CLEVE HILL SOLAR PARK

ENVIRONMENTAL STATEMENT
VOLUME 4 - TECHNICAL APPENDIX A12.2
CONSTRUCTION CALCULATION SHEETS – HUMAN RECEPTORS

November 2018
Revision A

Document Reference: 6.4.12.2
APFP Regulation: 5(2)(a)

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CLEVE HILL
SOLAR PARK

Activity Hardstanding and Tracks

Receptor Name:	Nagden Barn
Receptor Height	4

Activity Level	37.9
Haulage Level	52.0
TOTAL	52.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	620	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	620	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	620	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	620	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-3.0	28.6	726
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-3.0	33.6	2290
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-3.0	29.6	912
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-13.0	33.6	2290
								Total:	**38**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	620	37	15	C.2/34	Haulage 40 t Lorry	109	52.0	0	0	180	0.0	52.0	158387
											Total:	**52.0**	

Activity Manoeuvering Piling Plant

Receptor Name:	Nagden Barn
Receptor Height	4

Activity Level	54.9
Haulage Level	52.0
TOTAL	56.7

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	120	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	120	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	620	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
53.0	53.0	49.6	Ks (Hs or Hr > 2.5)	3.25	-0.20	Soft Ground / No Barrier	52.8	-3.0	54.2	264498
53.0	53.0	49.6	Ks (Hs or Hr > 2.5)	3.25	-0.20	Soft Ground / No Barrier	52.8	-3.0	46.2	42020
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-13.0	33.6	2290
								Total:	**55**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	620	37	15	C.2/34	Haulage 40 t Lorry	109	52.0	0	0	180	0.0	52.0	158387
											Total:	**52.0**	

Activity **Active Piling**

Receptor Name:	Nagden Barn
Receptor Height	4

Activity Level	68.9
Haulage Level	52.0
TOTAL	69.0

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	120	2.5	4	100	110	50	0	0
Pauselli 500	Pier	4	110	1	120	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	620	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
53.0	53.0	49.6	Ks (Hs or Hr > 2.5)	3.25	-0.20	Soft Ground / No Barrier	52.8	-3.0	54.2	264498
53.0	53.0	49.6	Ks (Hs or Hr > 2.5)	5	-0.68	Soft Ground / No Barrier	52.3	-3.0	68.7	7430106
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-13.0	33.6	2290
								Total:	**69**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	620	37	15	C.2/34	Haulage 40 t Lorry	109	52.0	0	0	180	0.0	52.0	158387
											Total:	**52.0**	

Activity **PV Panel Installation**

Receptor Name:	Nagden Barn
Receptor Height	4

Activity Level	54.3
Haulage Level	52.0
TOTAL	56.3

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	120	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	620	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
53.0	53.0	49.6	Ks (Hs or Hr > 2.5)	3.25	-0.20	Soft Ground / No Barrier	52.8	-3.0	54.2	264498
70.8	70.8	63.8	Ks (Hs or Hr > 2.5)	3.25	-0.42	Soft Ground / No Barrier	70.4	-13.0	33.6	2290
								Total:	**54**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	620	37	15	C.2/34	Haulage 40 t Lorry	109	52.0	0	0	180	0.0	52.0	158387
											Total:	**52.0**	

Activity Electrical Compound Installation

Receptor Name:	Nagden Barn
Receptor Height	4

Activity Level	28.2
Haulage Level	52.0
TOTAL	52.0

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	1635	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	1635	2.5	4	100	117	5	0	0
Table C4, item 50	Tracked Mobile Crane	1	71	10	1635	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
81.3	81.3	72.3	Ks (Hs or Hr > 2.5)	3.25	-0.54	Soft Ground / No Barrier	80.8	-3.0	26.2	417
81.3	81.3	72.3	Ks (Hs or Hr > 2.5)	3.25	-0.54	Soft Ground / No Barrier	80.8	-13.0	23.2	209
81.3	81.3	72.3	Ks (Hs or Hr > 2.5)	3.25	-0.54	Soft Ground / No Barrier	80.8	-3.0	15.2	33
								Total:	**28**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	620	37	15	C.2/34	Haulage 40 t Lorry	109	52.0	0	0	180	0.0	52.0	158387
											Total:	**52.0**	

