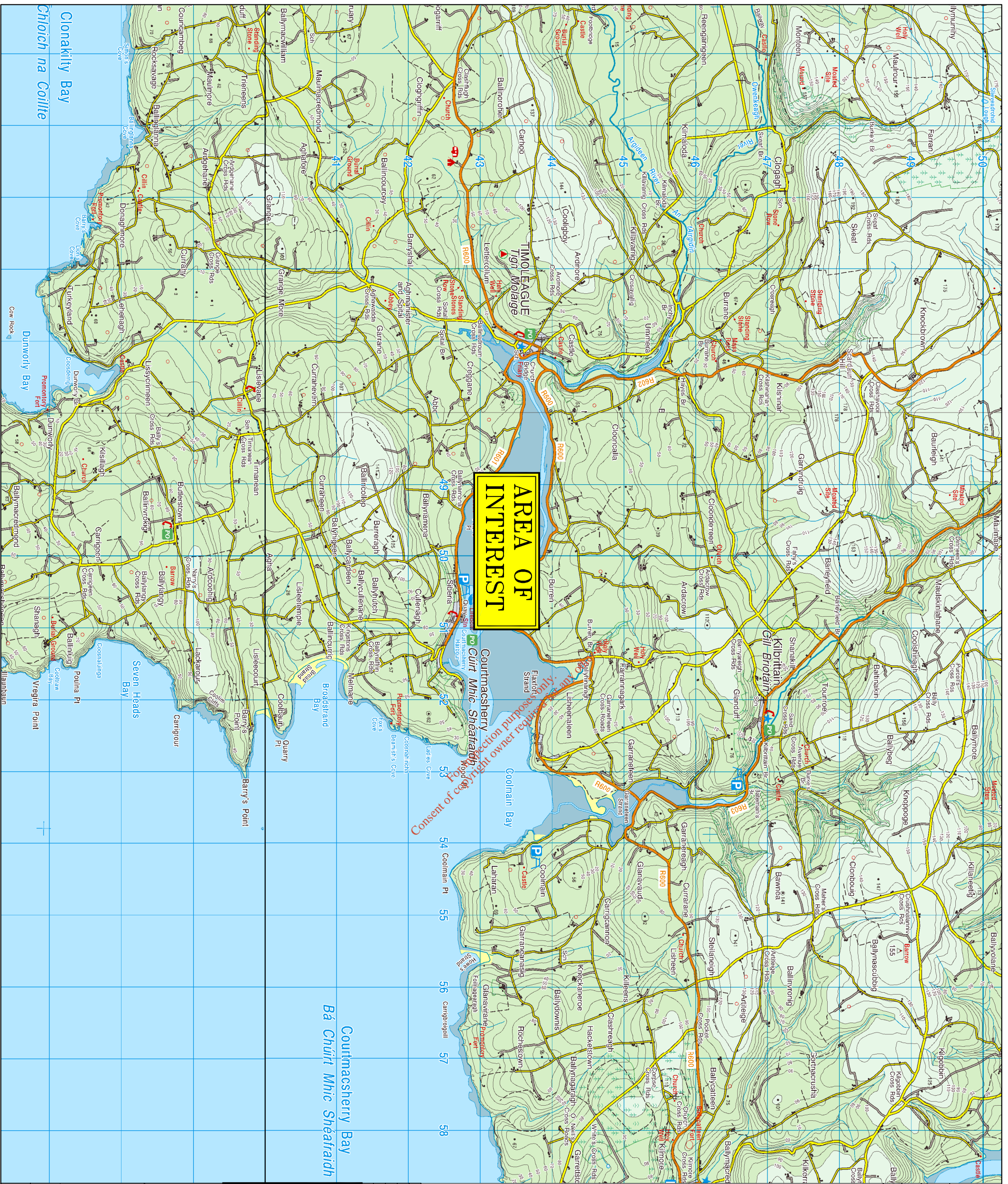


ATTACHMENT No A.1

Non-Technical Summary Supporting Information

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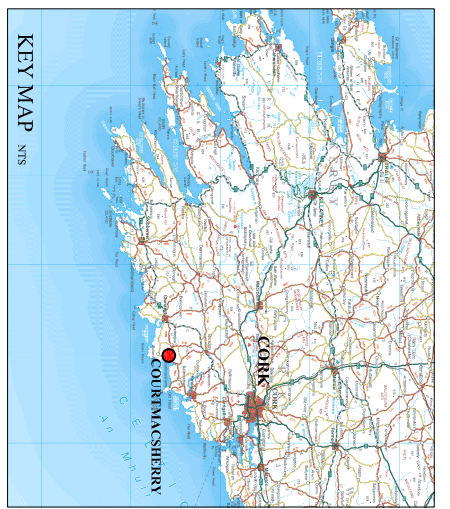
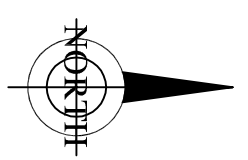


