

Section A

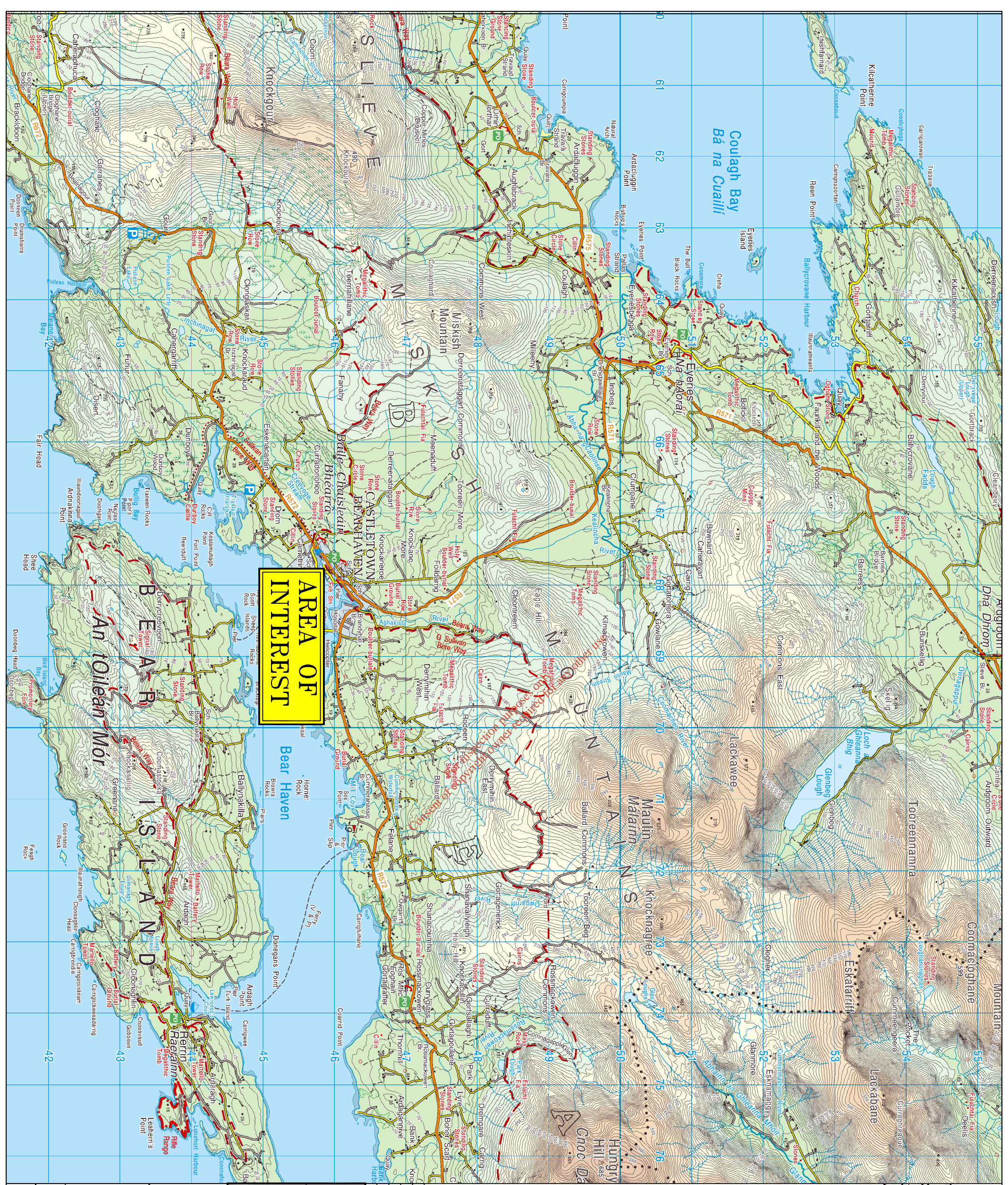
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Attachment A1

Map:

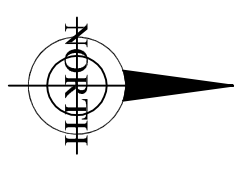
- CAST A1-01 - Site Location Map of Agglomeration

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NOTES

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No.	Date	Rev	Description

**Cork County Council,
Western Division.**

N.O'MAHONY,B.E.
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SHABBEREN.
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK



Job Title:
CASTLETOWNBERE_WASTE WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT_A1
SITE_LOCATION_MAP

Prepared By: J.CREAGH	Checked By: O.O'BRIEN	Date: FEB.2009
Drawing number: CAST_A1_01	Scale: 1/50000	Rev: -

Section B

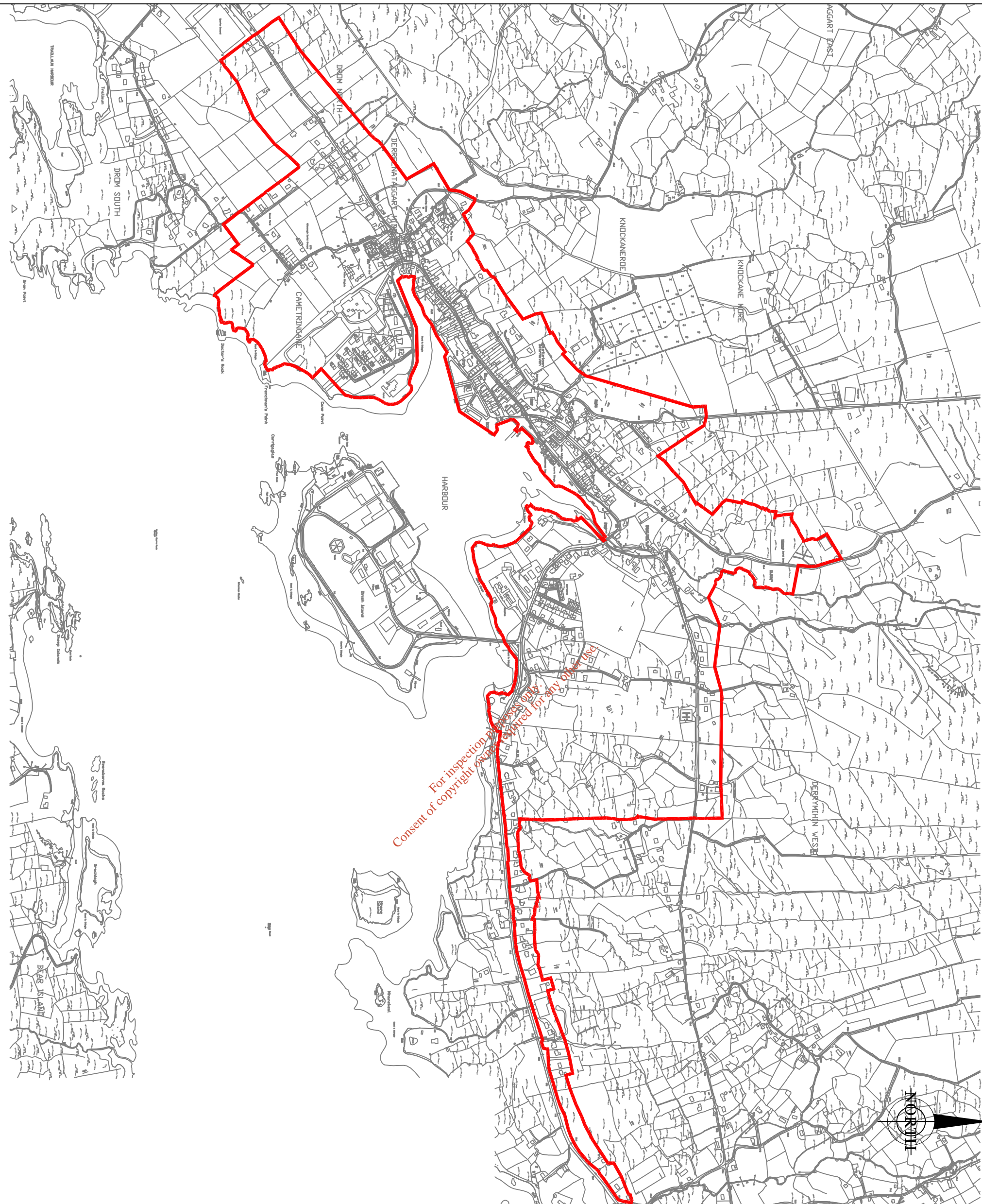
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Attachment B1

Drawing:

- CAST B1-01 - Castletownbere Agglomeration Boundary Map

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LEGEND
 — AGGLOMERATION BOUNDARY

No.	Date	Drawn	Checked	Revision Description

Cork County Council,
 Western Division.