Activity Hardstanding and Tracks

Receptor Name:	Nagden House
Receptor Height	4

Activity Level	36.1
Haulage Level	51.3
TOTAL	51.4

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	735	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	735	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	735	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	735	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
72.7	72.7	65.3	Ks (Hs or Hr > 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-3.0	26.8	477
72.7	72.7	65.3	Ks (Hs or Hr > 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-3.0	31.8	1504
72.7	72.7	65.3	Ks (Hs or Hr > 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-3.0	27.8	599
72.7	72.7	65.3	Ks (Hs or Hr > 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-13.0	31.8	1504
								Total:	**36**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	735	37	15	C.2/34	Haulage 40 t Lorry	109	51.3	0	0	180	0.0	51.3	133605
											Total:	**51.3**	

Activity **Manoeuvering Piling Plant**

Receptor Name:	**Nagden House**
Receptor Height	**4**

Activity Level	**51.8**
Haulage Level	**51.3**
TOTAL	**54.6**

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	160	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	160	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	735	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
56.1	56.1	52.1	Ks (Hs or Hr > 2.5)	3.25	-0.24	Soft Ground / No Barrier	55.9	-3.0	51.1	129964
56.1	56.1	52.1	Ks (Hs or Hr > 2.5)	3.25	-0.24	Soft Ground / No Barrier	55.9	-3.0	43.1	20647
72.7	72.7	65.3	Ks (Hs or Hr > 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-13.0	31.8	1504
								Total:	**52**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	735	37	15	C.2/34	Haulage 40 t Lorry	109	51.3	0	0	180	0.0	51.3	133605
											Total:	**51.3**	

Activity **Active Piling**

Receptor Name:	**Nagden House**
Receptor Height	**4**

Activity Level	**65.9**
Haulage Level	**51.3**
TOTAL	**66.0**

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	160	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	160	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	735	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
56.1	56.1	52.1	Ks (Hs or Hr > 2.5)	3.25	-0.24	Soft Ground / No Barrier	55.9	-3.0	51.1	129964
56.1	56.1	52.1	Ks (Hs or Hr > 2.5)	5	-0.80	Soft Ground / No Barrier	55.3	-3.0	65.7	3725135
72.7	72.7	65.3	Ks (Hs or Hr > 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-13.0	31.8	1504
								Total:	**66**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	735	37	15	C.2/34	Haulage 40 t Lorry	109	51.3	0	0	180	0.0	51.3	133605
											Total:	**51.3**	

Activity **PV Panel Installation**

Receptor Name:	Nagden House	Activity Level	51.2
Receptor Height	4	Haulage Level	51.3
		TOTAL	54.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C6, Item 54	Telehandler	2	79	10	160	2.5	4	100	110	50	0	0
Table C6, Item 36	Diesel Bowser	1	89	10	160	2.5	4	100	117	5	0	0
Table C6, Item 50	Tracked Mobile Crane	1	71	10	735	2.5	4	100	117	5	0	0
								Total:	-			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{eq,T}$	Anti log
81.6	81.6	72.5	Ks (Hs or Hr < 2.5)	3.25	-0.55	Soft Ground / No Barrier	81.1	-3.0	25.9	393
81.6	81.6	72.5	Ks (Hs or Hr < 2.5)	3.25	-0.55	Soft Ground / No Barrier	81.1	-13.0	22.9	197
81.6	81.6	72.5	Ks (Hs or Hr > 2.5)	3.25	-0.55	Soft Ground / No Barrier	81.1	-3.0	14.9	31
								Total:	28	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Facade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	735	37	15	C.2/34	Haulage 40 t Lorry	109	51.3	0	0	180	0.0	51.3	133605
											Total:	51.3	

