



## **Attachment B.6**

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	Project No.	3505 / 76-5685	Revision	B
	Project Title.	Kinsale Main Drainage Scheme – Wastewater Treatment Plant & Outfall	Page	
	Document No.	76-5685-76/T.02A/0014/B	Date	29.11.2007

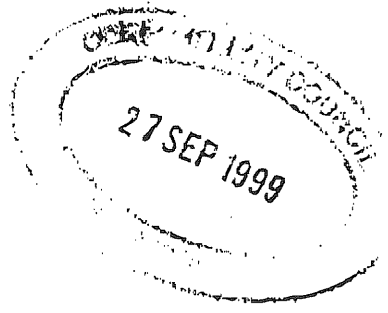
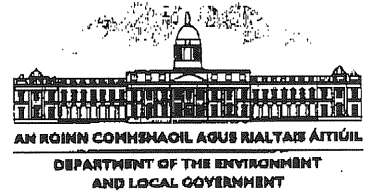
# APPROVED ENVIRONMENTAL IMPACT STATEMENT

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	Project No.	3505 / 76-5685	Revision	B
	Project Title.	Kinsale Main Drainage Scheme – Wastewater Treatment Plant & Outfall	Page	
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## Ministerial Approval of EIS, September 1999

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24th September 1999

Secretary,  
 Cork County Council,  
 County Hall,  
 Cork.

**Kinsale Sewerage Scheme**  
**Environmental Impact Statement in respect of**  
**Wastewater Treatment Works proposed for Cappagh, Kinsale**

A Chara,

I am directed by the Minister for the Environment and Local Government to refer further to recent correspondence in relation to the above development and write to advise that the Minister, having considered the report submitted to him, has certified that, subject to specified modifications, the proposed development does, in his opinion, embody the best practicable means to prevent or limit significant adverse effects on the environment.

I enclose for your information a copy of the Minister's certification and the Council's attention is specifically drawn to the modifications set out in the Schedule included in the certification.

Additionally the Department would draw the Council's attention to the following matters;

- the unauthorised tipping in the south east corner of the marsh is to be investigated and reclaimed if necessary and practicable;
- archaeological supervision is to be carried out under licence;
- the intertidal and sub-aqua inspections are to be carried out well in advance of construction and a copy of the report thereon sent to the Heritage Service.

In relation to discussions which have taken place between the Department's Senior Engineering Inspector and Cork County Council regarding the importance of the preservation of the marsh, the Council are reminded of the need to consider alternative routes for the rising main and the stormwater overflow pipe. It is understood that the Consultants for the scheme are considering revised routes and their report on the matter

AN ROINN COMHMAOIL  
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THE ENVIRONMENT AND  
 LOCAL GOVERNMENT

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should be submitted in the immediate future. This will be considered as part of the examination of the Preliminary Report for the project.

A notice outlining the Minister's decision on the application will be published by the Department in the Examiner, the Northside News, the Southern Star and the Echo.

Mise le meas,

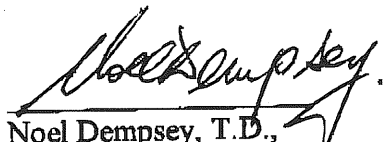
*Tony Conway*  
PP. Brid Conway,  
Water Services Section.

**Local Government (Planing and Development) Regulations, 1994**


In accordance with article 119 of the Local Government (Planning and Development) Regulations, 1994, I hereby certify, subject to the modifications contained in the Schedule below, that the proposed construction of a Wastewater Treatment Plant at Cappagh, Kinsale with the treated effluent being discharged to the Bandon Estuary will embody the best practicable means to prevent or limit significant adverse effects on the environment.

**Schedule**

1. The outfall pipe to be laid between 1 November and 1 March.
2. The estuarine water quality sampling programme to include pre-and post-construction phases and the South Western Regional Fisheries Board to be consulted about the programme.
3. In the interest of efficiency and the effective use of resources, the local authority should facilitate alternative designs and constructions with proven capacity to meet the required effluent standards, subject to there being no reduction in the environmental standards undertaken in the EIS in respect of visual, odour, and noise, impacts.
4. In addition to the secondary treatment proposed in the EIS, the impact of the discharge on water quality in the licensed shellfish areas shall be further reduced by disinfection

  
 Noel Dempsey, T.D.,  
 Minister for the Environment and  
 Local Government.