N. O'MAHONY, B.E.
 SENIOR ENGR. (WATER SERVICES),
 COURTHOUSE, SHIBBEREN,
 M. MURRELL,
 DIRECTOR OF SERVICES
 WEST CORK

Job Title:
 CASTLETOWNBERE_WASTE_WATER
 DISCHARGE_LICENCE_APPLICATION

Drawing Title:
 ATTACHMENT_B1
 AGGLOMERATION_BOUNDARY
 SERVED_BY_WASTE_WATER
 TREATMENT_PLANT

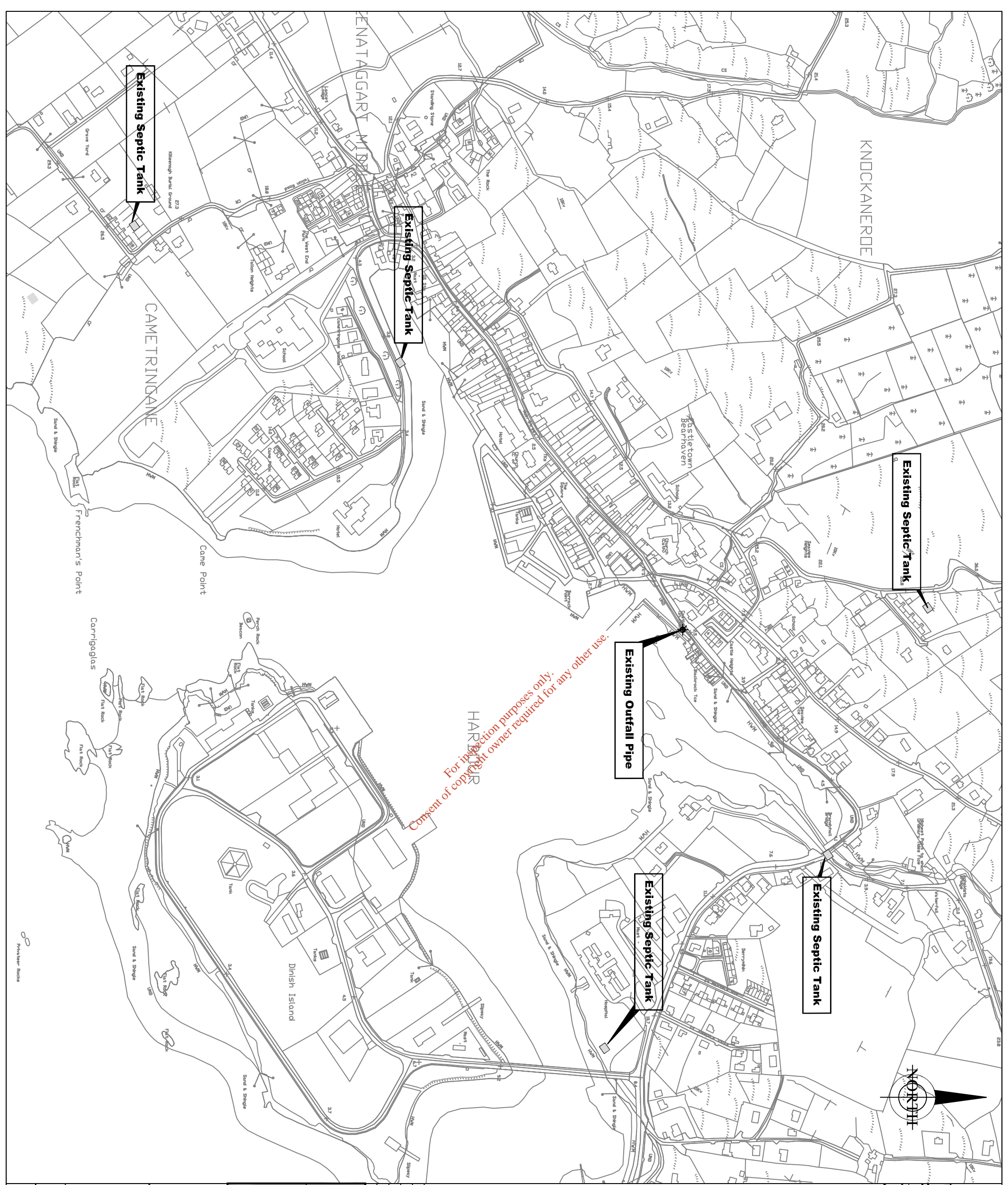
Prepared By: J. CREAGH	Checked By: O. O'BRIEN	Date: FEB. 2009
Drawing number: CAST_B1_01	Scale: 1:10000	Rev: -

Attachment B2

Map :

- CAST B2-01 – Site Location Map of Existing Wastewater Treatment Plants

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Cork County Council,
Western Division.



N. O'MAHONY, B.E.
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SHIBBEREN.
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
CASTLETOWNBERE_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT_B.2
EXISTING_WWTP
SITE_LOCATION_PLAN

No.	Date	Drawn	Checked	Revision Description

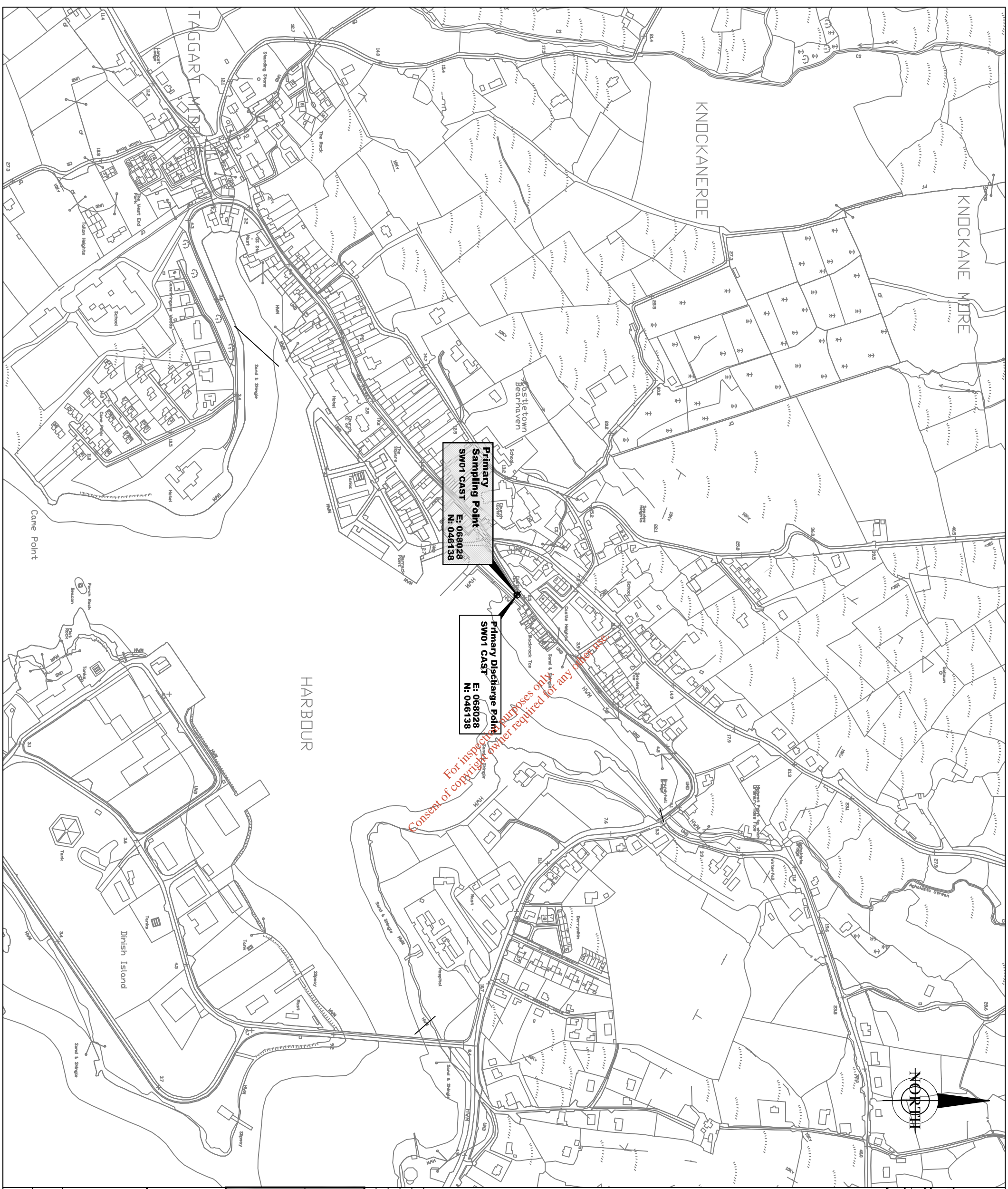
Prepared By: J. CREAGH	Checked By: O. O'BRIEN	Date: FEB. 2009
Drawing number: CAST_B2_01	Scale: 1:5000	Rev: -

Attachment B3

Map :

- CAST B3-01 – Existing Primary Discharge Point

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**Cork County Council,
Western Division.**



N. O'MAHONY, B.E.
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SHIBBEREN.
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
CASTLETOWNBERE_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT_B3
EXISTING_PRIMARY
DISCHARGE_POINT

