## **Project-Generated Construction Source Noise Prediction Model**

GBF / Pittsburg Landfill

Location	Distance to Nearest Receiver in feet	Combined Predicted Noise Level (Leq dBA)	Assumptions:	Reference Emission Noise Levels (Lmax) at 50 feet1	Usage Factor
Threshold*	350	60.0	Backhoe	78	0.4
	50	81.1	Dozer	82	0.4
	80	76.0	Excavator	81	0.4
	100	73.6			
	200	66.1			
	250	63.7			
	275	62.6			
	350	60.0	<b>Ground Type</b>	Soft	
	400	58.5	<b>Ground Factor</b>	0.50	
	450	57.3			
	500	56.1			
	550	55.1			
	600	54.1			
	2800	37.4	<b>Predicted Noise Level 2</b>	Leq dBA at 50 feet2	
			Dozer	72.0	
			Dozer	78.0	
			Excavator	77.0	
			Combined Predicted	l Noise Level (Leq dBA a	t 50 feet)
			81.1		
Sources:					
1 Obtained from the FHWA	Roadway Construction Noise Model, J	anuary 2006.	· · · ·		
	om the Federal Transit Noise and Vibrat	·			
-	(U.F.) - 20*log (D/50) - 10*G*log (D/50	-			
Where: E.L. = Emission Le	evel;				
J.F.= Usage Factor;					
	for topography and ground effects; and				
D = Distance from source to					