

Chapter 14:

Interactions Between Environmental Factors

14.0 INTERACTIONS BETWEEN ENVIRONMENTAL FACTORS

14.1 INTRODUCTION

All environmental factors are interlinked to a degree such that interrelationships exist on numerous levels. Interactions within the study area can be one-way interactions, two-way interactions and multiple-phase interactions which can be influenced by the proposed development. As this EIA document has been prepared by a number of specialist consultants an important aspect of the EIA process is to ensure that interactions between the various disciplines have been taken into consideration. This chapter of the EIA was prepared by Paul Turley, BA, MRUP, Dip Environmental & Planning Law, MIPI, Executive Director with John Spain Associates, with specific reference to each individual chapter of the EIA.

The purpose of this requirement of an EIA is to draw attention to significant interaction and interrelationships in the existing environment. **John Spain Associates, Planning & Development Consultants**, in preparing and co-ordinating this EIA ensured that each of the specialist consultants liaised with each other on an ongoing and regular basis and dealt with the likely interactions between effects predicted as a result of the proposed development during the preparation of the proposals for the proposed development and ensuring that appropriate mitigation measures are incorporated into the design process.

Having regard to the above, JSA required from the outset that a specific section on Interactions is included in each of the environmental topic chapters of the EIA. This approach is considered to meet with the requirements of Part X of the Planning and Development Act 2000, as amended, and Part 10, and Schedules 5, 6 and 7 of the Planning and Development Regulations 2001-2020.

Having regard to the approach taken, the aspects of the environment likely to be significantly affected by the proposed development, during both the construction and operational phases, have been considered in detail in the relevant Chapters of this EIA document. In addition, the interactions between one topic and another have been discussed under each topic Chapter by the relevant specialist consultant.

The primary interactions can be summarised as follows:

- Architectural design and landscape and visual impacts;
- Architectural design and daylight and sunlight impacts;
- Surface water and landscape design;
- Visual impact and architectural heritage;
- Noise and vibration and population and human health;
- Air quality and climate and population and human health;
- Material Assets with population and human health, water, noise and vibration, air quality and climate

The relevant consultants liaised with each other and the project architects, engineers and landscape architects where necessary to review the proposed scheme and incorporate suitable mitigation measures where necessary. As demonstrated throughout this EIA, most inter-relationships are neutral in impact when the mitigation measures proposed are incorporated into the design, construction or operation of the proposed development.

In addition to the above a series of standalone reports have been prepared to accompany the application and which have helped inform the final scheme design and the relevant chapters of the EIAR.