No.	Date	Drawn	Checked	Revision Description

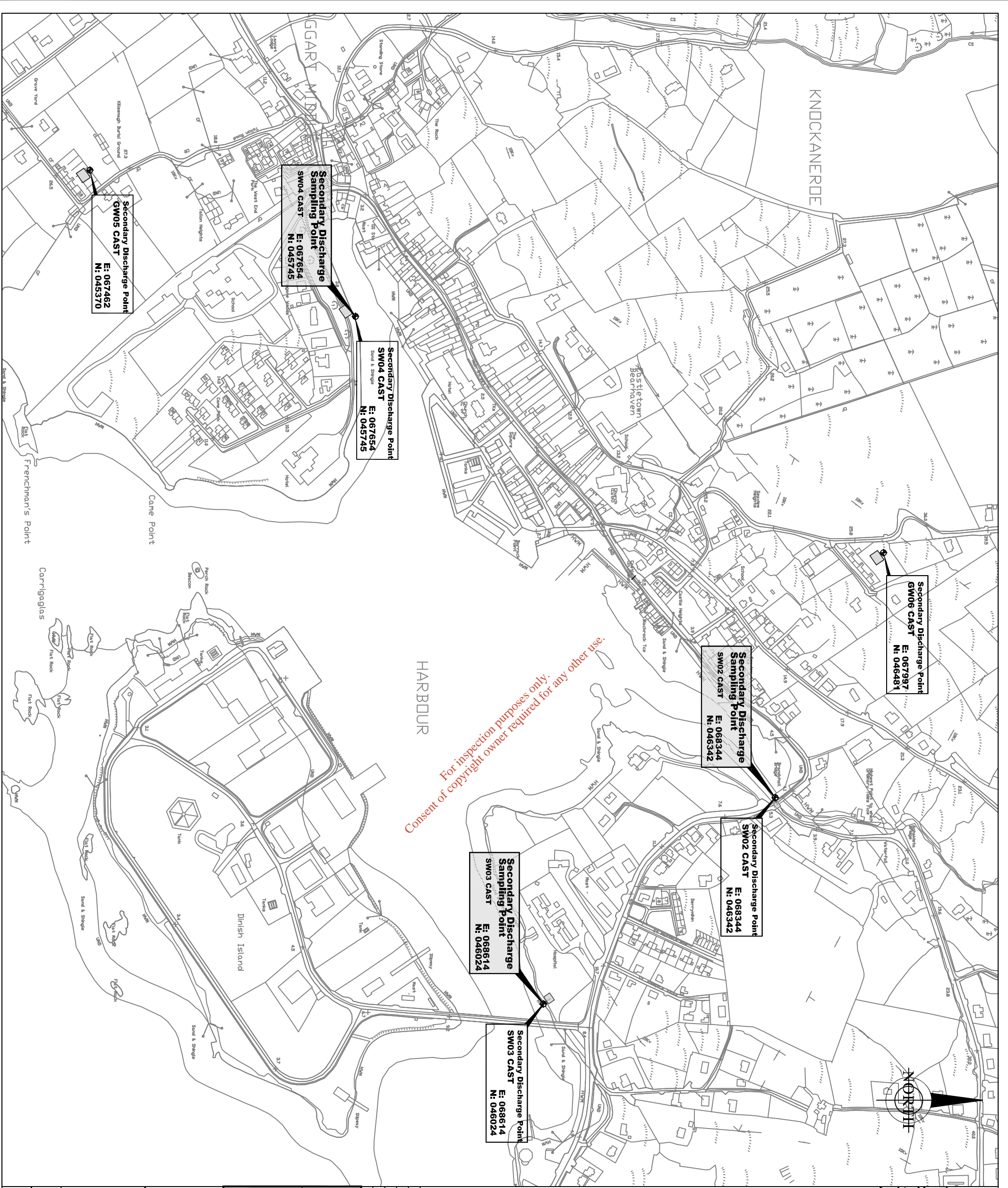
Prepared By: J. CREAGH	Checked By: O. O'BRIEN	Date: FEB. 2009
Drawing number: CAST_B3_01	Scales: 1:5000	Rev: -

Attachment B4

Map :

- CAST B4-01 – Existing Secondary Discharge Points

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No.	Date	Drawn	Checked	Revision Description

Cork County Council,
Western Division.



N.O'MAHONY,B.E.
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SHARRIFKENNY,
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
CASTLETOWNBERE_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT_B4
EXISTING_SECONDARY
DISCHARGE_POINT

Prepared By: J.CREAGH	Checked By: O.O'BRIEN	Date: FEB.2009
Drawing number: CAST_B4_01	Scales: 1:5000	Rev: -

Attachment B8

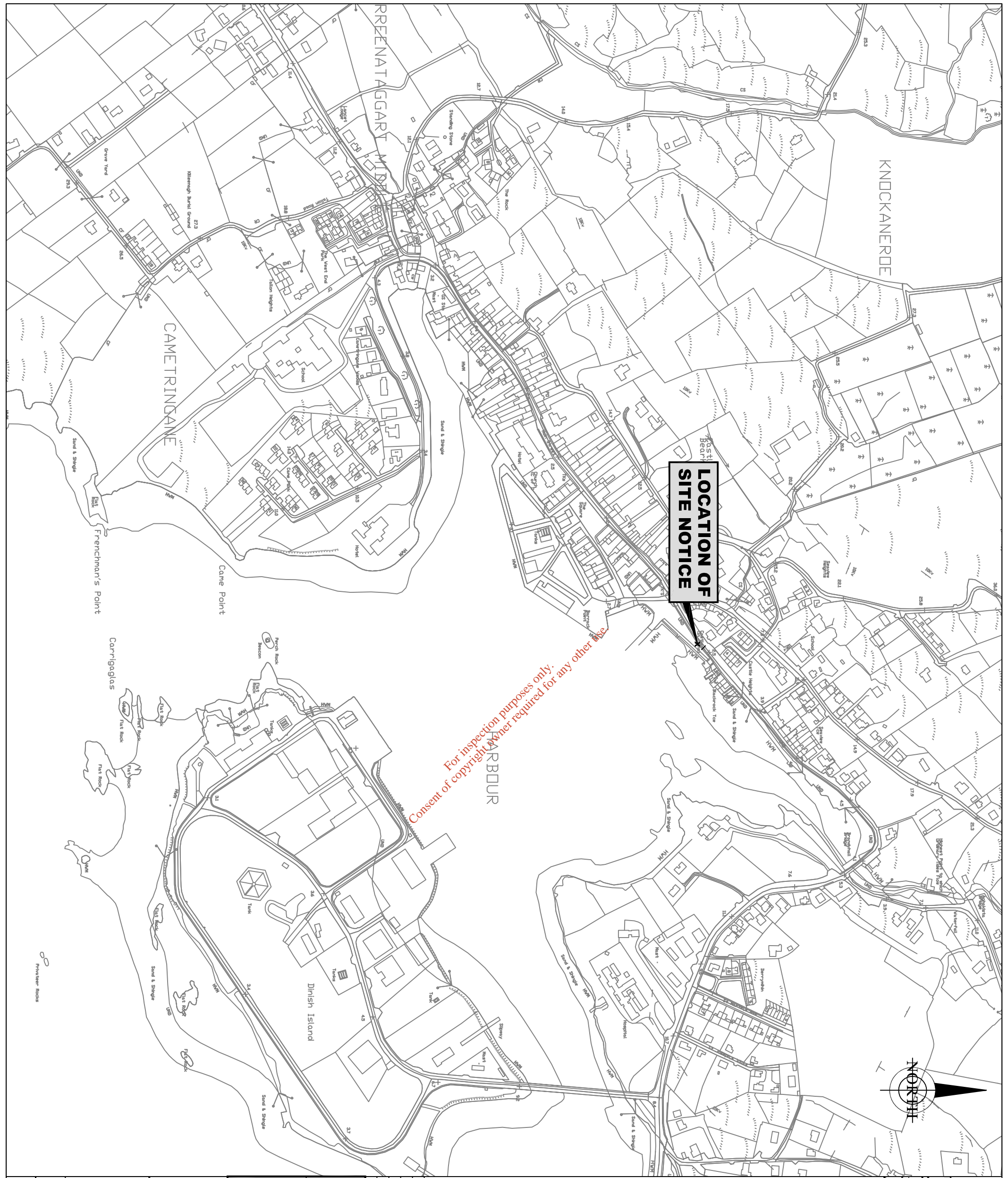
Map :

- CAST B8-01 – Site Notice Locations

Supporting Information :

- Site Notice
- Newspaper Advertisement

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Cork County Council,
Western Division.

