

Maire Buckley

From: Eugene Beirne [REDACTED]
Sent: 14 June 2010 22:29
To: Licensing Staff
Subject: New submission entered for Reg no: W0274-01. (Reference Number: W0274-01-100614102827)
Attachments: Letter on Wells to EPA.doc
Importance: High

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Dear Sir or Madame,

Observations regarding Waste Licence Application Reference No
WO274-01

By AD Power Roscommon.

I wish to draw your attention to the enclosed map which shows that the proposed site is only a few hundred yards from Luggadill Spring and the connecting stream which flows to Upper Lough Gara. This is one of the many wells in the area but is probably the best known one and was used for many generations by the local people.

I also enclose P. 44 of the Application from the Environment Impact Statement which states "A search of the GSI well database was undertaken as part of a desk study. However, no wells were located within a 5km radius of the site. A door to door survey was also carried by the OGE and no wells were located in the vicinity". I can not believe that any such survey could have taken place as the local people would have been willing and eager to point out the location of several wells in the area.

Again I wish to lodge an objection to this "Waste Licence" being granted to a company who obviously are not doing their research properly or complying with the local community.

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Hydrogeology

The site is underlain by the Oakport Limestone (OK) to the north and the Undifferentiated Limestone (VIS) to the south. The Oakport Limestone is classified as a Regionally important Aquifer by the GSI. Visean Limestone where clean are equivalent to the Oakport Limestone and can be prone to karstification.

Regionally important Karstified Aquifers are usually characterised by a predominance of localised flow through solutionally enlarged conduits and fissures. The predominant conduit flow means aquifers of this type have low storage where movement of water through the aquifer is rapid. The permeability of competent limestone is very low which could also explain the high density of surface water features.

In this region of Roscommon recharge to aquifers tends to occur in higher topographical area rather than lower areas. Lower topographical areas in this region tend to be covered in low permeability subsoils such as peat and tills. Effective precipitation tends to run-off as surface drainage.

Well Inventory

A search of the GSI well database was undertaken as part of the desk study. However, no wells were located within a 5km radius of the site. A door to door well survey was also carried by OGE and no wells were located in the vicinity.

Ground Water Levels and Gradients

There is currently one monitoring well on the site and the static water level was 7.64m below ground level on the 3rd of March 2008. There are insufficient wells to determine the exact ground water gradient. However, based on topography flow is thought to be to the northwest.

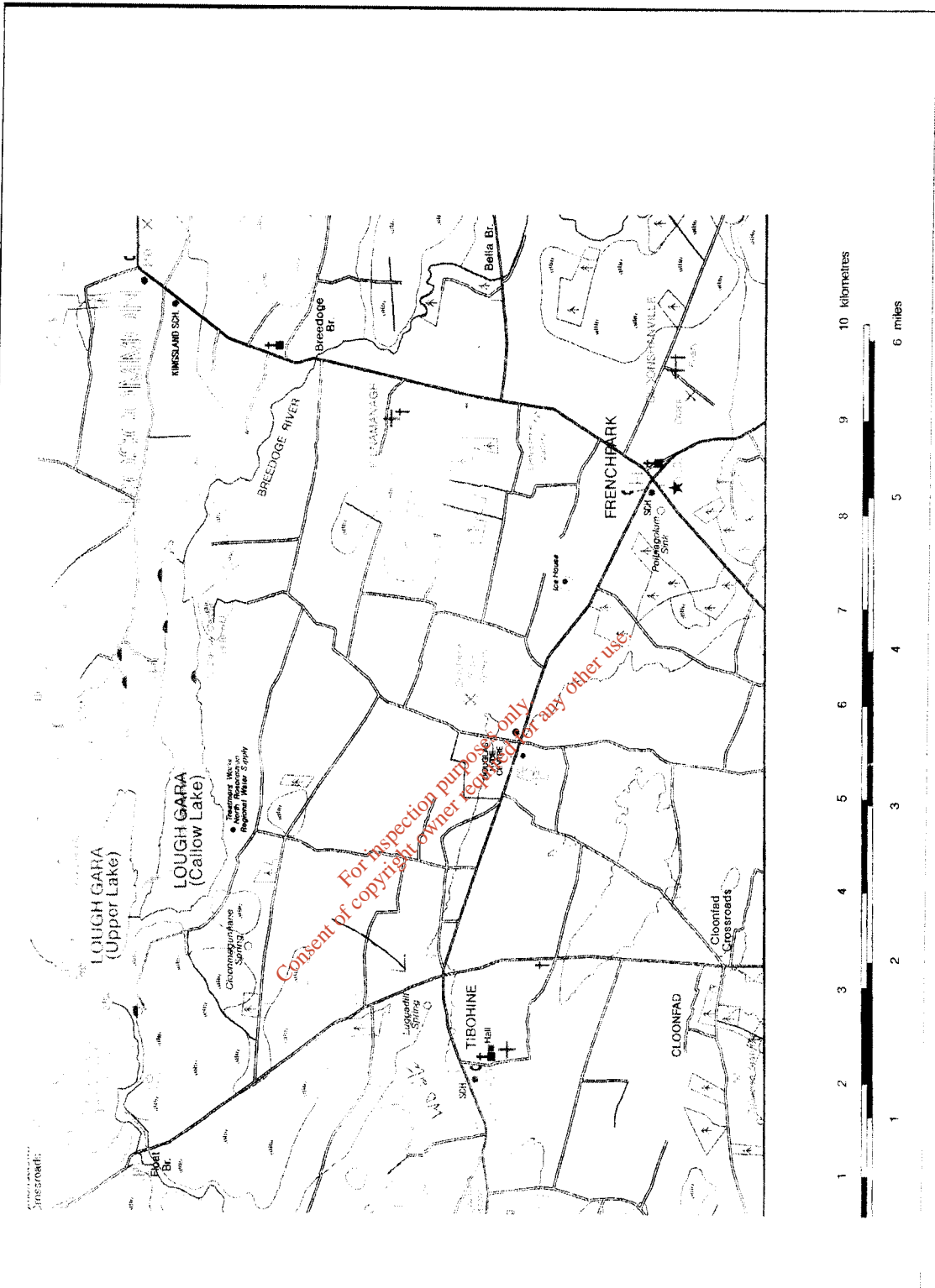
Aquifer Vulnerability

The vulnerability of the aquifer is dependent on the nature of the geology, and the nature and thickness of the overburden. The GSI classify the aquifer beneath the development site as been Low to Medium vulnerability. However this is not based on site specific data. The vulnerability increases to 'High' towards the southeast of the map as the topography rises, see Figure No. 5.

Surface and Ground Water Hydrochemistry

To determine the water quality and the hydrochemical make up of the surface and ground water in the vicinity of the proposed development a ground water sample was taken from the on-site monitoring well (ID 11201) and from the stream (ID 11200). The location of the sampling points is shown in Appendix G.2. Samples were analysed at Bord na Mona Environmental, Newbridge, Co. Kildare which is an accredited laboratory. Results of hydrochemical and microbiological analysis are presented in Table No. 5 below.

Yours truly, Eugene Beirne



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