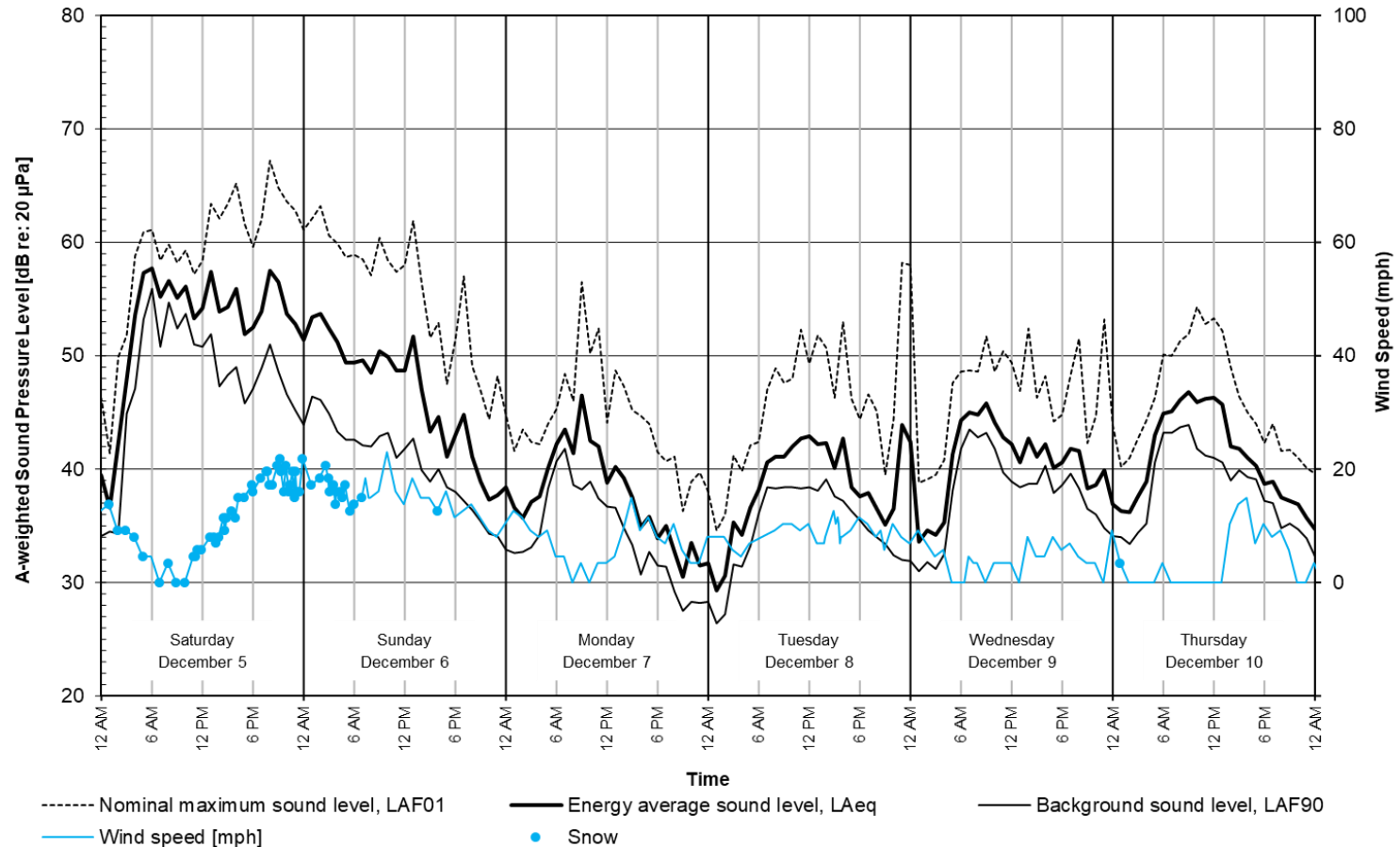
Summary of Limits

- ❑ Holliston 2015 Zoning Bylaw—50 dBA
(Legally binding to project stationary equipment and site activities)
- ❑ Holliston 2019 Zoning Bylaw—Same as MassDEP
(Same as MassDEP Noise Policy)
- ❑ Commonwealth of Massachusetts (310 CMR 7.10 U)—
Creating condition of noise not permitted
(Legally finding, no specific, measurable limits established)
- ❑ MassDEP Noise Policy—Not more than 10 dBA above
background, pure tone sound not permitted.
(Legally binding to project stationary equipment)
- ❑ Medway Zoning Bylaw—45 dBA
(Advisory only, not legally binding for Holliston projects)

Existing Ambient Sound Levels

Sound Levels Measured Southern Edge Near Residences (SM1)