N. O'MAHONY, B.E.
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SHIBBEREN,
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK



Job Title:
CASTLETOWNBERE_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT_B8
POSITION_OF_SITE_NOTICE

Prepared By	Checked By	Date
J. CREAGH	O. O'BRIEN	FEB. 2009
Drawing number: CAST_BR_01	Scales: 1:5000	Rev -



CORK COUNTY COUNCIL SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Western Division, Cork County Council, Courthouse, Skibbereen is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for Castletownbere agglomeration at the following locations:

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Major	Foildarrig	Castletownbere Harbour	E68028 N46138
Secondary	Minor	Derrymihin West	Castletownbere Harbour	E68344 N46342
Secondary	Minor	Derrymihin West	Castletownbere Harbour	E68614 N46024
Secondary	Minor	Cametringane	Castletownbere Harbour	E67654 N45745
Secondary	Minor	Drom North	Groundwater	E67462 N45370
Secondary	Minor	Foildarrig	Groundwater	E67997 N46481

A copy of the application for the Waste Water Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email: info@epa.ie

and at

- Cork County Council Water Services (Western Division), Courthouse, Skibbereen, Co. Cork ; Telephone: 028-21299 Fax: 028-21995.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Licence for the Agglomeration of Ladysbridge at the following locations:

Plant Name	Location	National Grid Ref.
Ladysbridge WWTP	Carewood, Ladysbridge	E197033 N071948

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Ladysbridge	Womanagh	E197057 N071972

A copy of the application for the Wastewater Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Tel: 021-4276891; Fax: 021-4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the Agglomeration of Ballymakeera & Ballyvourney at the following locations:

Plant Name	Location	National Grid Ref.
Ballymakeera WWTP	Fair Green, Ballymakeera	E121370 N076407

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Ballymakeera	Sullane	E121490 N076158

A copy of the application for the Wastewater Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Tel: 021-4276891; Fax: 021-4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the Agglomeration of Cloughduv at the following locations:

Plant Name	Location	National Grid Ref.
Cloughduv WWTP	Coolmucky, Cloughduv	E145395 N066630

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Coolmucky	River Brouen	E145099 N066702
Primary (Proposed)	Main	Ryecourt	River Bride	E145318 N067565

A copy of the application for the Wastewater Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Tel: 021-4276891; Fax: 021-4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Plant Name	Location	National Grid Ref.
Killeens WWTP	Rathpeacon, Killeens	E164092 N075447

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Monard	Blarney River	E163793 N075646

A copy of the application for the Wastewater Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Tel: 021-4276891; Fax: 021-4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

WESTERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Western Division, Cork County Council, Courthouse, Skibbereen, Co. Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for Castletownbere agglomeration at the following locations:

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Major	Foildarrig	Castletownbere Harbour	E68028 N46138
Secondary	Minor	Derrymihin West	Castletownbere Harbour	E68344 N46342
Secondary	Minor	Derrymihin West	Castletownbere Harbour	E68614 N46024
Secondary	Minor	Cametringane	Castletownbere Harbour	E67654 N45745
Secondary	Minor	Drom North	Groundwater	E67462 N45370
Secondary	Minor	Foildarrig	Groundwater	E67997 N46481

A copy of the application for the Wastewater Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Water Services, Courthouse, Skibbereen, Co. Cork, Tel: 028-21299; Fax: 028-21995.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, S.I. No. 684 of 2007, Water Services (Western Division), Cork County Council, Courthouse, Skibbereen, Co. Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for Schull Agglomeration at the following locations:

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Major	Meenvane	Schull Harbour	E093171 N031557
Secondary	Minor	Skull	Schull Harbour	E092885 N031142

Cork County Council proposes to provide a wastewater treatment plant at Meenvane, Schull, Co. Cork, Grid Reference (093057E, 031613N). It is proposed to discharge treated wastewater from this plant to Long Island Channel. The proposed location is detailed in the table below:

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Major	Colla	Long Island Channel	E092558 N029466

A copy of the application for the Wastewater Discharge Licence, and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Water Services, Courthouse, Skibbereen, Co. Cork, Tel: 028-21299; Fax: 028-21995.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email:info@epa.ie

and at

- Cork County Council Water Services, Courthouse, Skibbereen, Co. Cork, Tel: 028-21299; Fax: 028-21995.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

FORM OF NOTICE OF A COMPULSORY PURCHASE ORDER UNDER SECTION 76 OF AND THE THIRD SCHEDULE TO THE HOUSING ACT, 1966, AS EXTENDED BY SECTION 10 OF THE LOCAL GOVERNMENT (NO. 2) ACT, 1960, TO BE PUBLISHED IN ACCORDANCE WITH ARTICLE 4 (a) OF THE THIRDS SCHEDULE TO THE HOUSING ACT, 1966, AS AMENDED BY THE PLANNING AND DEVELOPMENT ACT, 2000

COMPULSORY ACQUISITION OF LAND

Cork County Council Aherla Water Supply Scheme Compulsory Purchase Order 2009

The Cork County Council (hereinafter referred to as "the local authority"), in exercise of the powers conferred upon them by section 76 of the Housing Act, 1966, and the Third Schedule thereto, as extended by section 10 of the Local Government (No. 2) Act, 1960 as substituted by section 86 of the Housing Act, 1966 amended by section 6 and the Second Schedule to the Roads Act 1993 and as amended by the Planning and Development Act, 2000 have made an order entitled as above which is about to be submitted to An Bord Pleanála for confirmation. If confirmed, the order will authorise the local authority to acquire compulsorily land described in the Schedule hereto for the purposes of the Aherla Water Supply Scheme.

Owners, lessees and occupiers of the land described in the Schedule hereto will receive individual written notice.

The Board cannot confirm a compulsory purchase order in respect of the land if an objection is made in respect of the acquisition by an owner, lessee or occupier of the land, and not withdrawn, until it has caused to be held an oral hearing into that matter and until it has considered the objection and the report the person who held the oral hearing.

A copy of the order and of the map referred to in it may be seen all reasonable hours at (1) Property & Housing Capital Department, Floor 11, County Hall, Cork or (2) Water Services Investment Project Office, Cork County Council, Model Busine Park, Model Farm Road, Cork.

SCHEDULE

Land other than land consisting of a house or houses unfit for human habitation and not capable of being rendered fit for human habitation at reasonable expense.

Number on map deposited at the offices of the local authority	Quantity, description and situation of the land	Owners or reputed owners	Lessees or reputed lessees	Occupiers (except tenants a month or a less period than a month)
CP 1	Area Ha: 0.2102 Type: Land Townland: Aherla DED: Templemartin County: Cork	Sean & Bridget Desmond, Kilcrea, Ovens, Co. Cork.	None	Owner

Dated this 20th day of February, 2009
Maurice Manning, Senior Executive Officer

CLOSING DATE FOR HIGHER EDUCATION GRANT APPLICATIONS

The closing date for receipt of Higher Education Grant applications for the 2008/09 academic year is February 27th, 2009. Cork County Council's Higher Education Grants Office will not accept applications after this date.

Attachment B9

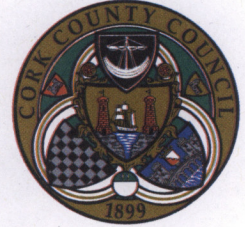
Supporting Information :

- Application Fee

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Comhairle Contae Chorcaí Cork County Council

Courthouse,
Skibbereen, Co. Cork.
Tel (028) 21299 • Fax (028) 21995
Web: www.corkcoco.ie
Teach na Cúirte,
An Sciobairín, Co. Chorcaí.
Fón: (028) 21299 • Faics: (028) 21995
Suíomh Gréasáin: www.corkcoco.ie



Mr. Declan Groarke,
Senior Executive Engineer,
Cork County Council,
Courthouse,
Skibbereen.

Re:- Waste Water Discharge Regulations 2007. Application to EPA for Licences – 3rd Round Fees:

Dear Declan,

With regard to the application to the EPA for a Discharge Licences for the agglomerations with P.E.s of 1001 to 2000 listed below, I confirm the following in relation to the application fee of €60,000 (being €15,000 for each agglomeration). :-

Transferred to EPA Bank Account:- **Account No. 23507098**

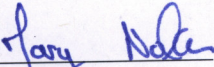
Date Transferred to EPA Bank Account: **13th February 2009**

Electronic Fund Transfer Reference No.:- **1070025.**

Agglomerations : **Baltimore**
Castletownbere
Courtmacsherry
Schull

This information should be included with the application to the EPA.

Yours faithfully,


Mary Nolan,
Staff Officer.



Attachment B10

Supporting Information :

- Details of Approved Funding

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Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	W/S	Est. Cost
Cork North				
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000		
Cork South				
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000		
Cobh/ Middleton/ Carrigtwohill Water Supply Scheme	W	10,135,000		
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000		
Cork Water Strategy Study (G)	W	941,000		
Kinsale Sewerage Scheme	S	20,000,000		
Middleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000		
		41,274,000		
Schemes to start 2007				
Cork North				
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000		
Cork West				
Skibbereen Sewerage Scheme	S	20,000,000		
		25,150,000		
Schemes to start 2008				
Cork North				
Mallow/ Ballyvinter Regional Water Supply Scheme (H) W		8,632,000		
Mallow Sewerage Scheme (H)	S	5,408,000		
Cork South				
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000		
Ballingeary Sewerage Scheme	S	1,296,000		
Bandon Sewerage Scheme Stage 2	S	14,729,000		
City Environs (CASP) Strategic Study (G)	S	153,000		
Cloghroe Sewerage Scheme (Upgrade)	S	683,000		
Coachford Water Supply Scheme	W	1,318,000		
Garretstown Sewerage Scheme	S	2,153,000		
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000		
Little Island Sewerage Scheme (G)	S	2,200,000		
Cork West				
Bantry Sewerage Scheme	S	7,148,000		
Dunmanway Sewerage Scheme	S	2,153,000		
Leap/ Ballimore Water Supply Scheme	W	6,365,000		
Schull Water Supply Scheme	W	5,253,000		
		61,137,000		
Schemes to start 2009				
Cork North				
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000		
Conna Regional Water Supply Scheme Extension	W	2,627,000		
Cork NE Water Supply Scheme	W	4,326,000		
Cork NW Regional Water Supply Scheme	W	6,046,000		
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000		
Cork South				
Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000		
Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)	S	73,542,000		
Shannagary/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000		
Youghal Sewerage Scheme	S	14,420,000		
Cork West				
Ballydehob Sewerage Scheme	S	683,000		
Bantry Water Supply Scheme	W	14,935,000		
Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000		
Courtnacsherry/ Timoleague Sewerage Scheme	S	2,472,000		
Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000		
				164,629,000
Serviced Land Initiative				
Cork North				
Ballycough Water Supply Scheme	W	139,000		
Ballyhooley Improvement Scheme	W/S	139,000		
Brookhill-Rathgoggin Sewerage Scheme	S	406,000		
Bweeny Water Supply Scheme	W	115,000		
Churchtown Sewerage Scheme (incl. Water)	W/S	543,000		
Clondulane Sewage Treatment Plant	S	417,000		
Freemount Sewerage Scheme	S	150,000		
Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000		
Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000		
Spa Glen Sewerage Scheme	S	736,000		
Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000		
Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000		
Cork South				
Ballincollig Sewerage Scheme (Barry's Rd Foul and Storm Drainage) (G)	S	1,164,000		
Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000		
Blamey Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000		
Carriegtwohill Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000		
Castlematyr Wastewater Treatment Plant Extension	S	1,200,000		
Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000		
Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000		
Glounthane Sewerage Scheme (G)	S	1,576,000		
Innishannon Sewerage Scheme	S	277,000		
Innishannon Wastewater Treatment Plant	S	694,000		
Kerynpike Sewerage Scheme	S	832,000		
Kerynpike Water Supply Scheme	W	416,000		
Killeagh Wastewater Treatment Plant Extension	S	1,200,000		
Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000		
Killeens Sewerage Scheme	S	420,000		
Kilnagleary Sewerage Scheme	S	694,000		
Middleton Wastewater Treatment Plant Extension	S	4,050,000		