Activity **PV Panel Installation**

Receptor Name:	Nagden House	Activity Level	51.2
Receptor Height	4	Haulage Level	51.3
		TOTAL	54.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C6, Item 54	Telehandler	2	79	10	160	2.5	4	100	110	50	0	0
Table C6, Item 36	Diesel Bowser	1	89	10	735	2.5	4	100	117	5	0	0
								Total:	-			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{eq,T}$	Anti Log
56.1	56.1	52.1	Ks (Hs or Hr > 2.5)	3.25	-0.24	Soft Ground / No Barrier	55.9	-3.0	51.1	129964
72.7	72.7	65.3	Ks (Hs or Hr < 2.5)	3.25	-0.44	Soft Ground / No Barrier	72.2	-13.0	31.8	1504
								Total:	51	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Facade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	735	37	15	C.2/34	Haulage 40 t Lorry	109	51.3	0	0	180	0.0	51.3	133605
											Total:	51.3	

Activity **Hardstanding and Tracks**

Receptor Name:	Nagden Cottages
Receptor Height	4

Activity Level	35.2
Haulage Level	50.9
TOTAL	51.0

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	800	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	800	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	800	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	800	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-3.0	25.9	387
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-3.0	30.9	1220
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-3.0	26.9	486
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-13.0	30.9	1220
								Total:	**35**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	800	37	15	C.2/34	Haulage 40 t Lorry	109	50.9	0	0	180	0.0	50.9	122750
											Total:	**50.9**	

Activity **Manoeuvering Piling Plant**

Receptor Name:	Nagden Cottages
Receptor Height	4

Activity Level	52.9
Haulage Level	50.9
TOTAL	55.0

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	145	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	145	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	800	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
55.0	55.0	51.2	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	54.8	-3.0	52.2	165738
55.0	55.0	51.2	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	54.8	-3.0	44.2	26330
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-13.0	30.9	1220
								Total:	**53**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	800	37	15	C.2/34	Haulage 40 t Lorry	109	50.9	0	0	180	0.0	50.9	122750
											Total:	**50.9**	

Activity **Active Piling**

Receptor Name: Nagden Cottages
Receptor Height 4

Activity Level	66.9
Haulage Level	50.9
TOTAL	67.0

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	145	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	145	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	800	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
55.0	55.0	51.2	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	54.8	-3.0	52.2	165738
55.0	55.0	51.2	Ks (Hs or Hr > 2.5)	5	-0.76	Soft Ground / No Barrier	54.3	-3.0	66.7	4717879
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-13.0	30.9	1220
								Total:	**67**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	800	37	15	C.2/34	Haulage 40 t Lorry	109	50.9	0	0	180	0.0	50.9	122750
											Total:	**50.9**	

Activity **PV Panel Installation**

Receptor Name: Nagden Cottages
Receptor Height 4

Activity Level	52.2
Haulage Level	50.9
TOTAL	54.6

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	145	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	800	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
55.0	55.0	51.2	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	54.8	-3.0	52.2	165738
73.6	73.6	66.1	Ks (Hs or Hr > 2.5)	3.25	-0.45	Soft Ground / No Barrier	73.1	-13.0	30.9	1220
								Total:	**52**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	800	37	15	C.2/34	Haulage 40 t Lorry	109	50.9	0	0	180	0.0	50.9	122750
											Total:	**50.9**	

