



Murphy Environmental Hollywood Ltd

Hollywood Great, Nag's Head, Naul, County Dublin
T: 01-8433744 F: 01-8433747 W: www.mehl.ie
EPA Waste Licence W0129-02

For the Attention of
Administration
Environmental Licensing Programme
Office of Climate, Licensing & Resource Use
Environmental Protection Agency
Headquarters
PO Box 3000
Johnstown Castle Estate
Co. Wexford

Our Ref.: W0129-03/AI_Art16_210513b
Direct Dial: 01 8433744
Direct Fax: 01 8433747
Date: 21st May 2013

Dear Mr. Meaney,

**Re.: Murphy Environmental Hollywood Ltd. (MEHL), EPA Ref. W0129-03
Response to Notice in accordance with Article 16(1) of the Waste Management (Licensing) Regulations**

1. We refer to the Agency's notice in accordance with Article 16(1) of the Waste Management (Licensing) Regulations on 11th July 2012. MEHL hereby responds to queries relating to Pyrite (Item#4).
2. In accordance with Section 2.3 Design Standards of the Agency's Landfill Site Design Manual (EPA, 2000), MEHL will ensure that at the Detailed Design/Specified Engineering Works (SEW) phase of the proposed Integrated Waste Management Facility development the most current Irish, European and International standards, relevant performance specifications, guidelines, quality assurance and quality control procedures are employed to ensure the infrastructure is designed and constructed to the highest quality standards and ensuring best available technology is utilised in all aspects of the development.
3. Site Investigation works, including a geotechnical ground investigation, were undertaken and completed in May 2010. No geotechnical constraints have been identified. Further geotechnical investigations will be undertaken as part of detailed design prior to pre-development construction works. Engineered ground improvement works to the base of the cells, to meet the cell design requirements, will be undertaken as part of the construction of the cells and will be assessed during the works to ensure that the criteria for the cell design is achieved.
4. In December 2007 NSAI published an amended version (SR 21:2004+ A1:2007) of an existing Standard Recommendation SR21:2004 Guidance on the use of IS EN 13242:2002 - *Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction*. The purpose of the amendment to SR21 was to limit the presence of a reactive form of pyrite in hardcore, used under concrete ground floors and which may give rise to swelling or sulphate attack (Pyrite Panel Report, June 2012).



Directors: Seamus Murphy (Managing Director), Patricia Rooney, Rory Murphy, Emma Murphy
Reg. Office: Hollywood Great, Nag's Head, Naul, County Dublin
Reg. No. 448931 VAT No. IE 9677893C



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5. MEHL will ensure that all engineering material site won and imported for the development of all site infrastructure for the Integrated Waste Management Facility meet all Irish, European and International standards, relevant performance specifications, guidelines, quality assurance and quality control procedures and specifically relating to pyrite meet IS EN 13242:2002 standard as amended version SR 21:2004+ A1:2007.
6. As per Condition 3.3 of EPA Waste Licence W0129-02 related to Specified Engineering Works (SEW) and Construction Quality Assurance (CQA) MEHL intend to employ the principles agreed for SEW & CQA associated with the development of any future site infrastructure including inert, non-hazardous and hazardous landfill cells.
7. MEHL will submit proposals for any Specified Engineering Works, to the Agency for its agreement at least two months in advance of the intended date of commencement of any such works. No such works shall be carried out without the prior agreement of the Agency.
8. All specified engineering works at the facility will be supervised by an appropriately qualified person, and that person, or persons, shall be present at all times during which relevant works are being undertaken.
9. Following the completion of any specified engineering works, MEHL will commission an appropriately qualified person to complete a construction quality assurance validation. The validation report will be made available to the Agency on request as per standard practice.
10. During the development of the Integrated Waste Management Facility Best Available Technology (BAT) and appropriate construction techniques will be utilised to ensure no environmental pollution to groundwater or surface water can occur.
11. Routine monitoring will continue throughout the development of the Integrated Waste Management Facility to ensure no environmental pollution to groundwater or surface water occurs.

The information contained herein is deemed not to impinge on the non-technical summary of the Waste Licence Application or EIS; no revisions to drawings arise from the information contained herein. The content of the electronic files on the accompanying CD-ROM is a true copy of the original.

If you have any further queries in relation to this matter please do not hesitate to contact us.

Yours sincerely,

Patricia Rooney
Director & General Manager, MEHL