

**Appendix E:  
Noise Supporting Information**

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### On-Site Construction Activity

Receptor: Autumn Oak Dr. Residences

Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements											
No.	Equipment Description	Reference (dBA)	Quantity	Usage factor <sup>[1]</sup>	Distance to Receptor	Ground Effect <sup>[2]</sup>	Shielding (dBA) <sup>[3]</sup>	Calculated (dBA)		Energy	
		50 ft						Lmax	Leq		
1	Excavator	80.7	1	10	50	0	0	80.7	70.7	11748975.55	
2	Backhoe	77.6	1	10	50	0	0	77.6	67.6	5754399.373	
3	Ground Compactor	83.2	1	5	50	0	0	83.2	70.2	10446480.65	
4	Front End Loader	79.1	1	10	50	0	0	79.1	69.1	8128305.162	
5											
6											
7											
8											
9											
10											
								<b>Lmax<sup>[4]</sup></b>	<b>83</b>	<b>Leq</b>	<b>76</b>

Notes:

- [1] Percentage of time activity occurs each hour.
- [2] Assumes acoustically "hard" (i.e., reflective) terrain between project site and receptors.
- [3] Conservatively, no shielding is assumed between the project site and this receptor.
- [4] Calculated Lmax is the loudest value.

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