



Hands Lane  
Rush  
Co Dublin  
20/9//2011

Mr B. Meeney, EPA Inspector  
Johnstown Castle Estate  
Co Wexford

**Ref. Proposed hazardous waste landfill for MEHL at Naul, Co Dublin  
WO129-03**

Dear Mr Meeney,

Further to my previous correspondence with the Agency on behalf of Nevitt Lusk Action Group (NLAG) I wish to bring the following to your attention.

### **NEW WELL AT KNIGHTSTOWN**

On Saturday last 17<sup>th</sup> Sept 2011 a new groundwater well was drilled for Mr Declan White in the townland of Knightstown 2Km SE of the MEHL site to service two dwelling houses and a commercial warehouse with a private groundwater supply.

The borehole data furnished by Kings Drilling is as follows.

***Depth to bedrock - 24 metres***

***Subsoil - mostly clay, then a layer of silt, then a layer of sand.***

***Bedrock drilled to 42 metres below ground level- highly fractured limestone***

***Water Level - 17 metres below ground level***

***Approx. well output – 200,000 Litres/day***

- See attached bedrock groundwater contour map produced by RPS for Nevitt Landfill EIS. The position of the well is marked with an X and lies at 55 mOD. Bedrock is therefore at 31mOD and the water level is 38mOD.
- 250m north of the new well a rock outcrop is shown on a stream bed, also at 55 mOD.
- **The bedrock therefore drops by 25metres in a distance of 250 metres.**

- Note that Borehole BRC2 adjacent to the rock outcrop and also at 55mOD has a water level of 50.251mOD, and that the 50metre contour is shown passing through the well site. **The new water level data shows this to be incorrect.**
- Borehole ER10 approx 500 metres directly east of the new well at 46mOD has a similar water level however at 39.056mOD.

I have indicated on attached sketch map revised 50 and 40 metre contours for the area and it shows a sharp turn to the west.

This east west groundwater contour is also consistent with the ground level contours which reflect the southern slope of Hollywood Great Hill. The remarkably steep fall in bedrock level referred to above may well be reflected in the distinct TLs subsoil feature extending towards Brownstown which I have circled on the attached Teagasc Subsoil Map.

**All of the above would indicate a deep underground valley running East/West in the general direction of Loughmain/Brownstown within the Locally Important Moderately Productive Aquifer with Hollywood Great Hill providing recharge from a northerly direction, and that this feature is an important groundwater resource containing a number of commercial groundwater sources.**

I have marked the position of the three main horticultural well owners in this area all of which have major processing plants inspected by Bord Bia - i.e.

Bergins – 3M litres/day

Keoghs – 1M litres/day

Kerrigans – 1 M litres/day

( Note ; Bergins and Keoghs lie on a major east/west faultline. See map.)

**It appears to me that given the evidence prepared by RPS and presented by Fingal County Council regarding the absence of natural protection and faults under the MEHL site, and the new data presented here, that the MEHL site presents a much more widespread and serious hazard than hitherto appreciated. It would also appear that an oral hearing involving the GSI, Bord Bia. RPS, local farming interests, the NLAG and local residents specifically on the issue of Groundwater would be highly desirable.**

Yours truly,  Patrick Boyle, B.E.

- Borehole ID (Waterlevel mAOD)
- Groundwater Contour (mAOD)
- Groundwater Flow Direction
- Proposed Landfill Footprint

