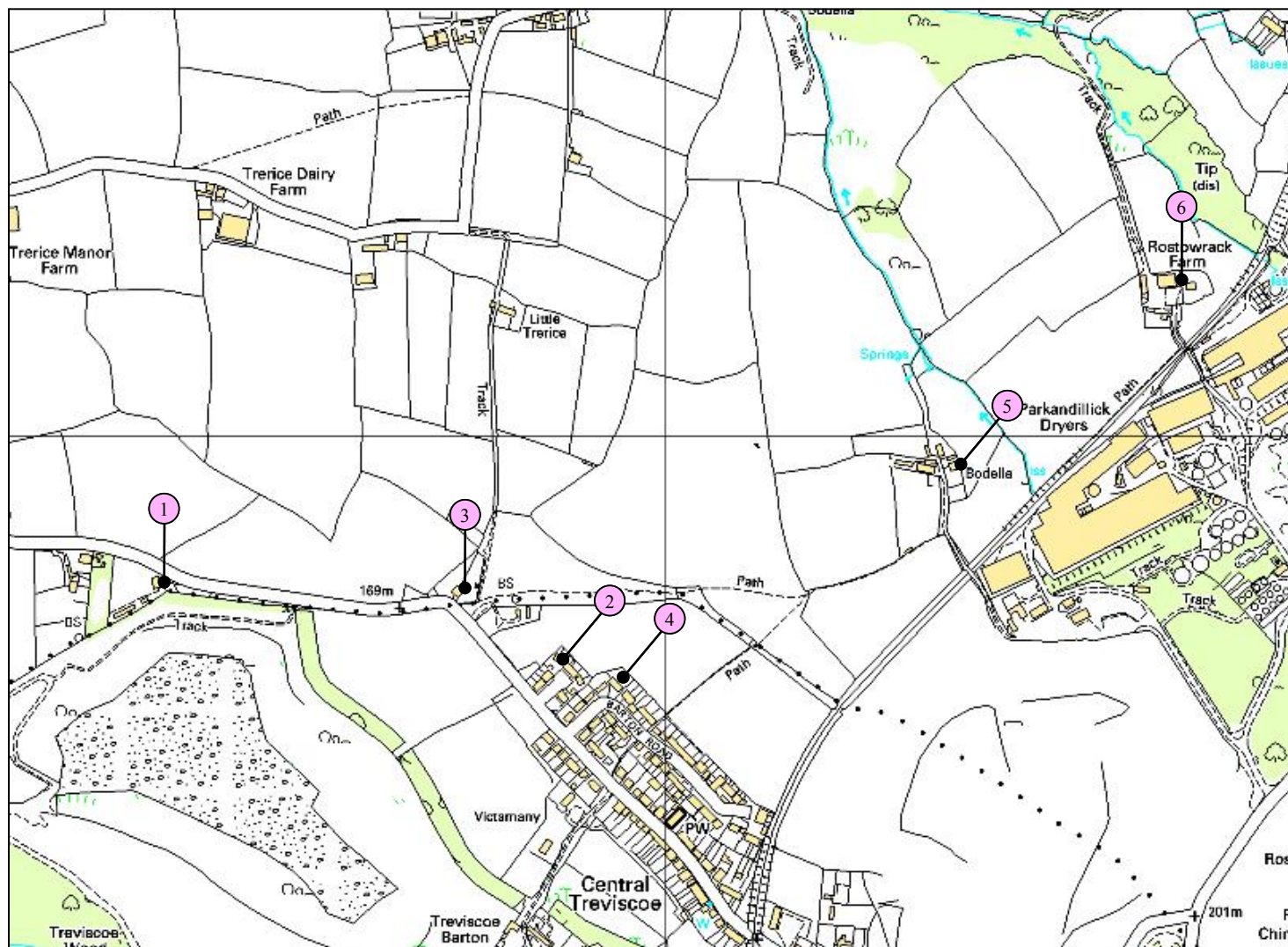




## **Appendix 1:**

### **Map Showing Noise Sensitive Community Receiver Locations**



**Locations:**

- 1. Hawthorns
- 2. Barton Court, Treviscoe
- 3. La Mount
- 4. Barton Road, Treviscoe
- 5. Bodella Farm
- 6. Rostowrack Farm

