

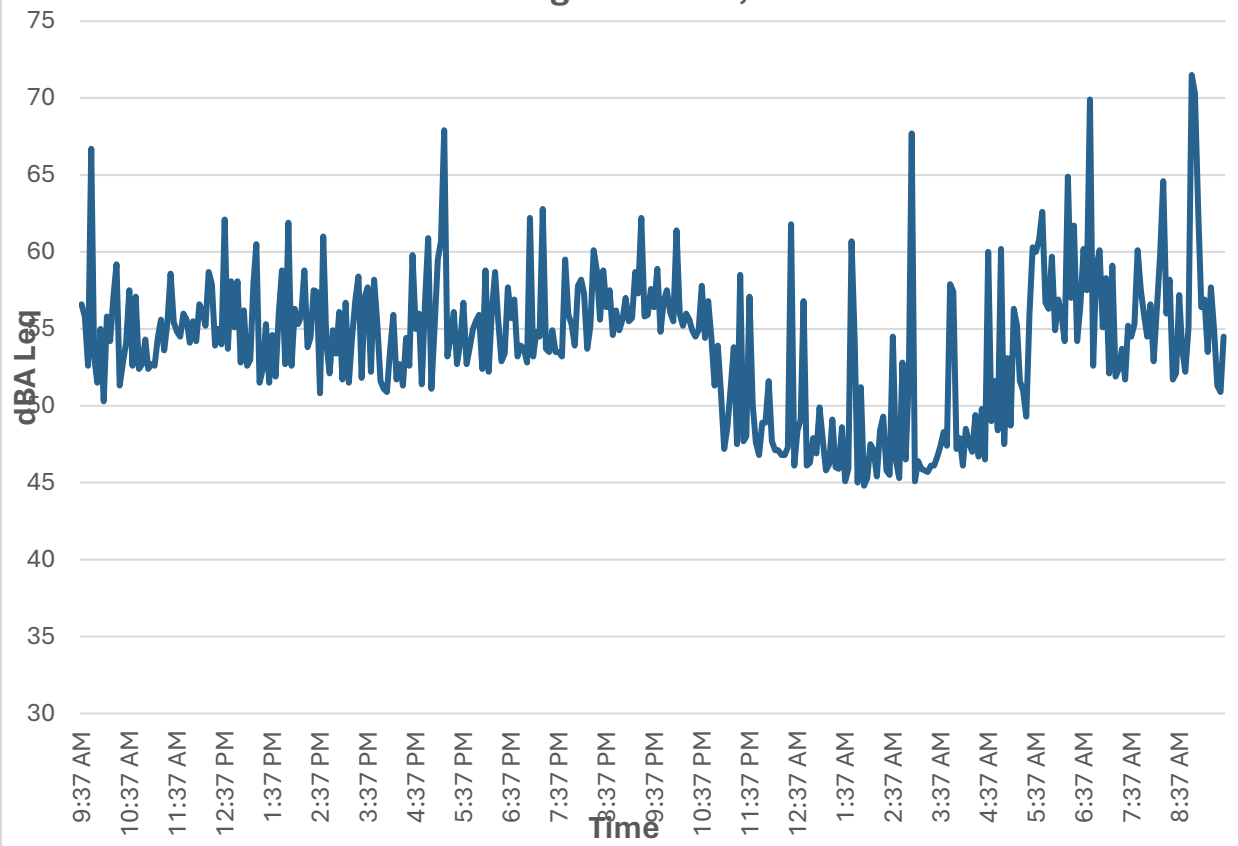
Appendix D

Noise Modeling and Technical Information

Attachment 1

Noise Measurement Data

LT-1 - August 15 - 16, 2022



Attachment 2

Roadway Construction Noise Model (RCNM) Data

Construction Noise

Distance	Noise Level @ 50 ft	Single Family Res to the SE	Lytton Garden Assisted Living	Single-Fam Res to the S
		25	70	45
Demolition	90	96.021	87.077	90.915
Site Preparation	81	87.021	78.077	81.915
Grading and Excavation	85	91.021	82.077	85.915
Building Construction	81	87.021	78.077	81.915
Paving	80	86.021	77.077	80.915
Architectural Coating	81	87.021	78.077	81.915

Construction Vibration

Distance	Vibration @ 25 ft	Single Family Res to the SE	Single Family Res to the NE	Single Family Res to the S
		10	15	45
Vibratory Roller	0.21	0.830	0.452	0.087
Large Bulldozer	0.089	0.352	0.191	0.037
Loaded Trucks	0.076	0.300	0.164	0.031
Static Roller	0.05	0.198	0.108	0.021
Small Bulldozer	0.003	0.012	0.006	0.001

Distance	Vibration @ 25 ft	Single Family Res to the NW	Single Family Res to the NE	Single Family Res to the S
		25	25	45
Vibratory Roller	0.21	0.210	0.210	0.087

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 02/21/2024
 Case Description: Site Preparation

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Site Preparation	Residential	65.0	55.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
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-----										-----		
Night	Day		Calculated (dBA)		Day		Evening		Night			
	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax		
Excavator	N/A	N/A	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A		
Front End Loader	N/A	N/A	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A		
		Total	80.7	79.0	N/A	N/A	N/A	N/A	N/A	N/A		

Attachment 3

HVAC - Carrier 24ABA4030



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