Cork County contd.

Water Services Investment Programme 2007 - 2009

	W/S	Est. Cost		W/S	Est. Cost
Mogeely, Castlemartyr & Ladysbridge Water Supply Scheme	W	2,566,000	Cork South		
North Cobh Sewerage Scheme (G)	S	3,193,000	Carrigtwohill Sewerage Scheme (G)	S	20,000,000
Riverstick Water Supply Scheme (incl. Sewerage)	W/S	525,000	Cork Sludge Management (G)	S	14,420,000
Rochestown Water Supply Scheme	W	2,700,000	Cork Water Supply Scheme (Storage - Mount Emla, Ballincollig & Chetwind) (G)	W	8,500,000
Saleen Sewerage Scheme	S	1,051,000	Inniscarra Water Treatment Plant (Sludge Treatment)(G)W		5,356,000
Youghal Water Supply Scheme	W	2,300,000	Macroon Sewerage Scheme	S	5,150,000
			Minane Bridge Water Supply Scheme	W	1,421,000
Cork West					
Castletownshend Sewerage Scheme	S	1,576,000	Cork West		
		50,797,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
Rural Towns & Villages Initiative			Cape Clear Water Supply Scheme	W	1,679,000
Cork North			Castletownbere Regional Water Supply Scheme	W	8,405,000
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Glengarriff Sewerage Scheme	S	2,500,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000	Roscarberry/Owenahincha Sewerage Scheme	S	1,576,000
			Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
Cork South					95,646,000
Innishannon (Ballinadee/ Ballinspittle/ Garrettstown) Water Supply Scheme	W	6,726,000	Water Conservation Allocation		12,206,000
			Asset Management Study		300,000
Cork West			South Western River Basin District (WFD) Project¹		9,400,000
Ballylicky Sewerage Scheme	S	2,153,000			
Baltimore Sewerage Scheme	S	3,762,000			
Castletownbere Sewerage Scheme	S	5,302,000			
Schull Sewerage Scheme	S	3,523,000			
		24,950,000	Programme Total		485,489,000
Schemes to Advance through Planning					
Cork North					
Mitchelstown North Galtees Water Supply Scheme	W	3,152,000			
Mitchelstown Sewerage Scheme	S	3,000,000			
Newmarket Sewerage Scheme	S	3,152,000			

¹ This project is being led by Cork County Council on behalf of other authorities in the River Basin District

(H) Refers to a Hub as designated in the National Spatial Strategy

(G) Refers to a Gateway as designated in the National Spatial Strategy

Section E

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Attachment E2

Supporting Information :

- Monitoring Programme

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Attachment E.2 - Castletownbere Waste Water Discharge Licence **Application – Monitoring and Sampling Points**

Grab samples have been collected recently of the effluent from the primary and secondary discharges as well as receiving waters and the results are included in Attachments E.4 and F.1 of this application.

Upstream and downstream samples are not relevant in this case as the discharge is below low tide water level. Sampling of receiving waters was carried out at the opposite side of the Harbour at Dinish Island.

There is no drinking water abstraction point downstream of the plant and therefore the Abstraction Directive is not applicable. Neither is there Shellfish Waters in the estuary.

The recent sample analysis has been carried out by the Laboratory of Cork County Council which is accredited for a number of analytical tests under the Irish National Accreditation Board (INAB) under the ISO 17025 international standard. It is currently accredited for the following parameters under that standard system:

- pH
- Biochemical Oxygen Demand
- Chemical Oxygen Demand
- Suspended Solids
- Ammonia
- Ortho Phosphate
- Total Phosphate
- Chloride
- Sulphate

It is proposed to sample the influent and effluent from septic tanks where accessible and receiving waters once a year in the future for the following parameters at the Cork County Council Laboratory in Skibbreen:

- pH
- Biochemical Oxygen Demand
- Chemical Oxygen Demand
- Suspended Solids
- Ammonia
- Ortho Phosphate
- Total Nitrogen

When the proposed WWTP for Castletownbere is constructed a comprehensive monitoring and sampling programme will be undertaken by Cork County Council in accordance with the relevant standards and requirements.

Attachment E4

Supporting Information :

- Sampling Data

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Attachment E4 Castletownbere Discharge Outlet Table E4

Sample Date	30/10/2008	10/12/2008		30/10/2008	10/12/2008		30/10/2008	30/10/2008	30/10/2008	30/10/2008	10/12/2008		30/10/2008
Sample	Effluent	Effluent	Average	Effluent	Effluent	Average	Effluent	Effluent	Effluent	Effluent	Effluent	Average	Effluent
Source	No 1	No 1		No 2	No 2		No 3	No 4	No 5	No 6	No 6		No 7
Sample Code	GS1185	GS1360		GS1186	GS1361		GS1187	GS1188	GS1189	GS1190	GS1359		GS1191
Flow M ³ /Day	*	*	*	*	*	*	*	*	*	*	*	*	*
pH	7.8	*	7.8	6.8	*	6.8	6.9	7	8.3	6.7	*	6.7	8.2
Temperature °C	*	*	*	*	*	*	*	*	*	*	*	*	*
Cond 20°C	395	*	395	256	*	256	357	337	912	2200	*	2200	4730
SS mg/L	86	*	86	54	*	54	129	54	95	287	*	287	115
NH ₃ mg/L	2.6	*	2.6	6.7	*	6.7	1.5	20.3	49.3	124.1	*	124.1	0.6
BOD mg/L	92.4	*	92.4	44.1	*	44.1	124.8	83.6	208.4	1887	*	1887	5.23
COD mg/L	239	*	239	121	*	121	262	251	502	2537	*	2537	24
TN mg/L	12	*	12	<1	*	<1	54	24	49	123	*	123	<1.0
Nitrite mg/L	0.399	*	0.399	0.052	*	0.052	0.433	0.047	0.007	0.007	*	0.007	0.029
Nitrate mg/L	1.09	*	1.09	1.45	*	1.45	1.11	<0.405	<0.405	<0.405	*	<0.405	<0.405
TP mg/L	2.5	*	2.5	0.3	*	0.3	1.5	3.8	9.9	10.3	*	10.3	0.3
O-PO4-P mg/L	0.58	*	0.58	0.67	*	0.67	0.29	2.66	8.14	88.85	*	88.85	<0.05
SO ₄ mg/L	<30	*	<30	<30.0	*	<30.0	<30.0	*	82.2	427	*	427	2565.4
Phenols µg/L	8	<0.10	4.025	20	<0.10	10.025	120	700	800	5500*	<0.10	<0.10	<5
Atrazine µg/L	<0.01	5.03	2.54	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.05	<0.01	0.015	<0.01
Dichloromethane	26.7	<1	13.38	9.6	<1	4.825	<5.0	<0.02	<5.0	<5.0	<1	3	<5.0
Simazine µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.01	15	<0.01
Toluene µg/L	<0.1	22.041	11.05	<0.1	2.172	1.111	<0.1	<0.1	<0.1	<0.1	3.419	1.735	<0.1
Tributyltin µg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
Xylenes µg/L	<0.2	<1	<0.6	<0.2	<1	0.3	<0.2	<0.2	<0.2	<0.2	<1	0.3	<0.2
Arsenic µg/L	1	2.1	1.55	0.5	<0.96	0.49	<0.2	0.8	2.5	39.5	184.4	111.95	<0.2
Chromium mg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
Copper mg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	0.027	0.035	*	0.035	<0.02
Cyanide µg/L	16	<5	9.25	47	7	27	7	24	31	77	40	58.5	<5.0
Fluoride µg/L	310	*	310	70	*	70	170	290	300	740	*	740	360
Lead mg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
Nickel mg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
Zinc mg/L	0.115	*	0.115	0.025	*	0.025	0.031	0.056	0.057	0.613	*	0.613	<0.02
Boron mg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	0.035	0.068	0.615	*	0.615	3.234
Cadmium mg/L	<0.02	*	<0.02	<0.02	*	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
Mercury µg/L	<0.02	<0.2	0.055	<0.02	<0.2	0.055	<0.02	<0.02	<0.02	5.05	0.2	2.625	0.03
Selenium µg/L	1.2	7.3	4.25	0.7	2.6	1.65	0.5	<0.2	1.1	5.1	671.3	338.2	32.3
Barium mg/L	0.026	*	0.03	0.038	*	0.038	<0.02	0.036	<0.02	0.132	*	0.132	<0.02

Location No 1 Sump at hospital Car park
 Location No 2 Brandyhall Bridge
 Location No 3 Main Street
 Location No 4 reference to map
 Location No 5 reference to map
 Location No 6 Dinish Island Outfall
 Location No 7 Bere Island side of Dinish Island

* Matrix interference from Suspended solids in test

values recorded as 1/2 the LOD for statistical purposes in average column

Section G

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Attachment G1

Supporting Information :

- Recent Programme of Works

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Attachment G1 Recent Programme of Works

A new Wastewater Treatment Plant is proposed for Castletownbere and is included in the WSIP 2007-2009 funding.

