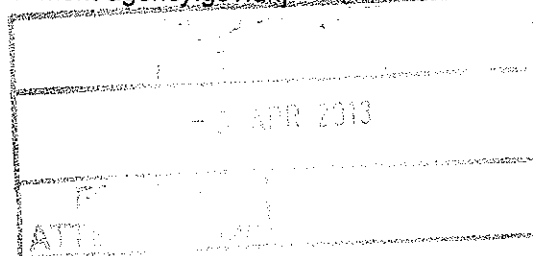


Helen Booth

From: Jackson, Gemma L [gemma.jackson@environment-agency.gov.uk]
Sent: 04 April 2013 11:48
To: planning
Cc: jpyeplanning@gmail.com
Subject: Planning consultation 3/2013/0214
Attachments: 3-2013-0214.pdf
Planning consultation 3/2013/0214



In relation to the above consultation, please find attached a copy of the Environment Agency's response

Kind regards

Gemma Jackson
Sustainable Places - Planning Officer
Environment Agency, PO Box 519, South Preston, PR5 8GD
Tel: 01772 714332
Ext 721 4332

Information in this message may be confidential and may be legally privileged.

We have checked this email and its attachments for viruses. But you should sti
We may have to make this message and any reply to it public if asked to under

04/04/2013

Ribble Valley Borough Council
Development Control
Council Offices Church Walk
Clitheroe
Lancashire
BB7 2RA

Our ref: NO/2013/104985/01-L01
Your ref: 3/2013/0214
Date: 04 April 2013

Dear Sir/Madam

**PROPOSED NEW SLURRY LAGOON
OVER HACKING FARM STONYHURST CLITHEROE**

Thank you for referring the above application which was received on 18 March 2013.

We have no objection in principle to the proposed development but wish to make the following comments:-

Proposed Location

The stream to east/south of the proposed lagoon feeds directly into the River Hodder SSSI, which generally runs from northwest to southeast and is to the south of the proposed location, would appear to be fairly close, and as such a potential receptor for any leaks from the lagoon.

To ensure protection of the water environment we would **strongly recommend** that an additional buffer greater than a minimum of 10 metres, measured from the base of the outer edge of the bund wall is accommodated as part of the proposed scheme.

Advice to applicant

From the plans it can be seen that the proposed slurry lagoon will be constructed from a non permeable clay layer. The impermeable system(s) must be protected against corrosion and constructed in accordance with BS5502: Part 50 1993.

To be suitable the banks of the non permeable clay layer used in the construction of the slurry lagoon must have a permeability of 0.000001 mm per second or less, following compaction if necessary. Impermeable soil must be present to a depth of at least 1 metre below the bottom of the store.

Initial searches indicate that the proposed location will be suitable for construction of an

Environment Agency
PO Box 519, Bamber Bridge, Preston, PR5 8GD.
Customer services line: 03708 506 506
www.environment-agency.gov.uk
Cont/d..

earthbank lagoon - subject to satisfying SSAFO (Silage, Slurry and Agricultural Fuel Oil) requirements.

Geological mapping for the area shows the proposed site to be located above Carboniferous Sandstone at rockhead, and this is shown to be overlain by superficial deposits with glacial till mapped as occurring at surface. The soils are classified as being of low leaching potential. We do not have any logs in the immediate vicinity that provide further information on the nature and thickness of these drift deposits. Soil permeability testing therefore will also be required as part of meeting SSAFO regulations to ensure the presence of impermeable soil and protection of groundwater.

It can be observed on the OS mapping, and indeed on the map that has been supplied, that there are a number of springs marked in the locality, which are an indication of shallow groundwater. These springs could potentially be sourced from the drift deposits, which would suggest that there is the potential for the soil to be permeable.

In summary to satisfy SSAFO requirements the applicant will need to carry out specific investigations to determine the suitability of the ground, and to make sure that there is consistency in the clay, and no water bearing horizons are present.

We will need to inspect and sign off the lagoon at least 2 weeks before the structure is brought into use, and preferably at design stage.

Further information is available on the Environment Agency website. The applicant should refer to the following documents for further guidance on the requirements of the SSAFO Regulations. Both documents are available on our website at <http://www.environment-agency.gov.uk/business/sectors/118798.aspx>

- Fact sheet 5 - Earth bank slurry stores and tanks,
- Soil Suitability and Testing for Earth Lined Slurry Lagoons

A copy of this letter has also been sent to the applicant/agent.

Yours faithfully

Gemma Jackson
Planning Officer - Sustainable Places

Direct dial 01772 714332

Direct fax 01772 697032

Direct e-mail nwnorthplanning@environment-agency.gov.uk

cc Ms Julia Pye

End