

California Public Utilities Commission
Pipeline Safety and Reliability Project –
New Natural Gas Line 3602 and De-rating Line 1600 (PSRP)

Appendix G
Construction Equipment Equivalent Sound Pressure Levels by
Distance
for
CEQA Master Environmental Assessment

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Construction Equipment Equivalent Sound Pressure Levels by Distance

Construction Activity	Equipment	Leq (dBA) per Unit by Distance (feet)			
		50	100	250	500
Mobilization	Flatbed Truck	80	74	66	60
	Lowboy	82	76	68	62
Composite Noise Level		84	78	70	64
Right-of-Way Preparation, Pipe Installation, Backfill, and Cleanup	Air Compressor	76	70	62	56
	Backhoe	76	70	62	56
	Bending Machine	82	76	68	62
	Bulldozer	81	75	67	61
	Crane	77	71	63	57
	Dump Truck	80	74	66	60
	Excavator	81	75	67	61
	Flatbed Truck	80	74	66	60
	Forklift	82	76	68	62
	Fuel Truck	82	76	68	62
	Generator	79	73	65	59
	Hydroexcavator	81	75	67	61
	Lowboy	82	76	68	62
	Mechanic Truck	82	76	68	62
	Pavement Saw	82	76	68	62
	Pick-up Truck	51	45	37	31
	Rock Drill	78	72	64	58
	Sandblaster	82	76	68	62
	Sideboom	82	76	68	62
	Street Sweeper	82	76	68	62
Stringing Truck	82	76	68	62	
Water Truck	82	76	68	62	
Welding Truck	82	76	68	62	
Wheel Loader	82	76	68	62	
Composite Noise Level		95	89	81	75
Paving	Dump Truck	80	74	66	60
	Grinding Machine	82	76	68	62
	Paving Machine	82	76	68	62
	Pick-up Truck	51	45	37	31
	Steamroller	82	76	68	62
	Street Sweeper	82	76	68	62
Composite Noise Level		89	83	75	69
Civil Work	Air Compressor	76	70	62	56
	Flatbed Truck	80	74	66	60
	Pick-up Truck	51	45	37	31
Composite Noise Level		81	75	67	61
Horizontal Bore	Air Compressor	76	70	62	56
	Boring Machine	74	68	60	54
	Crane	77	71	63	57
	Flatbed Truck	80	74	66	60
	Pick-up Truck	51	45	37	31
	Sandblaster	82	76	68	62
	Welding Truck	82	76	68	62
Composite Noise Level		87	81	73	67
Horizontal Directional Drill	Crane	77	71	63	57
	Forklift	82	76	68	62

Construction Equipment Equivalent Sound Pressure Levels by Distance

Construction Activity	Equipment	Leq (dBA) per Unit by Distance (feet)			
		50	100	250	500
	Generator	79	73	65	59
	Horizontal Directional Drilling Drill Rig	78	72	64	58
	Light Tower	82	76	68	62
	Mud Pump	74	68	60	54
	Pick-up Truck	51	45	37	31
	Water Pump	74	68	60	54
	Water Truck	82	76	68	62
	Composite Noise Level	89	83	75	69
Hydrotest	Air Compressor	76	70	62	56
	Crane	77	71	63	57
	Flatbed Truck	80	74	66	60
	Pick-up Truck	51	45	37	31
	Sideboom	82	76	68	62
	Water Pump	74	68	60	54
	Welding Truck	82	76	68	62
	Composite Noise Level	87	81	73	67
Demobilize	Flatbed Truck	80	74	66	60
	Lowboy	82	76	68	62
	Composite Noise Level	84	78	70	64

Sources:

Federal Highway Administration. 2006. *FHWA Roadway Construction Noise Model User's Guide*. Washington, D.C. Prepared for the U.S. Department of Transportation.

San Diego Gas & Electric Company and Southern California Gas Company. 2015. SDG&E and SoCalGas (San Diego Gas & Electric and Southern California Gas Company). 2015. Proponent's Environmental Assessment for the Pipeline Safety & Reliability Project. September 2015.

Key:

Leq = equivalent sound pressure level
dBA = A-weighted decibels