Likely Timeframes for the Works:

1. **Design period + Receipt of Tenders – December 2012**
2. **Start construction – June 2013**
3. **Completion of Works – June 2014**

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Agglomeration details

Leading Local Authority	Cork County Council
Co-Applicants	
Agglomeration	Castletownbere
Population Equivalent	2000
Level of Treatment	Primary
Treatment plant address	Castletownbere Co. Cork
Grid Ref (12 digits, 6E, 6N)	068028 / 046138
EPA Reference No:	

Contact details

Contact Name:	Declan Groarke
Contact Address:	Water Services West, Cork County Council, Courthouse, Skibbereen, Co. Cork
Contact Number:	028 21299
Contact Fax:	028 21995
Contact Email:	declan.groarke@corkcoco.ie

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Table D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS (Primary Discharge Point)

Discharge Point Code: SW-1

Local Authority Ref No:	SW01
Source of Emission:	Primary Discharge
Location:	Castletownbere Harbour
Grid Ref (12 digits, 6E, 6N)	068028 / 046138
Name of Receiving waters:	Castletownbere Harbour
Water Body:	Coastal Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	None
Flow Rate in Receiving Waters:	0 m ³ .sec ⁻¹ Dry Weather Flow 0 m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Zero flow as receiving waters tidal

Emission Details:

(i) Volume emitted			
Normal/day	367 m ³	Maximum/day	1101 m ³
Maximum rate/hour	45.9 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.01 m ³ /sec		

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Table D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 0	
Suspended Solids	mg/l	Grab	= 500	183.5
Ammonia (as N)	mg/l	Grab	= 0	0
Biochemical Oxygen Demand	mg/l	Grab	= 300	110.1
Chemical Oxygen Demand	mg/l	Grab	= 600	220.2
Total Nitrogen (as N)	mg/l	Grab	= 50	18.35
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	4.4
OrthoPhosphate (as P)	mg/l	Grab	= 10	3.7
Sulphate (SO ₄)	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper
 For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: SW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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Table D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point)

Discharge Point Code: GW-5

Local Authority Ref No:	GW05
Source of Emission:	Secondary Discharge
Location:	Ground
Grid Ref (12 digits, 6E, 6N)	067462 / 045370
Name of Receiving waters:	Ground
Water Body:	Ground Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	None
Flow Rate in Receiving Waters:	0 m ³ .sec ⁻¹ Dry Weather Flow 0 m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Receiving Waters - discharge is into ground and therefore DWF not applicable

Emission Details:

(i) Volume emitted			
Normal/day	4.05 m ³	Maximum/day	12.15 m ³
Maximum rate/hour	0.51 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.0001 m ³ /sec		

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Table D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: GW-5

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 0	
Suspended Solids	mg/l	Grab	= 250	1
Ammonia (as N)	mg/l	Grab	= 25	0.1
Biochemical Oxygen Demand	mg/l	Grab	= 210	0.85
Chemical Oxygen Demand	mg/l	Grab	= 460	1.86
Total Nitrogen (as N)	mg/l	Grab	= 50	0.2
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	0.05
OrthoPhosphate (as P)	mg/l	Grab	= 10	0.04
Sulphate (SO ₄)	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper
 For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: GW-5

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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Table D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point)

Discharge Point Code: GW-6

Local Authority Ref No:	GW06	
Source of Emission:	Secondary Discharge	
Location:	Ground	
Grid Ref (12 digits, 6E, 6N)	067996 / 046481	
Name of Receiving waters:	Ground	
Water Body:	Ground Water Body	
River Basin District	South Western RBD	
Designation of Receiving Waters:	None	
Flow Rate in Receiving Waters:	0	m ³ .sec ⁻¹ Dry Weather Flow
	0	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Receiving Waters - discharge is into ground and therefore DWF not applicable	

Emission Details:

(i) Volume emitted			
Normal/day	4.05 m ³	Maximum/day	12.15 m ³
Maximum rate/hour	0.51 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.0001 m ³ /sec		

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Table D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: GW-6

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 0	
Suspended Solids	mg/l	Grab	= 250	1
Ammonia (as N)	mg/l	Grab	= 25	0.1
Biochemical Oxygen Demand	mg/l	Grab	= 210	0.85
Chemical Oxygen Demand	mg/l	Grab	= 460	1.86
Total Nitrogen (as N)	mg/l	Grab	= 50	0.2
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	0.05
OrthoPhosphate (as P)	mg/l	Grab	= 10	0.04
Sulphate (SO ₄)	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper
 For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: GW-6

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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Table D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point)

Discharge Point Code: SW-2

Local Authority Ref No:	SW02
Source of Emission:	Secondary Discharge
Location:	Castletownbere Harbour
Grid Ref (12 digits, 6E, 6N)	068344 / 046342
Name of Receiving waters:	Castletownbere Harbour
Water Body:	Coastal Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	None
Flow Rate in Receiving Waters:	0 m ³ .sec ⁻¹ Dry Weather Flow 0 m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Zero flow as receiving waters tidal

Emission Details:

(i) Volume emitted			
Normal/day	10.58 m ³	Maximum/day	31.74 m ³
Maximum rate/hour	1.32 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.0002 m ³ /sec		

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Table D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: SW-2

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 0	
Suspended Solids	mg/l	Grab	= 250	2.65
Ammonia (as N)	mg/l	Grab	= 25	0.26
Biochemical Oxygen Demand	mg/l	Grab	= 210	2.22
Chemical Oxygen Demand	mg/l	Grab	= 460	4.87
Total Nitrogen (as N)	mg/l	Grab	= 50	0.53
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	0.13
OrthoPhosphate (as P)	mg/l	Grab	= 10	0.1
Sulphate (SO ₄)	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper
 For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: SW-2

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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Table D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point)

Discharge Point Code: SW-3

Local Authority Ref No:	SW03	
Source of Emission:	Secondary Discharge	
Location:	Castletownbere Harbort	
Grid Ref (12 digits, 6E, 6N)	068614 / 046024	
Name of Receiving waters:	Castletownbere Harbour	
Water Body:	Coastal Water Body	
River Basin District	South Western RBD	
Designation of Receiving Waters:	None	
Flow Rate in Receiving Waters:	0	m ³ .sec ⁻¹ Dry Weather Flow
	0	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Zero flow as receiving waters tidal	

Emission Details:

(i) Volume emitted			
Normal/day	55.8 m ³	Maximum/day	167.4 m ³
Maximum rate/hour	6.97 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.001 m ³ /sec		

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Table D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: SW-3

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 0	
Suspended Solids	mg/l	Grab	= 250	13.95
Ammonia (as N)	mg/l	Grab	= 25	1.39
Biochemical Oxygen Demand	mg/l	Grab	= 210	11.72
Chemical Oxygen Demand	mg/l	Grab	= 460	25.67
Total Nitrogen (as N)	mg/l	Grab	= 50	2.79
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	0.67
OrthoPhosphate (as P)	mg/l	Grab	= 10	0.56
Sulphate (SO ₄)	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper
 For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: SW-3

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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Table D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Secondary Discharge Point)

Discharge Point Code: SW-4

Local Authority Ref No:	SW04
Source of Emission:	Secondary Discharge
Location:	Castletownbere Harbour
Grid Ref (12 digits, 6E, 6N)	067654 / 045745
Name of Receiving waters:	Castletownbere Harbour
Water Body:	Coastal Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	None
Flow Rate in Receiving Waters:	0 m ³ .sec ⁻¹ Dry Weather Flow 0 m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Zero flow as receiving waters tidal

Emission Details:

(i) Volume emitted			
Normal/day	8.55 m ³	Maximum/day	25.65 m ³
Maximum rate/hour	1.07 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.0002 m ³ /sec		

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Table D.1(ii)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: SW-4