**Figure A1.1:** Map Showing Noise Sensitive Community Receiver Locations

## **Appendix 2:**

### **Policy Compliance Tables**

Type of Noise	Type of Assessment	Relevant Guidance / Standards	Criteria	Location	Baseline Background (day), dB LA90	Baseline ambient (day), dB LAeq	(Specific) Daytime Noise Rating Level (average hour / peak hour), dB LAr,Tr	(Specific) Night-time Noise Rating Level, dB LAr,Tr	Assessment	
									Post development daytime ambient (average hour / peak hour), dB LAeq	Assessment (day)
All-encompassing ambient noise	Absolute noise level assessment	BS 8233 / WHO	Comparison to guideline limits for community annoyance (daytime) and sleep disturbance (night):  Serious annoyance 55 dBA Moderate annoyance 50 dBA Sleep disturbance 42 dBA	Location 1 - Hawthorns	46	49	52 / 56	<29	54 / 57	Move from just below criterion for onset of moderate annoyance to well above that threshold (and above threshold for serious annoyance during peak hours)
				Location 2 – Barton Court (rear garden)	38	43	50 / 54	29	51 / 54	Move from well below criterion for onset of moderate annoyance to just above that threshold (and well above that threshold during the peak hours)
				Location 3 - La Mount	43	52	56 / 60	<29	59 / 61	Move from above criterion for onset of moderate annoyance to well above the threshold for serious annoyance
				Bodella Farm	48	50	53 / 56	42	56 / 57	Move from criterion for onset of moderate annoyance to just above level for onset of serious annoyance
				Rostowrack Farm	39	46	46 / 50	31	49 / 50	Move from well below level for onset of moderate annoyance to just below or at that threshold
All-encompassing noise	Noise change	IEMA Guidelines for noise impact assessments	Assessment of noise change in terms of ambient noise and any other relevant parameters.  0 dB: negligible <3 dBA: minor <10 dBA: moderate ≥ 10 dBA: major  (these criteria are considered generous)	Location 1 - Hawthorns	46	49	52 / 56	<29	54 / 57	+5 dB change average hour: <b>moderate</b> (+8 dB change peak hour: <b>moderate</b> )
				Location 2 – Barton Court (rear garden)	38	43	50 / 54	29	51 / 54	+8 dB change average hour: <b>moderate</b> (+11 dB change peak hour: <b>major</b> )
				Location 3 - La Mount	43	52	56 / 60	<29	59 / 61	+7 dB change average hour: <b>moderate</b> (+9 dB change peak hour: <b>moderate</b> )
				Bodella Farm	48	50	53 / 56	42	56 / 57	+6 dB change average hour: <b>moderate</b> (+7 dB change peak hour: <b>moderate</b> )
				Rostowrack Farm	39	46	46 / 50	31	49 / 50	+3 dB change average hour: <b>moderate</b> (+4 dB change peak hour: <b>moderate</b> )
Noise from industrial premises	Level difference	BS 4142	Assessment of specific noise rating level compared to background noise:  -10 dBA difference: complaints unlikely +5 dBA difference: marginal significance +10 dBA difference: complaints likely	Location 1 - Hawthorns	46	49	52 / 56	<29	54 / 57	+6 dB average hour: <b>marginal</b> (+10 dB peak hour: <b>complaints likely</b> )
				Location 2 – Barton Court (rear garden)	38	43	50 / 54	29	51 / 54	+12 dB average hour: <b>complaints likely</b> (+16 dB peak hour: <b>complaints likely</b> )
				Location 3 - La Mount	43	52	56 / 60	<29	59 / 61	+13 dB average hour: <b>complaints likely</b> (+17 dB peak hour: <b>complaints likely</b> )
				Bodella Farm	48	50	53 / 56	42	56 / 57	+5 dB average hour: <b>marginal</b> (+9 dB peak hour: <b>complaints likely</b> )
				Rostowrack Farm	39	46	46 / 50	31	49 / 50	+7 dB average hour: <b>marginal</b> (+11 dB peak hour: <b>complaints likely</b> )