Activity Electrical Compound Installation

Receptor Name:	Nagden Cottages
Receptor Height	4

Activity Level	28.4
Haulage Level	50.9
TOTAL	50.9

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	1610	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	1610	2.5	4	100	117	5	0	0
Table C4, item 50	Tracked Mobile Crane	1	71	10	1610	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
81.2	81.2	72.1	Ks (Hs or Hr > 2.5)	3.25	-0.54	Soft Ground / No Barrier	80.6	-3.0	26.4	434
81.2	81.2	72.1	Ks (Hs or Hr > 2.5)	3.25	-0.54	Soft Ground / No Barrier	80.6	-13.0	23.4	217
81.2	81.2	72.1	Ks (Hs or Hr > 2.5)	3.25	-0.54	Soft Ground / No Barrier	80.6	-3.0	15.4	34
								Total:	**28**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T_r dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T_r dB	Anti Log
1	800	37	15	C.2/34	Haulage 40 t Lorry	109	50.9	0	0	180	0.0	50.9	122750
											Total:	**50.9**	

Activity Hardstanding and Tracks

Receptor Name:	Warm House
Receptor Height	4

Activity Level	36.6
Haulage Level	51.5
TOTAL	51.6

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	700	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	700	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	700	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	700	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-3.0	27.3	538
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-3.0	32.3	1697
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-3.0	28.3	675
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-13.0	32.3	1697
								Total:	**37**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T_r dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T_r dB	Anti Log
1	700	37	15	C.2/34	Haulage 40 t Lorry	109	51.5	0	0	180	0.0	51.5	140285
											Total:	**51.5**	

Activity | **Manoeuvering Piling Plant**

Receptor Name:	**Warm House**
Receptor Height	**4**

Activity Level	**59.2**
Haulage Level	**51.5**
TOTAL	**59.9**

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	80	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	80	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	700	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	58.6	720058
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	50.6	114393
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-13.0	32.3	1697
								Total:	**59**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	700	37	15	C.2/34	Haulage 40 t Lorry	109	51.5	0	0	180	0.0	51.5	140285
											Total:	**51.5**	

Activity | **Active Piling**

Receptor Name:	**Warm House**
Receptor Height	**4**

Activity Level	**72.8**
Haulage Level	**51.5**
TOTAL	**72.8**

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	80	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	80	2.5	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	700	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	58.6	720058
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	72.6	18129997
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-13.0	32.3	1697
								Total:	**73**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	700	37	15	C.2/34	Haulage 40 t Lorry	109	51.5	0	0	180	0.0	51.5	140285
											Total:	**51.5**	

Activity **PV Panel Installation**

Receptor Name: **Warm House**
Receptor Height **4**

	Activity Level	58.6
	Haulage Level	51.5
	TOTAL	59.4

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C4, Item 54	Telehandler	2	79	10	80	2.5	4	100	110	50	0	0
Table C4, Item 36	Diesel Bowser	1	89	10	700	2.5	4	100	117	5	0	0
Table C5, Item 50	Tracked Mobile Crane	1	71	10	700	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{aeq,T}$	Anti log
76.7	76.7	68.6	Ks (Hs or Hr < 2.5)	3.25	-0.49	Soft Ground / No Barrier	76.2	-3.0	30.8	1190
76.7	76.7	68.6	Ks (Hs or Hr < 2.5)	3.25	-0.49	Soft Ground / No Barrier	76.2	-13.0	27.7	595
76.7	76.7	68.6	Ks (Hs or Hr > 2.5)	3.25	-0.49	Soft Ground / No Barrier	76.2	-3.0	19.7	94
								Total:	**33**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Facade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	700	37	15	C.2/34	Haulage 40 t Lorry	109	51.5	0	0	180	0.0	51.5	140285
											Total:	**51.5**	

Activity **Electrical Compound Installation**

Receptor Name: **Warm House**
Receptor Height **4**

	Activity Level	32.7
	Haulage Level	51.5
	TOTAL	51.5

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C4, Item 54	Telehandler	2	79	10	1070	2.5	4	100	110	50	0	0
Table C4, Item 36	Diesel Bowser	1	89	10	1070	2.5	4	100	117	5	0	0
Table C4, Item 50	Tracked Mobile Crane	1	71	10	1070	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{aeq,T}$	Anti Log
48.6	46.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	46.4	-3.0	58.6	720058
72.1	72.1	64.9	Ks (Hs or Hr > 2.5)	3.25	-0.43	Soft Ground / No Barrier	71.7	-13.0	32.3	1697
								Total:	**59**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Facade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	700	37	15	C.2/34	Haulage 40 t Lorry	109	51.5	0	0	180	0.0	51.5	140285
											Total:	**51.5**	

