Appendix H NOISE MODELING AND DATA COLLECTION SHEETS

Biogas Renewable Generation Project - Source Information Summary

PWL Summary - 4 x Jenbacher J620 GS-16

Source	LEVELS AT OCTAVE BAND CENTER FREQUENCIES (Hz) / PWL (dB re 1 pW)									dBA	dBC	Comments, Data Origin
	31.5	63	125	250	500	1000	2000	4000	8000			
Generator Enclosure Walls (4 off)	117	116	116	105	97	96	91	92	94	**104**	**120**	Based on vendor data and enclosure with composite STC rating of 23 and NRC rating 0.85
Generator Enclosure Roof (4 off)	113	112	113	102	93	92	88	89	90	**101**	**116**	Based on vendor data and enclosure with composite STC rating of 23 and NRC rating 0.86
Generator Cooler Inlet (4 off)	107	111	108	105	102	98	93	90	87	**104**	**114**	Estimated for noise rating of 85 dBA @ 1 m
Generator Cooler Discharge (4 off)	107	110	106	103	99	95	90	86	83	**101**	**113**	Estimated for noise rating of 85 dBA @ 1 m
Engine Exhaust, 90 deg (4 off)	108	109	111	91	94	94	87	78	59	**99**	**114**	Estimated from vendor data with Hapco Supercritical Grade muffler
Engine Exhaust Muffler Case (4 off)	104	103	104	86	92	95	90	82	64	**98**	**108**	Estimated for Hapco Supercritical Grade muffler shell
Existing Landfill Vacuum Blower (2 off)	102	104	106	108	103	99	97	92	87	**105**	**112**	Estimated for 150-hp motor and 5.5" WG static pressure (90 dBA @ 1 m)
Flare Blower	104	108	105	106	99	96	93	88	80	**102**	**112**	Estimated for noise rating of 85 dBA @ 1 m
Stage 1 Landfill Gas Blower (2 off)	96	97	98	102	103	105	106	101	95	**110**	**111**	Estimated for 150-hp electrically driven, unenclosed screw or lobe compressor, noise rating: 78 dBA @ 50 feet
Stage 2 Landfill Gas Blower (2 off)	96	97	98	102	103	105	106	101	95	**110**	**111**	Estimated for 150-hp electrically driven, unenclosed screw or lobe compressor, noise rating: 78 dBA @ 50 feet
Stage 1 Blower Cooler	104	108	104	101	98	94	89	86	83	**100**	**111**	Estimated for noise rating of 85 dBA @ 1 m
Stage 2 Blower Cooler	107	111	107	104	101	97	92	89	86	**103**	**114**	Estimated from noise rating of 85 dBA @ 1 m
Chiller - Viter VSG-2101	99	105	105	121	114	105	98	91	85	**115**	**122**	Estimated based on field measurements of similar chiller, prorated for power, noise rating: 83 dBA @ 50 feet
Chiller Cooler	111	114	113	108	105	105	99	96	91	**109**	**118**	Estimated for noise rating of 85 dBA @ 1 m

Biogas Renewable Generation Project - Jenbacher Contour Plot

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