20th September 1999

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## Environmental Impact Statement (Revision C, February 1999)

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# KINSALE SEWERAGE SCHEME

# ENVIRONMENTAL IMPACT STATEMENT



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**COUNTY ENGINEER**  
**C.B. DEVLIN B.E., C.ENG.,**  
**F.I.E.I., M.I.A.T.**

**MALACHY WALSH & PARTNERS**  
**CONSULTING ENGINEERS:**  
**BOREENMANNA ROAD,**  
**CORK.**



**KINSALE SEWERAGE SCHEME**

**ENVIRONMENTAL IMPACT STATEMENT**

**FOR**

**CORK COUNTY COUNCIL**

**AND**

**KINSALE URBAN DISTRICT COUNCIL**

*Consulting Engineers:* **Malachy Walsh and Partners**, Consulting Engineers,  
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*Sub Consultants:*

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**Envirocon Ltd**, Navan, Co. Meath.

**Ms. Sheila Lane, MA, MEdPA**, University College Cork.

*Acknowledgements:*

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**Mr. Brendan Devlin**, County Engineer, Cork County Council

**Mr. Jack Matson**, Divisional Engineer, Cork County Council.

**Mr. Michael Lavelle**, SEE, Housing and Sanitary Dept., Cork County Council.

**Mr. Michael Murphy**, EE, Housing and Sanitary Dept., Cork County Council.

**Mr. Frank Morrison**, Area/Town Engineer, Kinsale, Co. Cork

**Mr. Derry Hayes**, A/Senior Staff Officer, Housing & Sanitary Dept, Cork County Council.

**Ms. Helen O'Donovan**, Town Clerk, Kinsale

**Mr. John O'Keeffe**, Divisional Engineer, Dept of the Marine and Natural Resources.

**Mr. Peter Cunningham**, Environmental Protection Agency.

**Mr. Andrew Peterson, PhD**, Environmental Services Laboratory, Cork Institute of Technology

**Hydrographic Surveys Ltd**, The Cobbles, Crosshaven, Co. Cork.

**Aquafact International Services Ltd.**, Liosbaun, Galway.

**MCS International**, Galway

*Aerial Photography:*

**Kevin Dwyer (Ireland) Ltd.**, Cork

**KINSALE SEWERAGE SCHEME**

**ENVIRONMENTAL IMPACT STATEMENT**

**FOR**

**CORK COUNTY COUNCIL**

**AND**

**KINSALE URBAN DISTRICT COUNCIL**

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Project No.	Rev	Date	Prepared By	Checked By	Approved By	Status
2328	A	19/11/1998	T. Hourihan	A.M. Moloney	A.M. Moloney	Draft
2328	B	16/02/1999	T. Hourihan	A.M. Moloney	A.M. Moloney	Revisions
2328	C	20/02/1999	T. Hourihan	A.M. Moloney	A.M. Moloney	Controlled

C.B. Devlin B.E., C.Eng., F.I.E.I., M.I.A.T.  
County Engineer  
Cork County Council  
County Hall, Cork

Malachy Walsh and Partners  
Consulting Engineers  
Boreenmanna Road  
Cork

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## ERRATA

During the public exhibition for the Environmental Impact Statement which was held in Kinsale on the 16<sup>th</sup> February, 1999, the following errors were found. These have been corrected for the production of this bound copy.

1. Figure 3.1: Parts of the line for the rising main and foul sewer at the south end of the Marsh and adjoining fields were found to be drawn incorrectly. The background colour of land boundaries was also changed in the interest of clarity.
2. Figure 3.2: Parts of the line for the storm sewer at the south end of the Marsh and adjoining fields were found to be drawn incorrectly. The position of the overflow was also corrected. The background colour of land boundaries was also changed in the interest of clarity.
3. Figure 3.3: The colour attributed to the outfall pipe did not match the legend and was changed. The background colour of land boundaries was also changed in the interest of clarity.
4. Extracts from the *Survey and Study of Harbour Waters*, prepared as part of the Preliminary Report, are reproduced in Appendix A in relation to the calibration and validation of the hydrodynamic model calibration and validation, and the dispersion model calibration and validation.