Activity Hardstanding and Tracks

Receptor Name:	Coneybank
Receptor Height	4

Activity Level	33.4
Haulage Level	50.1
TOTAL	50.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	950	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	950	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	950	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	950	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-3.0	24.0	253
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-3.0	29.0	798
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-3.0	25.0	318
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-13.0	29.0	798
								Total:	**33**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	950	37	15	C.2/34	Haulage 40 t Lorry	109	50.1	0	0	180	0.0	50.1	103368
											Total:	**50.1**	

Activity Manoeuvering Piling Plant

Receptor Name:	Coneybank
Receptor Height	4

Activity Level	50.8
Haulage Level	50.1
TOTAL	53.5

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	175	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	950	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	50.2	104159
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	42.2	16947
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-13.0	29.0	798
								Total:	**51**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	950	37	15	C.2/34	Haulage 40 t Lorry	109	50.1	0	0	180	0.0	50.1	103368
											Total:	**50.1**	

Activity **Active Piling**

Receptor Name: Coneybank
Receptor Height 4

Activity Level	64.9
Haulage Level	50.1
TOTAL	65.1

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	175	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	950	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	50.2	104159
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	5	-0.84	Soft Ground / No Barrier	56.2	-3.0	64.8	3004268
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-13.0	29.0	798
								Total:	**65**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	950	37	15	C.2/34	Haulage 40 t Lorry	109	50.1	0	0	180	0.0	50.1	103368
											Total:	**50.1**	

Activity **PV Panel Installation**

Receptor Name: Coneybank
Receptor Height 4

Activity Level	50.2
Haulage Level	50.1
TOTAL	53.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	950	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	50.2	104159
75.4	75.4	67.6	Ks (Hs or Hr > 2.5)	3.25	-0.47	Soft Ground / No Barrier	75.0	-13.0	29.0	798
								Total:	**50**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	950	37	15	C.2/34	Haulage 40 t Lorry	109	50.1	0	0	180	0.0	50.1	103368
											Total:	**50.1**	

Activity | **Electrical Compound Installation**

Receptor Name: Coneybank
Receptor Height 4

Activity Level	32.8
Haulage Level	50.1
TOTAL	50.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	1065	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	1065	2.5	4	100	117	5	0	0
Table C4, item 50	Tracked Mobile Crane	1	71	10	1065	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
76.7	76.7	68.5	Ks (Hs or Hr > 2.5)	3.25	-0.49	Soft Ground / No Barrier	76.2	-3.0	30.8	1204
76.7	76.7	68.5	Ks (Hs or Hr > 2.5)	3.25	-0.49	Soft Ground / No Barrier	76.2	-13.0	27.8	602
76.7	76.7	68.5	Ks (Hs or Hr > 2.5)	3.25	-0.49	Soft Ground / No Barrier	76.2	-3.0	19.8	95
								Total:	**33**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T_r dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T_r dB	Anti Log
1	950	37	15	C.2/34	Haulage 40 t Lorry	109	50.1	0	0	180	0.0	50.1	103368
											Total:	**50.1**	

Activity | **Hardstanding and Tracks**

Receptor Name: 1 Crown Cottage
Receptor Height 4

Activity Level	57.3
Haulage Level	60.6
TOTAL	62.3

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	85	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	85	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	85	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
49.2	49.2	46.6	Ks (Hs or Hr > 2.5)	3.25	-0.16	Soft Ground / No Barrier	49.1	-3.0	49.9	98251
49.2	49.2	46.6	Ks (Hs or Hr > 2.5)	3.25	-0.16	Soft Ground / No Barrier	49.1	-3.0	54.9	309960
49.2	49.2	46.6	Ks (Hs or Hr > 2.5)	3.25	-0.16	Soft Ground / No Barrier	49.1	-3.0	50.9	123397
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**57**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T_r dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T_r dB	Anti Log
1	85	37	15	C.2/34	Haulage 40 t Lorry	109	60.6	0	0	180	0.0	60.6	1155291
											Total:	**60.6**	

