

**BRIAN DENNIS
NOISE
NOISE PROOF SUMMARY**

**TOWN & COUNTRY PLANNING ACT 1990 (INQUIRIES PROCEDURE)
(ENGLAND) RULES 2000**

APPEAL REF: APP/D0340/A/09/2113075/NWF

**Land at Rostowrack Farm, Wheal Remfry, Goonvean and
Parkandillick Dryers, St Dennis, St Austell**

Noise Proof of Evidence Summary

On behalf of SITA Cornwall Limited

February 2010

Hoare Lea Acoustics

**01202 545800
www.hoarelea.com**

CERC: Noise Proof of Evidence Summary
Hoare Lea Acoustics

Summary

- 1 The Submission Stage Waste Development Framework identified the Site for the proposed CERC as one of two preferred locations for a single energy from waste facility. One of the advantages of the site, in terms of noise, is that it is not located in tranquil countryside but adjacent to existing industrial operations.
- 2 During my assessment of the baseline noise data and the predicted noise levels from construction and operational activities, I have considered the effects on the residential population based on the absolute noise levels and change in noise levels. It is important that both are considered together and not in isolation.
- 3 I provide a summary of the predicted noise impact verses number of dwellings based on the absolute noise level and change in noise level assessment methods. This is shown in Tables 1 and 2. I consider these tables provide a useful and informative overview of the predicted noise impacts and include all dwellings within a 250m distance from the haul/access road. The CERC proposals affect a very low number of houses.
- 4 I conclude that there is no significant noise impact in respect of absolute noise levels which is set out in the ES.
- 5 I accept that there will be a noticeable noise change for a relatively small number of dwellings using the assessment methods described in my proof. However, the predicted noise levels are below the on-set of

community annoyance in accordance with WHO guidelines and I therefore consider the overall noise impact to be of a moderate significance.

6 The noise impact is predominantly due to road traffic movements which occur during weekdays 7am – 5pm and Saturday 7am – 1pm. This is an important point as at all other times when it is most likely that residents will be enjoying the external amenity, such as summer evenings and Saturday afternoons and all day Sunday, there will be no HGV movements.

7 In order to address the impact in terms of noise change. A package of mitigation is proposed.. The mitigation measures are considered to be best practice. They are:

- A 2.5m Cornish hedge for the majority of the length of the southern edge of the access road to safeguard the external amenity at dwellings situated at Barton Court and Barton Road
- A 2.5m Cornish hedge for a length of 60m on the northern edge of the access road from the C184 to safeguard the external amenity at La Mount
- A 3m high acoustic barrier situated between the haul road and the rear gardens of Hawthorns and adjacent properties
- Earth mounds and/or site perimeter screens provided around the CERC site during construction and on completion to safeguard the external amenity at Rostowrack Farm, Bodella Farm and adjacent footpaths

- Construction hoarding situated between the public footpath and development site during construction prior to rerouting footpath

05

8 I conclude that with the mitigation measures proposed the impact in terms of noise change is acceptable.

Table 1: Predicted Noise Impact Based on Fixed Noise Limits

Activity	Assessment Method (absolute limits)	Noise Impact / No. dwellings			reason for moderate impact
		minor	moderate	Major	
construction noise (site)	AL72 / BS5228	106	2		Rostowrack and Bodella prediction appears to comply with moderate significance criteria of less than 70dB(A) throughout construction
construction noise (haul route)	AL72 / BS5228	103	5		La Mount corner (2) + Hawthorn (3) prediction above 70dB(A) and generally above 60dB(A). Considered to comply with moderate significance criteria
Operational traffic	WHO	106	2		La Mount corner (2 dwellings) exceed 55dB(A) criteria
Operational site	MPS2 / WHO	108			All locations below 42dB(A) at night and well below daytime criteria

Table 2: Predicted Noise Impact Based on Noise Change

Activity	Assessment Method (Noise Change)	Noise Impact / No. dwellings			Reason for Moderate Noise Impact
		Minor	moderate	Major	
construction noise (site)	BS5228	107	2		Rostowrack and Bodella predicted to exceed 68dB(A) and 70dB(A) depending on which method is used in BS5228.
construction noise (haul route)	BS5228	103	5		La Mount corner (2 dwellings) and Hawthorn (3) expected to exceed limits in BS5228 when activity occurs adjacent to dwelling. Although this will be for a limited period of time and weekday daytime periods only and considered a moderate noise impact
operational traffic	DMRB, IEMA	49	35	24	Properties on the east side of Barton Court + northern half of Barton Road more than 5dB(A) change – major noise impact using DMRB but in absolute terms would be no worse than minor (see absolute noise limit assessment). Properties on east side of Barton Road (southern half) and, La Mount corner (2), Hawthorn (3) all between +3 to +5dB range and moderate noise impact. All others considered minor.
operational site	BS4142	day 107 night 108	day 1		Assessment indicates complaints will be of marginal significance during the day at Rostowrack farm and therefore considered as moderate noise impact. All other properties considered as minor noise impact