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## 0.0 NON-TECHNICAL SUMMARY

### 0.1 Introduction

- 0.1.1 Cork County Council propose to construct a modern municipal waste water treatment plant at Cappagh to serve the needs of Kinsale town and environs. The treatment facility would have a capacity to allow for future development and expansion.
- 0.1.2 Malachy Walsh and Partners, Consulting Engineers, have prepared this Environmental Impact Statement on behalf of Cork County Council and Kinsale Urban District Council.
- 0.1.3 Information on the project and its potential effects on the Kinsale area has been collected over an extended period since 1993. This information is presented in the EIS in ten sections. Alternative sites and technologies are considered, followed by a detailed design of the proposed scheme. The effects of the development on key aspects such as human environment, water quality, landscape, ecology, air, noise and cultural heritage are also investigated.
- 0.1.4 A non-technical summary of the environmental impact study is presented below.

### 0.2 Non-Technical Summary

- 0.2.1 Currently, the town of Kinsale has a collection system which cannot cope with the development pressures being applied. While no formal treatment of effluent takes place, a portion of the discharge is broken into fine particles prior to discharge to the harbour.
- 0.2.2 Under an EC Directive all waste water entering collection systems shall be subject to treatment prior to discharge. In the case of Kinsale and environs, the latest date for compliance with the Directive is 31 December 2005.
- 0.2.3 Under the proposals for the Scheme, the Town and environs would be served by an upgraded collection system which will combine all untreated foul discharges and pump these forward to a single treatment location to be provided. Following appropriate treatment at this location, the effluent would be discharged to the Estuary.
- 0.2.4 In all, five sites within the environs of Kinsale were reviewed as potential treatment works locations. These were pre-selected on the basis of engineering, cost, and environmental criteria. Chief among the environmental considerations were the potential effects upon landscape, ecology and cultural heritage. The sites included one at James Fort, two near Charles Fort, one at Commoge and one at Cappagh.
- 0.2.5 The site at Cappagh was originally selected. Subsequent to this, land adjacent to the original selected site became available. This land was then investigated and found to be appropriate. It has ready access, in contrast to the downriver locations. The ground is relatively flat but at a workable engineering level. Its present

concealment can be readily enhanced. The available dilution in the river and the other characteristics of the waterway are favourable to the discharge of the treated effluent. A positive improvement would also be the designation of the Kinsale Marsh as a nature reserve.

- 0.2.6 Water quality within the harbour and estuary would be significantly improved by the introduction of a waste water treatment plant. Benefits would accrue to shellfish producers, anglers, bathers, fishermen, leisure boat users and to all who appreciate a cleaner water environment. It would also contribute to enhanced economic and physical development of the town.
- 0.2.7 The location of the site on the boundary of two landscape types provides the opportunity to undertake transitional planting between the two landscapes. In this case, from woodland copse to wetland scrub. Alder and willow planted along the margin of the waste water treatment plant site adjoining the marsh would reflect the woodland on the far side. The access road would also be screened by alder woodland, linking the top of the marsh with a belt of woodland.
- 0.2.8 All views of the waste water treatment plant would be screened, except from Compass Hill where the proposed woodland would compensate for the partial visibility of the site. The visual impact would be slight.
- 0.2.9 The permanent above-ground features of the proposed development (the treatment plant and the access road) do not affect any features of significant ecological value. The pipelines do run through some habitats of ecological importance. However, the areas affected are small and, in the long term (10+ years), the affected habitats are likely to substantially recover (especially if the mitigation measures described in this EIS are implemented).
- 0.2.10 The proposed development is, therefore, unlikely to have any significant negative long-term ecological impacts. The proposed habitat creation and landscape planting would, if correctly implemented, have positive ecological impacts.
- 0.2.11 Noise emissions from activities related to the proposed sewage works would not have a significant effect on the existing noise environment in the surrounding area.
- 0.2.12 Overall, the design and operation of the waste water treatment plant would ensure that odorous emissions are kept to a minimum. The predicted short-term maximum ground level odour concentrations are very low at the nearest private properties. The site is relatively remote, with areas where odours might be generated being over 300 m from the nearest housing. The predicted odour levels at this distance downwind are well below the values likely to result in complaints. The prevailing weather conditions would also aid rapid dilution of any odour from the various components of the treatment plant. No adverse impact on the air quality of the area at the nearest residential properties is therefore predicted.
- 0.2.13 No archaeological sites were noted above ground level on the site of the proposed waste water treatment plant. However, it is possible that some sites may remain undetected below ground level at the site and in the environs of Kinsale. All topsoil removal and any other subsurface disturbance caused by the development

would be monitored by an archaeologist to mitigate impact on possible archaeological remains which may occur below ground level. Care would also be taken to ensure the safety of potential underwater archaeology.