Activity | **Manoeuvering Piling Plant**

Receptor Name: 1 Crown Cottage
Receptor Height 4

Activity Level	52.6
Haulage Level	60.6
TOTAL	61.3

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	150	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	150	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
55.4	55.4	51.5	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	55.2	-3.0	51.8	152424
55.4	55.4	51.5	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	55.2	-3.0	43.8	24215
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**53**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	85	37	15	C.2/34	Haulage 40 t Lorry	109	60.6	0	0	180	0.0	60.6	1155291
											Total:	**60.6**	

Activity | **Active Piling**

Receptor Name: 1 Crown Cottage
Receptor Height 4

Activity Level	66.5
Haulage Level	60.6
TOTAL	67.5

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	150	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	150	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
55.4	55.4	51.5	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	55.2	-3.0	51.8	152424
55.4	55.4	51.5	Ks (Hs or Hr > 2.5)	5	-0.78	Soft Ground / No Barrier	54.6	-3.0	66.4	4349216
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**67**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	85	37	15	C.2/34	Haulage 40 t Lorry	109	60.6	0	0	180	0.0	60.6	1155291
											Total:	**60.6**	

Activity **PV Panel Installation**

Receptor Name: **1 Crown Cottage**
Receptor Height **4**

Activity Level	45.9
Haulage Level	60.6
TOTAL	61.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C4, Item 54	Telehandler	2	79	10	150	2.5	4	100	110	50	0	0
Table C4, Item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
Table C5, Item 50	Tracked Mobile Crane	1	71	10	280	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{aeq,T}$	Anti log
62.2	56.9	56.9	Ks (Hs or Hr < 2.5)	3.25	-0.31	Soft Ground / No Barrier	61.9	-3.0	45.1	32623
68.5	62.0	62.0	Ks (Hs or Hr < 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
62.2	62.2	56.9	Ks (Hs or Hr > 2.5)	3.25	-0.31	Soft Ground / No Barrier	61.9	-3.0	34.1	2585
								Total:	**46**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Facade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	85	37	15	C.2/34	Haulage 40 t Lorry	109	60.6	0	0	180	0.0	60.6	1155291
											Total:	**60.6**	

Activity **Electrical Compound Installation**

Receptor Name: **1 Crown Cottage**
Receptor Height **4**

Activity Level	51.9
Haulage Level	60.6
TOTAL	61.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C4, Item 54	Telehandler	2	79	10	150	2.5	4	100	110	50	0	0
Table C5, Item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{aeq,T}$	Anti Log
55.4	55.4	51.5	Ks (Hs or Hr > 2.5)	3.25	-0.23	Soft Ground / No Barrier	55.2	-3.0	51.8	152424
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**52**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Facade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	85	37	15	C.2/34	Haulage 40 t Lorry	109	60.6	0	0	180	0.0	60.6	1155291
											Total:	**60.6**	

Activity Hardstanding and Tracks

Receptor Name: 4 Crown Cottage
Receptor Height 4

Activity Level	57.9
Haulage Level	60.9
TOTAL	62.7

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	80	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	80	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	80	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	50.6	114122
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	55.6	360029
48.6	48.6	46.1	Ks (Hs or Hr > 2.5)	3.25	-0.15	Soft Ground / No Barrier	48.4	-3.0	51.6	143330
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**58**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	80	37	15	C.2/34	Haulage 40 t Lorry	109	60.9	0	0	180	0.0	60.9	1227497
											Total:	**60.9**	

