

STRATEGIC INFRASTRUCTURE DEVELOPMENT
APPLICATION TO AN BORD PLEANÁLA
(REG NO. PL04.PA0045)

ORAL HEARING

RESOURCE RECOVERY CENTRE,
RINGASKIDDY, COUNTY CORK

WITNESS STATEMENT OF JOHN MACCARTHY

Surface Water Drainage Design

1. Qualifications and Experience

My name is John MacCarthy, I'm an Associate with Arup and have been working with Arup for over 20 years. I am a civil engineer and a member of the Institute of Engineers of Ireland

I graduated from Middlesex University in London with a BSC (Hons) in Environmental Science & Technology in 1994. I am currently leader of the Site Infrastructure engineering team in Cork & Dublin.

Before joining Arup I worked Michael Punch & Partners and E.G. Pettit.

2. Role in the Project

I am the lead civil engineer for the design of the site wide infrastructure for the project which includes the following elements:

- Internal Road Layout
- Surface Water Drainage
- Sanitary Drainage
- Potable Water Supply
- Firewater Retention
- Utility Diversions

Submissions and Responses – Cork County Council Water Services

Cork County Council – Water Services

1. The applicant should be requested to consider if provision should be made for a backup power supply for the surface water pumping system in the event of power failure during a storm.

Response:

I can confirm that the power that will be used to power the facility will be generated on site, rather than using imported power from the grid.

2. The applicant should be requested to check the adequacy of the proposed filter drain in the western field section of the site to cope with runoff from the raised plateau during the design storm condition.

Response:

We confirm that the proposed filter drain in the western field will be designed to have sufficient capacity to take the runoff from the raised area during the design storm conditions.

Cork County Council – Area Engineers Office

3. Surface Water design tie-in with the M28 Surface Water Drainage.

Response:

The proposed surface water drainage network and its catchment are detailed on Drawings C-000-0013, C-000-014 and C-000-015. We confirm that it is not proposed to connect any surface water from the proposed Indaver development into the M28 drainage network.

Cork County Council – Fire Officer’s Office

Fire Access to 100% of the building perimeter

Response:

As can be seen from Drawing C-000-003 it is proposed to provide a 4.0m wide fire access route around eastern elevation of the Tipping Hall. We can confirm that access has been provided to 100% of the perimeter of the process building.

Cork County Council – Existing GNI Gasmain

Proposed diversion of the existing GNI gasmain.

Response:

The existing gasmain is a 300mm diameter 19bar gasmain. We have agreed the general details and principals of the diversion of the gasmain with GNI. GNI are aware of the beach erosion line and have confirmed that there is a viable diversion route available. GNI are carrying out the design of the gasmain diversion based on the Arup proposal.

CHASE Solicitor’s – S.M.Bennet & Co. Hydrogeological & Environmental Engineers. & Others

Issue #1: Used Firewater Containment

Response

We confirm that the site wide surface water drainage infrastructure has been designed to collect and retain used firewater in accordance with *the EPA Fire Water Retention Facilities (Draft Guidance Note To Industry on the Requirements for Fire-Water Retention Facilities.*

Refer to EIS section 4.14.3.

Issue #2: Use and Location of Fuel Oil Storage Tanks

Response

The fuel storage tank is addressed in section 4.5.8.

Marcia Dalton

Issue #1: Poor Access for Emergency Services

Response

The site wide road network as detailed on Drawing C-000-003 provides road access to 100% of the perimeter of the process building, hence we are satisfied that the required level of road infrastructure in order to provide a means of egress and access in the event of a fire has been provided. The main entrance has been provided with an emergency access lane which will be kept clear at all time, in addition a second emergency access road has been provided directly to the process building. The site layout has been designed specifically to cater for emergency vehicles and fire-fighting access following fire safety guidance to comply with part B (fire safety) of the building regulations.