TABLE A2.1: Policy Compliance Assessment Table – Operational Noise (Residential)

Type of Noise	Type of Assessment	Relevant Guidance / Standards	Criteria	Location	Baseline Noise, dB L <sub>A10,18h</sub>	Development HGV Noise, dB L <sub>A10,18h</sub>	Cumulative Noise, dB L <sub>A10,18h</sub>	Change in dB L <sub>A10,18h</sub>	Assessment	
									Change in % people bothered very much or quite a lot by noise	Assessment
Traffic Noise	Noise change	DMRB	Assessment of noise change in terms of ambient noise and any other relevant parameters.  0 dB: no change 0.1 – 0.9 dBA: negligible 1 – 2.9 dBA: minor 3 – 4.9 dBA: moderate 5+ dBA: major	Location 1 - Hawthorns	49	52	54	5	35%	Major impact
				Location 2 – Barton Court (rear garden)	43	50	51	8	42%	Major impact
				Location 3 - La Mount (frontage)	56	56	59	3	30%	Moderate impact
				Bodella Farm	50	52	54	4	33%	Moderate impact
				Rostowrack Farm	46	42	48	2	25%	Minor impact

**TABLE A2.2:** Policy Compliance Assessment Table – Operational Noise (Residential)

Type of Noise	Type of Assessment	Relevant Guidance / Standards	Criteria	Location	Assessment						Assessment
					Baseline Background (day), dB L <sub>A90</sub>	Baseline ambient (day), dB L <sub>Aeq</sub>	Site Construction specific (free-field), dB L <sub>Aeq</sub>	Site Construction ambient (free-field), dB L <sub>Aeq</sub>	Access Route Construction specific (free-field), dB L <sub>Aeq</sub>	Access Route Construction ambient (free-field), dB L <sub>Aeq</sub>	
All-encompassing construction noise	Absolute noise level assessment	BS 5228 / MPS 2	Comparison to limits in MPS 2  Background +10 dBA subject to maximum of 55 dBA (in this case, the 55 dBA maximum level has been used in the assessment)  The MPS2 criteria include a temporary limit of 70 dBA for shorter term activities of up to a eight weeks	Location 1 - Hawthorns	46	49	<b>49 - 54</b>	52 - 55	<b>58 - 72</b>	58 - 72	MPS2 limit exceeded during haul road construction. Higher MPS2 temporary limit of 70 dBA also exceeded during haul road construction.
				Location 2 – Barton Court (rear garden)	38	43	<b>44 - 52</b>	46 - 52	<b>53 - 66</b>	53 - 66	MPS2 limit exceeded during haul road construction.
				Location 3 - La Mount	43	52	<b>55 - 60</b>	58 - 61	<b>64 - 77</b>	65 - 77	MPS2 limit exceeded throughout entire construction period. Higher MPS2 temporary limit of 70 dBA also exceeded during haul road construction
				Bodella Farm	48	50	<b>56 - 71</b>	57 - 71 (50 in Q11)	<b>55 - 68</b>	56 - 68	MPS2 limit exceeded throughout entire construction period. Higher MPS2 temporary limit of 70 dBA also exceeded during site construction
				Rostowrack Farm	39	46	<b>55 - 71</b>	55 - 71 (47 in Q11)	<b>36 - 49</b>	46 - 51	MPS2 limit exceeded throughout entire site construction period. Higher MPS2 temporary limit of 70 dBA also exceeded for up to six months during site construction
All-encompassing construction noise	Noise change	BS 5228	Assessment of noise change in terms of ambient noise and any other relevant parameters.	Location 1 - Hawthorns	46	<b>49</b>	49 - 54	<b>52 - 55</b>	58 - 72	<b>58 - 72</b>	Noise change of between +3 to +23 dB
				Location 2 – Barton Court (rear garden)	38	<b>43</b>	44 - 52	<b>46 - 52</b>	53 - 66	<b>53 - 66</b>	Noise change of between +3 to +23 dB
				Location 3 - La Mount	43	<b>52</b>	55 - 60	<b>58 - 61</b>	64 - 77	<b>65 - 77</b>	Noise change of between +6 and +25 dB
				Bodella Farm	48	<b>50</b>	56 - 71	<b>57 - 71</b> (50 in Q11)	55 - 68	<b>56 - 68</b>	Noise change of between +6 and +21 dBA
				Rostowrack Farm	39	<b>46</b>	55 - 71	<b>55 - 71</b> (47 in Q11)	36 - 49	<b>46 - 51</b>	Noise change of up to +25 dBA