Activity Manoeuvering Piling Plant

Receptor Name: 4 Crown Cottage
Receptor Height 4

Activity Level	51.3
Haulage Level	60.9
TOTAL	61.3

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	170	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	170	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
56.8	56.8	52.6	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.5	-3.0	50.5	111890
56.8	56.8	52.6	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.5	-3.0	42.5	17775
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**51**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	80	37	15	C.2/34	Haulage 40 t Lorry	109	60.9	0	0	180	0.0	60.9	1227497
											Total:	**60.9**	

Activity **Active Piling**

Receptor Name: 4 Crown Cottage
Receptor Height 4

Activity Level	65.2
Haulage Level	60.9
TOTAL	66.6

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	170	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	170	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
56.8	56.8	52.6	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.5	-3.0	50.5	111890
56.8	56.8	52.6	Ks (Hs or Hr > 2.5)	5	-0.83	Soft Ground / No Barrier	55.9	-3.0	65.1	3220717
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**65**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	80	37	15	C.2/34	Haulage 40 t Lorry	109	60.9	0	0	180	0.0	60.9	1227497
											Total:	**60.9**	

Activity **PV Panel Installation**

Receptor Name: 4 Crown Cottage
Receptor Height 4

Activity Level	50.6
Haulage Level	60.9
TOTAL	61.3

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	170	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
56.8	56.8	52.6	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.5	-3.0	50.5	111890
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**51**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	80	37	15	C.2/34	Haulage 40 t Lorry	109	60.9	0	0	180	0.0	60.9	1227497
											Total:	**60.9**	

Activity | **Electrical Compound Installation**

Receptor Name: 4 Crown Cottage
Receptor Height 4

Activity Level	47.2
Haulage Level	60.9
TOTAL	61.1

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	245	2.5	4	100	110	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
Table C4, item 50	Tracked Mobile Crane	1	71	10	245	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
60.7	60.7	55.8	Ks (Hs or Hr > 2.5)	3.25	-0.30	Soft Ground / No Barrier	60.4	-3.0	46.6	45369
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
60.7	60.7	55.8	Ks (Hs or Hr > 2.5)	3.25	-0.30	Soft Ground / No Barrier	60.4	-3.0	35.6	3595
								Total:	**47**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T_r dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T_r dB	Anti Log
1	80	37	15	C.2/34	Haulage 40 t Lorry	109	60.9	0	0	180	0.0	60.9	1227497
											Total:	**60.9**	

Activity | **Hardstanding and Tracks**

Receptor Name: Cleve Farm
Receptor Height 4

Activity Level	56.1
Haulage Level	60.1
TOTAL	61.6

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C2, item 21	Tracked Excavator	2	71	10	95	2.5	4	100	102	50	0	0
Table C2, item 30	Dump Truck	1	79	10	95	2.5	4	100	107	50	0	0
Table C5, item 20	Vibratory Roller	1	75	10	95	2.5	4	100	103	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
50.4	50.4	47.6	Ks (Hs or Hr > 2.5)	3.25	-0.17	Soft Ground / No Barrier	50.3	-3.0	48.7	74649
50.4	50.4	47.6	Ks (Hs or Hr > 2.5)	3.25	-0.17	Soft Ground / No Barrier	50.3	-3.0	53.7	235501
50.4	50.4	47.6	Ks (Hs or Hr > 2.5)	3.25	-0.17	Soft Ground / No Barrier	50.3	-3.0	49.7	93755
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**56**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T_r dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T_r dB	Anti Log
1	95	37	15	C.2/34	Haulage 40 t Lorry	109	60.1	0	0	180	0.0	60.1	1033682
											Total:	**60.1**	

Activity Manoeuvering Piling Plant

Receptor Name:	Cleve Farm
Receptor Height	4

Activity Level	51.0
Haulage Level	60.1
TOTAL	60.6

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	88	1	175	2.5	4	100	102	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	50.2	104159
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	42.2	16547
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**51**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	95	37	15	C.2/34	Haulage 40 t Lorry	109	60.1	0	0	180	0.0	60.1	1033682
											Total:	**60.1**	