- 0.2.14 It should be noted, however, that temporary and locally significant disruptive impacts may occur during the construction phase of the collection system in built-up areas. These impacts may include noise, dust, restrictive access for pedestrians and traffic. To minimise the potential for these effects, a traffic and construction plan would be drawn up and agreed with local organisations and residents before works commence. This short term disruption, however, would be outweighed in the long term by the significant positive effect of the works and its collection system on the economic well being of Kinsale.

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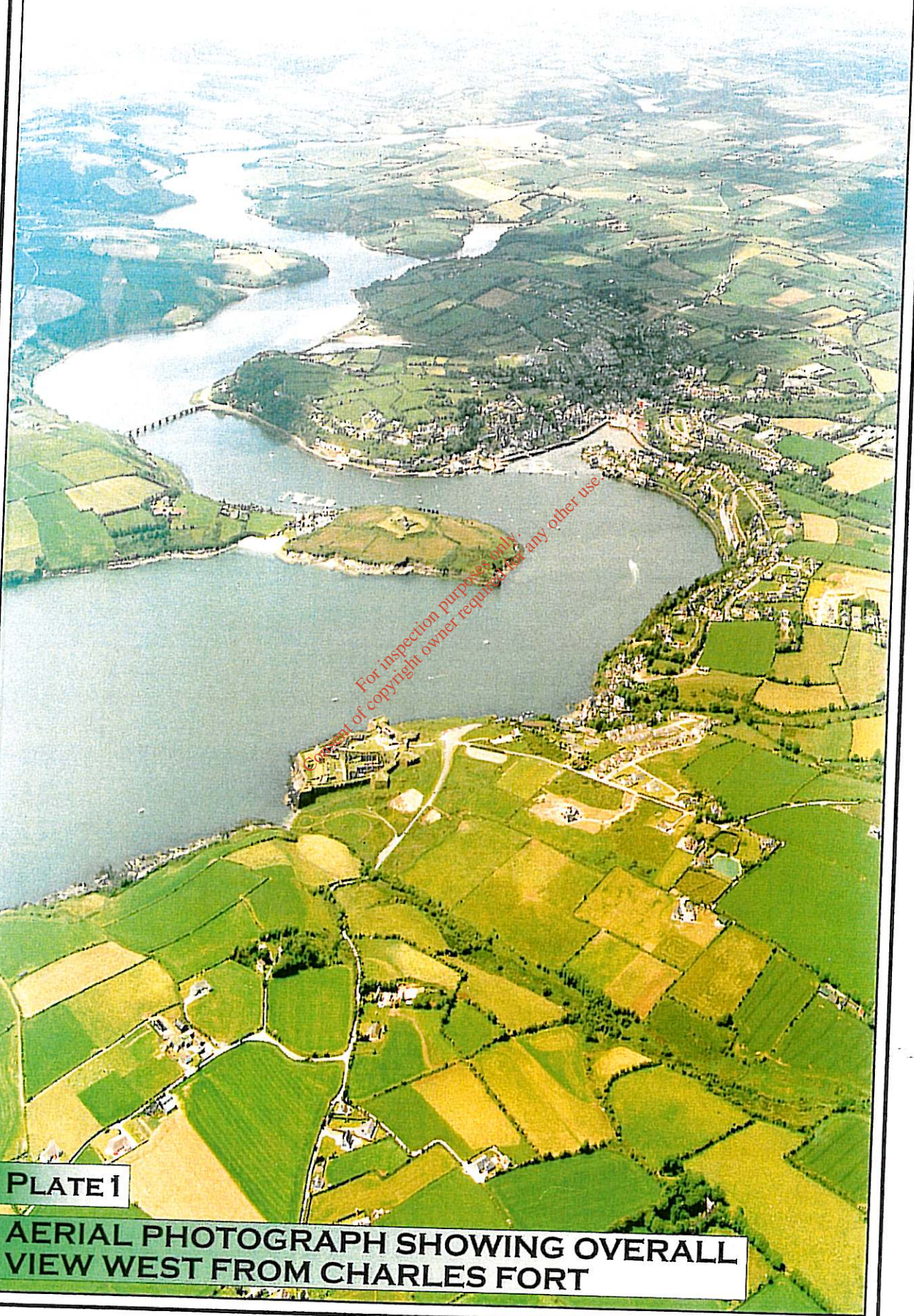


PLATE 1

AERIAL PHOTOGRAPH SHOWING OVERALL VIEW WEST FROM CHARLES FORT