**TABLE A2.3:** Policy Compliance Assessment Table – Construction Noise (Residential)

Type of Noise	Type of Assessment	Relevant Guidance / Standards	Criteria	Location	Assessment				Assessment
					Baseline Background (day), dB L <sub>A90</sub>	Baseline ambient (day), dB L <sub>Aeq</sub>	Specific (Intruding) Noise, dB L <sub>Aeq</sub>	Post development ambient noise, dB L <sub>Aeq</sub>	
Specific operational noise (including HGVs)	Level difference assessment	WHO	Difference between intruding noise and background noise to be kept "low"	Footpaths in vicinity of site	40 - 48	50	55 - 65	56 - 65	Level difference +7 to +25
				Route of footpaths alongside access routes	38	43	60 - 65 (64 - 69 peak hour)	60 - 65 (64 - 69 peak hour)	Level difference +22 to +27 (+26 to + 31 peak hour)
All-encompassing ambient noise	Noise change	IEMA / BS 5228	Impact deemed significant if noise change is equal to 5 dB or more	Footpaths in vicinity of site	40 - 48	50	55 - 65	56 - 65	Noise change +6 to +15: Significant impact
				Route of footpaths alongside access routes	38	43	60 - 65 (64 - 69 peak hour)	60 - 65 (64 - 69 peak hour)	Noise change +17 to +22: Significant impact (+21 to +26 peak hour)
All-encompassing ambient noise	Absolute noise level assessment	WHO / MPG 11	Comparison to guideline limits for community annoyance (daytime) and sleep disturbance (night):  Serious annoyance 55 dBA Moderate annoyance 50 dBA  Comparison to old MPG 11 limit for public spaces of 65 dBA	Footpaths in vicinity of site	40 - 48	50	55 - 65	56 - 65	Noise levels will exceed WHO criterion for onset of serious community annoyance and reach MPG 11 limit at some locations some of the time
				Route of footpaths alongside access routes	38	43	60 - 65 (64 - 69 peak hour)	60 - 65 (64 - 69 peak hour)	Noise levels will exceed WHO criterion for onset of serious community annoyance and exceed the MPG 11 limit for public spaces during the peak hours.

TABLE A2.4: Policy Compliance Assessment Table – Public Rights of Way, Operational Noise