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 0	
Suspended Solids	mg/l	Grab	= 250	2.14
Ammonia (as N)	mg/l	Grab	= 25	0.21
Biochemical Oxygen Demand	mg/l	Grab	= 210	1.8
Chemical Oxygen Demand	mg/l	Grab	= 460	3.93
Total Nitrogen (as N)	mg/l	Grab	= 50	0.43
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 12	0.1
OrthoPhosphate (as P)	mg/l	Grab	= 10	0.08
Sulphate (SO ₄)	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(ii)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Secondary Discharge Point)

Discharge Point Code: SW-4

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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TABLE E.1(i): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)
SW-4	365	3120.75
SW-1	365	133955
SW-2	365	3861.7
SW-3	365	20367
GW-5	365	1478.25
GW-6	365	1478.25

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TABLE E.1(ii): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Storm Water Overflows

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)	Complies with Definition of Storm Water Overflow
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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08	01/01/09					
pH	= 8.2				Grab	2	Electrochemical
Temperature		= 0			Grab	0	Electrochemical
Electrical Conductivity (@ 25°C)	= 4730				Grab	0.5	Electrochemical
Suspended Solids	= 115				Grab	0.5	Gravimetric
Ammonia (as N)	= 0.6				Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 5.23				Grab	0.06	Electrochemical
Chemical Oxygen Demand	= 24				Grab	8	Digestion & Colorimetric
Dissolved Oxygen		= 0			Grab	0	ISE
Hardness (as CaCO ₃)		= 0			Grab	0	titrimetric
Total Nitrogen (as N)	< 1				Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	= 0.029				Grab	0.001	Colorimetric
Nitrate (as N)	< 0.405				Grab	0.5	Colorimetric
Total Phosphorous (as P)	= 0.3				Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05				Grab	0.02	Colorimetric
Sulphate (SO ₄)	= 2565.4				Grab	30	Turbidimetric
Phenols (Sum)	< 5				Grab	0.1	GC-MS 2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08						
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 5				Grab	1	GC-MS1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 0.1				Grab	0.02	GC-MS1
Tributyltin	< 0.02				Grab	0.02	GC-MS1
Xylenes	< 0.02				Grab	1	GC-MS1
Arsenic	< 0.02				Grab	0.96	ICP-MS
Chromium	< 20				Grab	20	ICP-OES
Copper	< 20				Grab	20	ICP-OES
Cyanide	< 5				Grab	5	Colorimetric
Flouride	= 360				Grab	100	ISE
Lead	< 20				Grab	20	ICP-OES
Nickel	< 20				Grab	20	ICP-OES
Zinc	< 20				Grab	20	ICP-OES
Boron	= 3234				Grab	20	ICP-OES
Cadmium	< 20				Grab	20	ICP-OES
Mercury	= 0.03				Grab	0.2	ICP-MS
Selenium	= 32.3				Grab	0.74	ICP-MS
Barium	< 20				Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn saline interference in Selenium and Flouride test ,Boron present in sea water at levels of 5000ug/litre, in saline estuaries-reference from 4500 B ,A (extract in 21st Edition Std Methods for examination of water and wastewaters)
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TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING

Secondary Discharge Point

Discharge Point Code:	GW-5
MONITORING POINT CODE:	aGW-5d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08	01/01/09					
pH	= 8.2				Grab	2	Electrochemical
Temperature		= 0			Grab	0	Electrochemical
Electrical Conductivity (@ 25°C)	= 4730				Grab	0.5	Electrochemical
Suspended Solids	= 115				Grab	0.5	Gravimetric
Ammonia (as N)	= 0.6				Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 5.23				Grab	0.06	Electrochemical
Chemical Oxygen Demand	= 24				Grab	8	Digestion & Colorimetric
Dissolved Oxygen		= 0			Grab	0	ISE
Hardness (as CaCO ₃)		= 0			Grab	0	titrimetric
Total Nitrogen (as N)	< 1				Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	= 0.029				Grab	0.001	Colorimetric
Nitrate (as N)	< 0.405				Grab	0.5	Colorimetric
Total Phosphorous (as P)	= 0.3				Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05				Grab	0.02	Colorimetric
Sulphate (SO ₄)	= 2565.4				Grab	30	Turbidimetric
Phenols (Sum)	< 5				Grab	0.1	GC-MS 2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Secondary Discharge Point

Discharge Point Code:	GW-5
MONITORING POINT CODE:	aGW-5d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08						
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 5				Grab	1	GC-MS1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 0.1				Grab	0.02	GC-MS1
Tributyltin	< 0.02				Grab	0.02	GC-MS1
Xylenes	< 0.02				Grab	1	GC-MS1
Arsenic	< 0.02				Grab	0.96	ICP-MS
Chromium	< 20				Grab	20	ICP-OES
Copper	< 20				Grab	20	ICP-OES
Cyanide	< 5				Grab	5	Colorimetric
Flouride	= 360				Grab	100	ISE
Lead	< 20				Grab	20	ICP-OES
Nickel	< 20				Grab	20	ICP-OES
Zinc	< 20				Grab	20	ICP-OES
Boron	= 3234				Grab	20	ICP-OES
Cadmium	< 20				Grab	20	ICP-OES
Mercury	= 0.03				Grab	0.2	ICP-MS
Selenium	= 32.3				Grab	0.74	ICP-MS
Barium	< 20				Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn saline interference in Selenium and Flouride test ,Boron present in sea water at levels of 5000ug/litre, in saline estuaries-reference from 4500 B ,A (extract in 21st Edition Std Methods for examination of water and wastewaters)
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TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING

Secondary Discharge Point

Discharge Point Code:	GW-6
MONITORING POINT CODE:	aGW-6d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08	01/01/09					
pH	= 8.2				Grab	2	Electrochemical
Temperature		= 0			Grab	0	Electrochemical
Electrical Conductivity (@ 25°C)	= 4730				Grab	0.5	Electrochemical
Suspended Solids	= 115				Grab	0.5	Gravimetric
Ammonia (as N)	= 0.6				Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 5.23				Grab	0.06	Electrochemical
Chemical Oxygen Demand	= 24				Grab	8	Digestion & Colorimetric
Dissolved Oxygen		= 0			Grab	0	ISE
Hardness (as CaCO ₃)		= 0			Grab	0	titrimetric
Total Nitrogen (as N)	< 1				Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	= 0.029				Grab	0.001	Colorimetric
Nitrate (as N)	< 0.405				Grab	0.5	Colorimetric
Total Phosphorous (as P)	= 0.3				Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05				Grab	0.02	Colorimetric
Sulphate (SO ₄)	= 2565.4				Grab	30	Turbidimetric
Phenols (Sum)	< 5				Grab	0.1	GC-MS 2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Secondary Discharge Point

Discharge Point Code:	GW-6
MONITORING POINT CODE:	aGW-6d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08						
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 5				Grab	1	GC-MS1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 0.1				Grab	0.02	GC-MS1
Tributyltin	< 0.02				Grab	0.02	GC-MS1
Xylenes	< 0.02				Grab	1	GC-MS1
Arsenic	< 0.02				Grab	0.96	ICP-MS
Chromium	< 20				Grab	20	ICP-OES
Copper	< 20				Grab	20	ICP-OES
Cyanide	< 5				Grab	5	Colorimetric
Flouride	= 360				Grab	100	ISE
Lead	< 20				Grab	20	ICP-OES
Nickel	< 20				Grab	20	ICP-OES
Zinc	< 20				Grab	20	ICP-OES
Boron	= 3234				Grab	20	ICP-OES
Cadmium	< 20				Grab	20	ICP-OES
Mercury	= 0.03				Grab	0.2	ICP-MS
Selenium	= 32.3				Grab	0.74	ICP-MS
Barium	< 20				Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn saline interference in Selenium and Flouride test ,Boron present in sea water at levels of 5000ug/litre, in saline estuaries-reference from 4500 B ,A (extract in 21st Edition Std Methods for examination of water and wastewaters)
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TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING

Secondary Discharge Point

Discharge Point Code:	SW-2
MONITORING POINT CODE:	aSW-2d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08	01/01/09					
pH	= 8.2				Grab	2	Electrochemical
Temperature		= 0			Grab	0	Electrochemical
Electrical Conductivity (@ 25°C)	= 4730				Grab	0.5	Electrochemical
Suspended Solids	= 115				Grab	0.5	Gravimetric
Ammonia (as N)	= 0.6				Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 5.23				Grab	0.06	Electrochemical
Chemical Oxygen Demand	= 24				Grab	8	Digestion & Colorimetric
Dissolved Oxygen		= 0			Grab	0	ISE
Hardness (as CaCO ₃)		= 0			Grab	0	titrimetric
Total Nitrogen (as N)	< 1				Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	= 0.029				Grab	0.001	Colorimetric
Nitrate (as N)	< 0.405				Grab	0.5	Colorimetric
Total Phosphorous (as P)	= 0.3				Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05				Grab	0.02	Colorimetric
Sulphate (SO ₄)	= 2565.4				Grab	30	Turbidimetric
Phenols (Sum)	< 5				Grab	0.1	GC-MS 2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Secondary Discharge Point