*To EPA.*  
*P.A.S.*  
*20/9/2011*

Fingal County Council  
 Contribute Centre Three Gal

**Project**  
 Fingal Landfill

**Title**  
 Groundwater Contours  
 Bedrock  
 11th October 2005

Figure 3.18.5

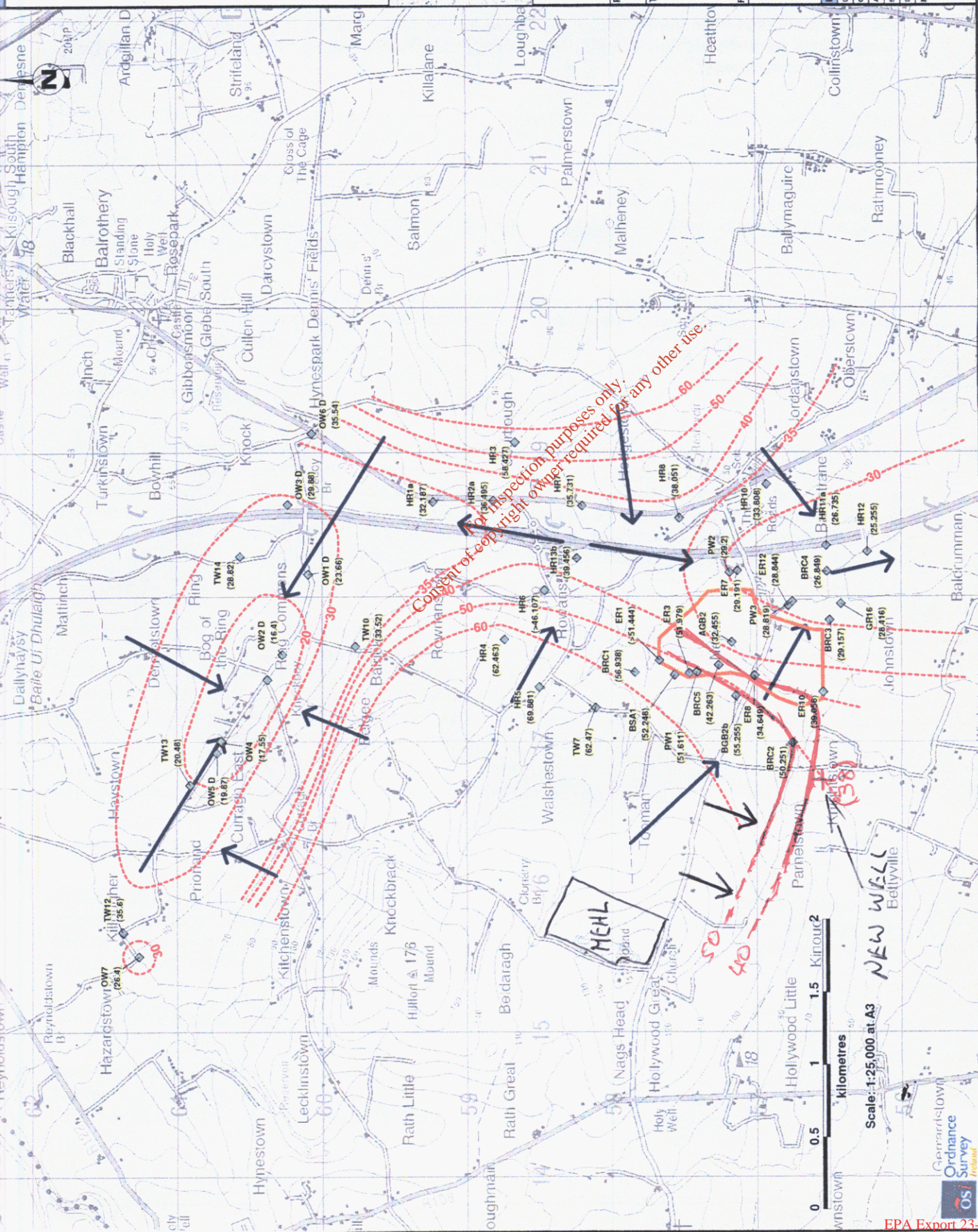
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subsoils (parent material)

- A
- BasEsk
- BkPt
- Cut
- GG
- GLPSS
- GLS
- IrSTLPSs
- IrSTLPSs
- KaRck
- L
- Made
- Mbs
- Mesc
- Rck
- Rck
- Scre
- TBI
- TdMr
- TDSs
- TGr
- TLPSs
- TLS
- TNSSs
- TQZ
- Water
- Ws
- Wsd

O WELLS

**Proposed Landfill Footprint**



Data prepared by the Spatial Analysis Group,  
TEAGASC, Kinsale Research Centre  
Funded by NDP

Project: **Fingal Landfill**  
 Title: **TOP 1536 Subsoil Map**  
 Date: **20/9/2011**

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