Activity Active Piling

Receptor Name:	Cleve Farm
Receptor Height	4

Activity Level	64.9
Haulage Level	60.1
TOTAL	66.2

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Façade Correction, dB	Screening Correction, dB
Table C4, item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Pauselli 500	Piler	4	110	1	175	6	4	100	124	50	0	0
Table C6, item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{Aeq,T}$	Anti Log
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	50.2	104159
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	5	-0.84	Soft Ground / No Barrier	56.2	-3.0	64.8	3004268
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**65**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	LAeq, T, dB	Façade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected LAeq, T, dB	Anti Log
1	95	37	15	C.2/34	Haulage 40 t Lorry	109	60.1	0	0	180	0.0	60.1	1033682
											Total:	**60.1**	

Activity **PV Panel Installation**

Receptor Name:	Cleve Farm
Receptor Height	4

Activity Level	44.7
Haulage Level	60.1
TOTAL	60.3

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C4, Item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Table C5, Item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
Table C4, Item 50	Tracked Mobile Crane	1	71	10	320	2.5	4	100	99	50	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{aeq,T}$	Anti log
63.6	63.6	58.1	Ks (Hs or Hr < 2.5)	3.25	-0.33	Soft Ground / No Barrier	63.3	-3.0	43.7	23457
68.5	68.5	62.0	Ks (Hs or Hr < 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
63.6	63.6	58.1	Ks (Hs or Hr > 2.5)	3.25	-0.33	Soft Ground / No Barrier	63.3	-3.0	32.7	1859
								Total:	**45**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Fagade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	95	37	15	C.2/34	Haulage 40 t Lorry	109	60.1	0	0	180	0.0	60.1	1033682
											Total:	**60.1**	

Activity **PV Panel Installation**

Receptor Name:	Cleve Farm
Receptor Height	4

Activity Level	50.3
Haulage Level	60.1
TOTAL	60.6

Facade Correction Options	Screening Correction Options
0	0
3	5
	10

BS 5228 Reference	Plant	Quantity	Sound Pressure Level, Laeq, dB	Distance to SPL (m)	Distance to Receptor (time-weighted average for mobile plant)	Source Height (Hs)	Receptor Height (Hr)	% Soft Ground	Sound Power Level	% On-time	Facade Correction, dB	Screening Correction, dB
Table C4, Item 54	Telehandler	2	79	10	175	2.5	4	100	110	50	0	0
Table C5, Item 36	Diesel Bowser	1	89	10	500	2.5	4	100	117	5	0	0
								Total:	**-**			

K's	K'm	K'h	Distance Adjustment Assumed (based on distance to receptor, and source receiver heights and soft ground %)	Average Propagation Height if Soft Ground and Hs and Hr > 2.5	Soft Ground Adjustment for Source or Receptor Height ≥ 2.5m	Ground Type / Barriers Assumed (based on distance adjustment assumed and screening correction)	Distance Attenuation given ground type, K' dB (including Screening Correction)	On-time correction, dB	Resulting Pressure Level, dB, $L_{aeq,T}$	Anti Log
57.1	57.1	52.9	Ks (Hs or Hr > 2.5)	3.25	-0.25	Soft Ground / No Barrier	56.8	-3.0	50.2	104159
68.5	68.5	62.0	Ks (Hs or Hr > 2.5)	3.25	-0.39	Soft Ground / No Barrier	68.1	-13.0	35.9	3895
								Total:	**50**	

Haul Road

Segment	Distance to Haulage, m	Movements per hour	Average Speed, Km/h	BS 5228 Reference	Plant	LWA	Laeq, T, dB	Fagade Correction, dB	Screening Correction, dB	Angle of View	Angle of View Correction, dB	Corrected Laeq, T, dB	Anti Log
1	95	37	15	C.2/34	Haulage 40 t Lorry	109	60.1	0	0	180	0.0	60.1	1033682
											Total:	**60.1**	