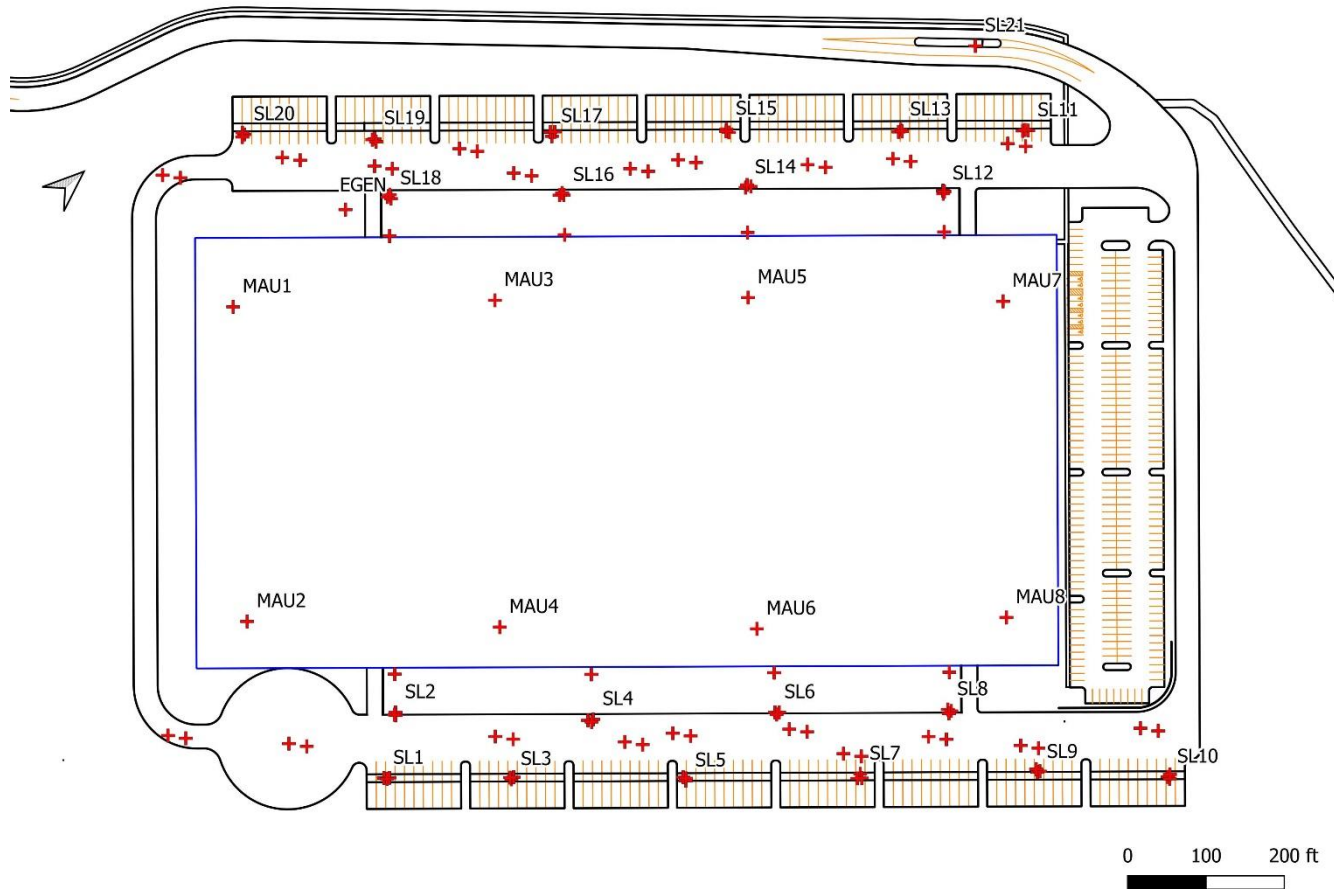
Holliston, MA (December 5 - December 12, 2020)



Computer Modeling Property Lines and Residences



Computer Modeling Sound Sources



Stationary Equipment Residences & Property Lines

Stationary Sources	R1	PL1	R2	PL2	R3	PL3	R4	PL4	R5	PL5	R6	PL6	R7	PL7	R8	PL8	R9	PL9	R10	PL1
Warehouse interior equipment	21	21	21	20	22	21	23	23	23	24	24	24	25	24	24	24	16	25	17	23
Rooftop make-up air unit	29	26	30	28	31	26	32	27	33	29	34	31	35	31	34	31	21	28	24	26
Emergency generator	9	10	10	9	10	10	11	11	11	11	12	13	13	13	14	13	19	29	27	24
Total Continuous	30	27	31	29	32	27	33	29	33	30	34	32	35	32	34	32	24	32	29	29
Holliston 2015 Zoning Bylaw	50																			
Holliston 2019 Zoning Bylaw	40																			
MassDEP Noise Policy	40																			
Medway Zoning Bylaw	45																			

Transient Activity Sound Residences & Property Lines

Transient Sources	R1	PL1	R2	PL2	R3	PL3	R4	PL4	R5	PL5	R6	PL6	R7	PL7	R8	PL8	R9	PL9	R10	PL10
Truck high idle	35	37	36	35	37	37	37	38	38	38	39	38	39	38	38	38	30	37	32	35
Backup alarm, tonal	35	37	33	33	36	38	37	38	37	38	39	39	40	39	38	38	30	37	32	35
Large truck pass-by	40	41	41	39	41	41	43	42	43	43	44	44	44	43	44	43	33	42	38	39
Med truck pass-by	36	37	37	36	37	37	39	39	39	40	40	40	40	39	40	39	29	38	34	35
Truck accelerating	41	33	33	34	33	30	31	30	31	30	32	31	33	31	32	30	35	42	36	40
Trailer disconnect	46	47	46	45	47	48	47	48	48	49	49	49	50	49	49	48	40	48	42	46

Peer Review

Chris Menge, HMMH

- ❑ The study “address(es) all pertinent state and local noise regulations and bylaw provisions.”
- ❑ “The noise model... and modeling approach were sufficiently detailed”
- ❑ “...sounds from the facility will not be notably louder than the common sounds in the community today.”