Type of Noise	Type of Assessment	Relevant Guidance / Standards	Criteria	Location	Assessment						Assessment
					Baseline Background (day), dB L <sub>A90</sub>	Baseline ambient (day), dB L <sub>Aeq</sub>	Site Construction specific (free-field), dB L <sub>Aeq</sub>	Site Construction ambient (free-field), dB L <sub>Aeq</sub>	Access Route Construction specific (free-field), dB L <sub>Aeq</sub>	Access Route Construction ambient (free-field), dB L <sub>Aeq</sub>	
Specific noise due to construction including HGVs	Level difference assessment	WHO	Difference between intruding noise and background noise to be kept "low"	Footpaths in vicinity of site	40 - 48	50	55 - 71	56 - 71	NA	NA	Level difference +7 to +31 dBA This cannot realistically be classed as "low"
				Route of footpaths alongside access routes	38	43	58 - 63	58 - 63	up to 77	up to 77	Level difference +20 to +39 dBA This cannot realistically be classed as "low"
All-encompassing construction noise	Noise change	BS 5228	Impact deemed significant if noise change is equal to 5 dB or more	Footpaths in vicinity of site	40 - 48	50	55 - 71	56 - 71	NA	NA	Noise change +6 to +21: Significant impact
				Route of footpaths alongside access routes	38	43	58 - 63	58 - 63	up to 77	up to 77	Noise change +15 to +34: Significant impact
All-encompassing construction noise	Absolute noise level assessment	WHO / MPG 11	Comparison to guideline limits for community annoyance (daytime) and sleep disturbance (night):  Serious annoyance 55 dBA Moderate annoyance 50 dBA  Comparison to old MPG 11 limit for public spaces of 65 dBA	Footpaths in vicinity of site	40 - 48	50	55 - 71	56 - 71	NA	NA	Noise levels will exceed WHO criteria for onset of community annoyance for most of the time and MPG 11 criteria for open spaces some of the time.
				Route of footpaths alongside access routes	38	43	58 - 63	58 - 63	up to 77	up to 77	Noise levels will exceed WHO criteria for onset of community annoyance for most of the time and MPG 11 criteria for open spaces some of the time.

**TABLE A2.5:** Policy Compliance Assessment Table – Public Rights of Way, Construction Noise

Policy Plan	Policy No.	Policy Requirement	Assessment	Compliance?
Cornwall Structure Plan	3	Development should <u>avoid</u> , directly or indirectly, risk of <u>significant levels</u> of pollution or contamination to air, land, soil or water, including <u>noise</u> and light pollution	The impact of both operational and construction noise will be significant.	No
	6	Development should be compatible with... the <u>protection</u> of the environment and <u>local amenity</u> from <u>significant adverse effects</u> of waste management facilities	Noise will result in a significant adverse effect during both construction and operational phases. Both construction and operational noise will result in a loss of amenity to local residents and users of public footpaths.	No
Cornwall Waste Local Plan	C1	Proposals for waste management facilities will be carefully evaluated for potentially damaging effects and will not be permitted unless it can be satisfactorily demonstrated that :		
	a)	the development includes appropriate <u>measures to prevent a significant risk of pollution</u> ;	Measures to minimise the effect of noise from the development were dismissed by the appellant as not required during the application	No
	c)	proposed site management measures can be ensured to <u>protect local amenity</u> through minimising emissions of noise, dust and odour, fumes and control, litter and vermin and birds;	Both construction and operational noise will result in a loss of amenity to local residents and users of public footpaths.	No
	e)	the <u>traffic</u> to and from the development would not <u>prejudice amenity</u> or highway safety and that there is adequate highway capacity;	The traffic to and from the development will result in a loss of amenity to local residents and users of public footpaths, as demonstrated by the DMRB assessment as well as the absolute level, noise change and level difference assessments	No
	h)	the <u>cumulative impact</u> of individual effects will not cause <u>unacceptable detriment to local amenity</u> or the natural and historic environment...	The cumulative noise impact due to all of the sources associated with the development will result in a loss of amenity to local residents and users of public footpaths.	No
Restormel Borough Council Local Plan	Policy 37	Development proposals will not be permitted that cause harm from noise	The BS 4142 assessment shows that complaints are likely, primarily due to noise from HGVs. Absolute ambient noise level will in some cases move to above level for onset of serious annoyance.	No

**TABLE A2.6:** Policy Compliance Assessment Table – Development Plan Policies