

TH000710004a		Noise Assessment 16th July 2004						Kilbride	
NOISE PREDICTION DUE TOTAL DEVELOPMENT									
Worst-case predicted noise levels due to composting, vehicle movements on-site and access road									
NSR1 -									
Phase	Activity	Total Effective LWA	Distance metres	Angle of View degrees	A of V Correction dB	Screening Correction dB	Soft Grd Correction dB	Total Correction dB	Total Resultant dB LAeq,1-hr
3	Construction	113.4	920	45	-6.0	-10.0	0.0	-16.0	30.1
2	Operation	118.9	1150	45	-6.0	-10.0	0.0	-16.0	33.7
1	Pumps/Fans	84.9	1300	45	-6.0	-10.0	0.0	-16.0	-1.4
	Haul Road	121.5	920	45	-6.0	-10.0	0.0	-16.0	28.9
	Noise from Operation								33.7
	Noise from next noisiest Phase								30.1
	Noise from Haul Road								28.9
	Total for these noise sources								36.2
	Correction for tonal/impulsive components								5.0
	Resultant with correction for tonal/impulsive components								41.2
	Background LA90								38.0
	Corrected Resultant minus Background								3.2

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NOISE PREDICTION DUE TOTAL DEVELOPMENT

Worst-case predicted noise levels due to composting, vehicle movements on-site and access road

NSR2

Phase	Activity	Total Effective LWA	Distance metres	Angle of View degrees	A of V Correction dB	Screening Correction dB	Soft Gnd Correction dB	Total Correction dB	Total Resultant dB LAeq,1-hr
3	Construction	113.4	880	45	-6.0	-10.0	0.0	-16.0	30.5
2	Operation	118.9	1130	45	-6.0	-10.0	0.0	-16.0	33.8
1	Pumps/Fans	84.9	1250	45	-6.0	-10.0	0.0	-16.0	-1.0
	Haul Road	121.5	880	45	-6.0	-10.0	0.0	-16.0	29.1
	Noise from Operation								33.8
	Noise from next noisiest Phase								30.5
	Noise from Haul Road								29.1
	Total for these noise sources								36.4
	Correction for tonal/impulsive components								5.0
	Resultant with correction for tonal/impulsive components								41.4
	Background LA90								36.0
	Corrected Resultant minus Background								5.4

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NOISE PREDICTION DUE TOTAL DEVELOPMENT

Worst-case predicted noise levels due to composting, vehicle movements on-site and access road

NSR3

Phase	Activity	Total Effective LWA	Distance metres	Angle of View degrees	A of V Correction dB	Screening Correction dB	Soft Gnd Correction dB	Total Correction dB	Total Resultant dB LAeq,1-hr
3	Construction	113.4	510	60	-4.8	-10.0	0.0	-14.8	36.4
2	Operation	118.9	650	60	-4.8	-10.0	0.0	-14.8	39.9
1	Pumps/Fans	84.9	740	60	-4.8	-10.0	0.0	-14.8	4.8
	Haul Road	121.5	650	60	-4.8	-10.0	0.0	-14.8	31.7
	Noise from Operation								39.9
	Noise from next noisiest Phase								36.4
	Noise from Haul Road								31.7
	Total for these noise sources								41.9
	Correction for tonal/impulsive components								5.0
	Resultant with correction for tonal/impulsive components								46.9
	Background LA90								38.0
	Corrected Resultant minus Background								8.9

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**Noise Assessment
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Kilbride

ENNISCOFFEY PLANT**Noise from Total Mobile Plant - Base Data**

Item of plant	Number	Source of Noise Data	Sound Power dB LWA	On-time %	Resultant Effective dB LWA
Construction					
Front Loading Shovel	1	BS5228-C.3/050	104.0	70	102.5
Tracked excavator	2	BS5228-C.3/24	108.0	60	108.8
35-tonne Dumptruck	2	BS5228-C.9/27	105.0	70	106.5
Roller	2	BS5228-C.3/63	112.0	20	108.0
Scraper	1	BS5228-C.3/87	112.0	10	102.0
Total Resultant Sound Power Level:					113.4
Operation					
Shredder	1	on-site data	116.0	80	115.0
Mixer	1	on-site data	103.0	80	102.0
Forklift truck	1	BS5228-C.3/050	104.0	50	101.0
Trommel (Screener)	2	on-site data	109.0	80	111.0
Front Loading Shovel (Grab)	1	on-site data	108.0	80	113.1
RCVs etc delivering waste	1	BS5228-C.7/122	112.0	50	115.0
Total Resultant Sound Power Level:					118.9
In vessel fan noise	1	Estimate	75.0	100	75.0
Leachate Treatment pumps	2	Estimate	83.0	70	84.5
Total Resultant Sound Power Level:					84.9
Haul Road					
Tractor & Bowser movement/hr:	1	BS5228-C11/053	112.0		112.0
RCVs etc delivering waste movement/hr:	8	BS5228-C7/122	112.0		121.0
Average vehicle speed(kph)	25				
Total Resultant Sound Power Level:					121.5