Discharge Point Code:	SW-2
MONITORING POINT CODE:	aSW-2d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08						
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 5				Grab	1	GC-MS1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 0.1				Grab	0.02	GC-MS1
Tributyltin	< 0.02				Grab	0.02	GC-MS1
Xylenes	< 0.02				Grab	1	GC-MS1
Arsenic	< 0.02				Grab	0.96	ICP-MS
Chromium	< 20				Grab	20	ICP-OES
Copper	< 20				Grab	20	ICP-OES
Cyanide	< 5				Grab	5	Colorimetric
Flouride	= 360				Grab	100	ISE
Lead	< 20				Grab	20	ICP-OES
Nickel	< 20				Grab	20	ICP-OES
Zinc	< 20				Grab	20	ICP-OES
Boron	= 3234				Grab	20	ICP-OES
Cadmium	< 20				Grab	20	ICP-OES
Mercury	= 0.03				Grab	0.2	ICP-MS
Selenium	= 32.3				Grab	0.74	ICP-MS
Barium	< 20				Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn saline interference in Selenium and Flouride test ,Boron present in sea water at levels of 5000ug/litre, in saline estuaries-reference from 4500 B ,A (extract in 21st Edition Std Methods for examination of water and wastewaters)
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TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING

Secondary Discharge Point

Discharge Point Code:	SW-3
MONITORING POINT CODE:	aSW-3d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08	01/01/09					
pH	= 8.2				Grab	2	Electrochemical
Temperature		= 0			Grab	0	Electrochemical
Electrical Conductivity (@ 25°C)	= 4730				Grab	0.5	Electrochemical
Suspended Solids	= 115				Grab	0.5	Gravimetric
Ammonia (as N)	= 0.6				Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 5.23				Grab	0.06	Electrochemical
Chemical Oxygen Demand	= 24				Grab	8	Digestion & Colorimetric
Dissolved Oxygen		= 0			Grab	0	ISE
Hardness (as CaCO ₃)		= 0			Grab	0	titrimetric
Total Nitrogen (as N)	< 1				Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	= 0.029				Grab	0.001	Colorimetric
Nitrate (as N)	< 0.405				Grab	0.5	Colorimetric
Total Phosphorous (as P)	= 0.3				Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05				Grab	0.02	Colorimetric
Sulphate (SO ₄)	= 2565.4				Grab	30	Turbidimetric
Phenols (Sum)	< 5				Grab	0.1	GC-MS 2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Secondary Discharge Point

Discharge Point Code:	SW-3
MONITORING POINT CODE:	aSW-3d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08						
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 5				Grab	1	GC-MS1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 0.1				Grab	0.02	GC-MS1
Tributyltin	< 0.02				Grab	0.02	GC-MS1
Xylenes	< 0.02				Grab	1	GC-MS1
Arsenic	< 0.02				Grab	0.96	ICP-MS
Chromium	< 20				Grab	20	ICP-OES
Copper	< 20				Grab	20	ICP-OES
Cyanide	< 5				Grab	5	Colorimetric
Flouride	= 360				Grab	100	ISE
Lead	< 20				Grab	20	ICP-OES
Nickel	< 20				Grab	20	ICP-OES
Zinc	< 20				Grab	20	ICP-OES
Boron	= 3234				Grab	20	ICP-OES
Cadmium	< 20				Grab	20	ICP-OES
Mercury	= 0.03				Grab	0.2	ICP-MS
Selenium	= 32.3				Grab	0.74	ICP-MS
Barium	< 20				Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn saline interference in Selenium and Flouride test ,Boron present in sea water at levels of 5000ug/litre, in saline estuaries-reference from 4500 B ,A (extract in 21st Edition Std Methods for examination of water and wastewaters)
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TABLE F.1(ii)(a): SURFACE/GROUND WATER MONITORING

Secondary Discharge Point

Discharge Point Code:	SW-4
MONITORING POINT CODE:	aSW-4d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08	01/01/09					
pH	= 8.2				Grab	2	Electrochemical
Temperature		= 0			Grab	0	Electrochemical
Electrical Conductivity (@ 25°C)	= 4730				Grab	0.5	Electrochemical
Suspended Solids	= 115				Grab	0.5	Gravimetric
Ammonia (as N)	= 0.6				Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 5.23				Grab	0.06	Electrochemical
Chemical Oxygen Demand	= 24				Grab	8	Digestion & Colorimetric
Dissolved Oxygen		= 0			Grab	0	ISE
Hardness (as CaCO ₃)		= 0			Grab	0	titrimetric
Total Nitrogen (as N)	< 1				Grab	0.5	Digestion & Colorimetric
Nitrite (as N)	= 0.029				Grab	0.001	Colorimetric
Nitrate (as N)	< 0.405				Grab	0.5	Colorimetric
Total Phosphorous (as P)	= 0.3				Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05				Grab	0.02	Colorimetric
Sulphate (SO ₄)	= 2565.4				Grab	30	Turbidimetric
Phenols (Sum)	< 5				Grab	0.1	GC-MS 2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	
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TABLE F.1(ii)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Secondary Discharge Point

Discharge Point Code:	SW-4
MONITORING POINT CODE:	aSW-4d
Grid Ref (12 digits, 6E, 6N)	068732 / 045626

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	30/10/08						
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 5				Grab	1	GC-MS1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 0.1				Grab	0.02	GC-MS1
Tributyltin	< 0.02				Grab	0.02	GC-MS1
Xylenes	< 0.02				Grab	1	GC-MS1
Arsenic	< 0.02				Grab	0.96	ICP-MS
Chromium	< 20				Grab	20	ICP-OES
Copper	< 20				Grab	20	ICP-OES
Cyanide	< 5				Grab	5	Colorimetric
Flouride	= 360				Grab	100	ISE
Lead	< 20				Grab	20	ICP-OES
Nickel	< 20				Grab	20	ICP-OES
Zinc	< 20				Grab	20	ICP-OES
Boron	= 3234				Grab	20	ICP-OES
Cadmium	< 20				Grab	20	ICP-OES
Mercury	= 0.03				Grab	0.2	ICP-MS
Selenium	= 32.3				Grab	0.74	ICP-MS
Barium	< 20				Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn saline interference in Selenium and Flouride test ,Boron present in sea water at levels of 5000ug/litre, in saline estuaries-reference from 4500 B ,A (extract in 21st Edition Std Methods for examination of water and wastewaters)
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Annex 2: Check List For Regulation 16 Compliance

Regulation 16 of the waste water discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007) sets out the information which must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal requirements of regulation 16 of the 2007 Regulations, all applicants should complete the following.

In each case, refer to the attachment number(s), of your application which contains(s) the information requested in the appropriate sub-article.

Regulation 16(1) In the case of an application for a waste water discharge licence, the application shall -		Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the address to which correspondence relating to the application should be sent and, if the operator is a body corporate, the address of its registered office or principal office,	B.1	Yes
(b)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,	Not Applicable	Yes
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the waste water treatment plant and/or the waste water discharge point or points to which the application relates,	B.2	Yes
(d)	state the population equivalent of the agglomeration to which the application relates,	B.9(i)	Yes
(e)	specify the content and extent of the waste water discharge, the level of treatment provided, if any, and the flow and type of discharge,	C,D	Yes
(f)	give details of the receiving water body, including its protected area status, if any, and details of any sensitive areas or protected areas or both in the vicinity of the discharge point or points likely to be affected by the discharge concerned, and for discharges to ground provide details of groundwater protection schemes in place for the receiving water body and all associated hydrogeological and geological assessments related to the receiving water environment in the vicinity of the discharge.	F.1	Yes
(g)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and, if Regulation 17 does not apply, provide details of the likely environmental consequences of any such discharges,	E.3	Yes
(h)	in the case of an existing waste water treatment plant, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,	E.4	Yes
(i)	describe the existing or proposed measures, including emergency procedures, to prevent unintended waste water discharges and to minimise the impact on the environment of any such discharges,	G.3	Yes
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,	Not Applicable	Yes
(k)	give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit any pollution caused in such discharges,	F.1	Yes
(l)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,	E.1,E.4	Yes
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.	G.1	Yes
(n)	Any other information as may be stipulated by the Agency.	Not Applicable	Yes
Regulation 16(3) Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be accompanied by -		Attachment Number	Checked by Applicant
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,	B.8	Yes
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,	Not Applicable	Yes
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -	B	Yes
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and	B.3, B.4, B.5	Yes
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,	E.3	Yes
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.	B.9(iii)	Yes

Regulation 16(4) An original application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in an electronic or other format as specified by the Agency.		Attachment Number	Checked by Applicant
1	An Original Application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under regulation 16(3) in hardcopy or in electronic or other format as specified by the agency.		Yes
Regulation 16(5) For the purpose of paragraph (4), all or part of the 2 copies of the said application and associated documents and particulars may, with the agreement of the Agency, be submitted in an electronic or other format specified by the Agency.		Attachment Number	Checked by Applicant
1	Signed original.		Yes
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.		Yes
3	1 CD of geo-referenced digital files provided.		Yes
Regulation 17 Where a treatment plant associated with the relevant waste water works is or has been subject to the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001, in addition to compliance with the requirements of Regulation 16, an application in respect of the relevant discharge shall be accompanied by a copy of an environmental impact statement and approval in accordance with the Act of 2000 in respect of the said development and may be submitted in an electronic or other format specified by the Agency		Attachment Number	Checked by Applicant
1	EIA provided if applicable	Not Applicable	Yes
2	2 hardcopies of EIS provided if applicable.	Not Applicable	Yes
3	2 CD versions of EIS, as PDF files, provided.	Not Applicable	Yes

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