AREA OF INTEREST

Consent of the owner not required for publication

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**Cork County Council,
Western Division.**



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

Job Title:
COURTMASHERRY_WASTE_WATER
DISCHARGE LICENCE APPLICATION

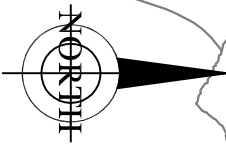
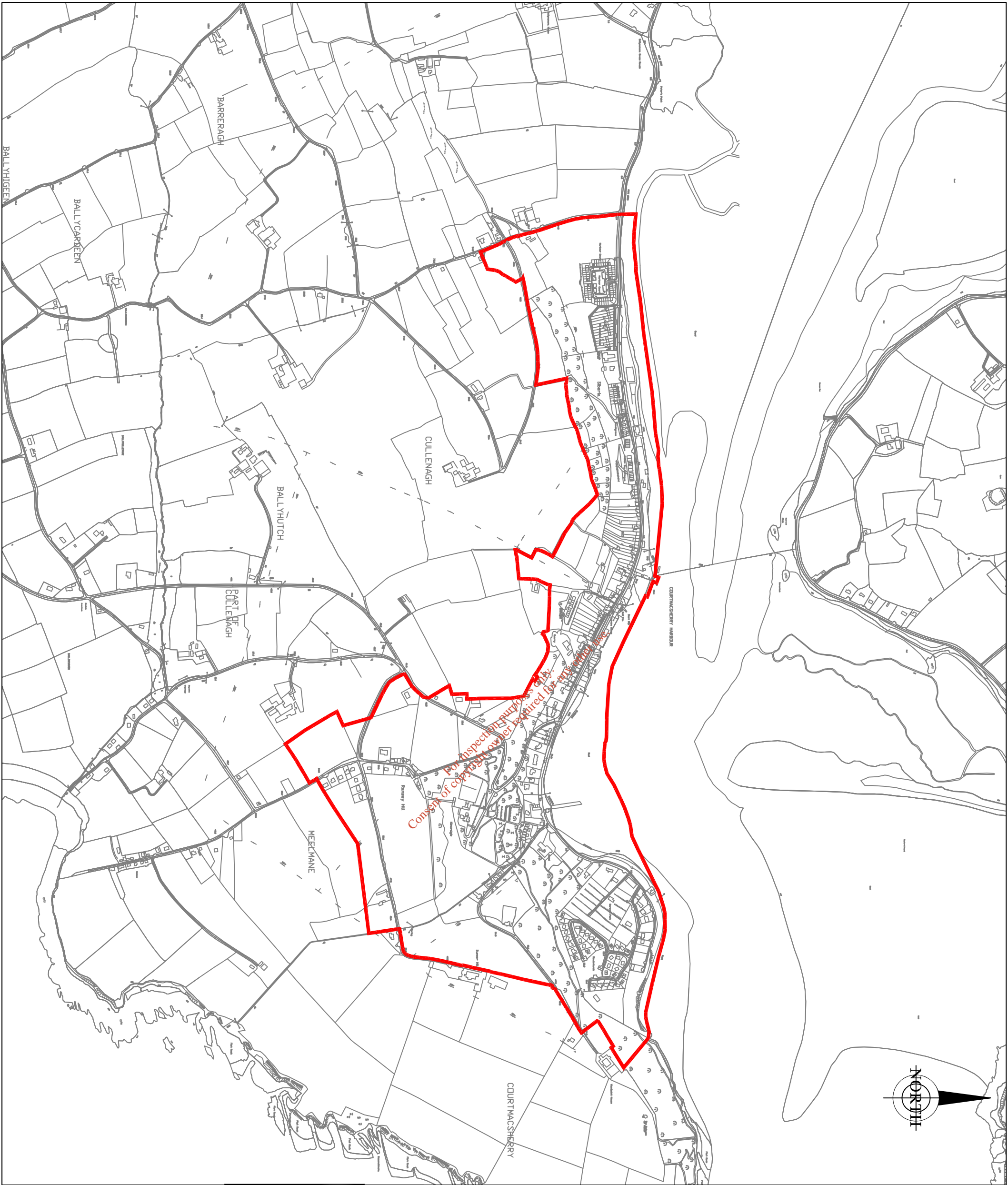
Drawing Title:
ATTACHMENT A.1
SITE_LOCATION_MAP

Prepared By: J. CREAGH	Checked By: D. GROARKE	Date: FEB 2009
Drawing number: COUR_AI_01	Scales: 1/50000	Rev: -

ATTACHMENT No B.1

AGGLOMERATION BOUNDARY

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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, SHARRIBREEN,
 M. MURRELL,
 DIRECTOR OF SERVICES
 WEST CORK

Job Title:
 COURTMACSHERRY_WASTE_WATER
 DISCHARGE_LICENCE_APPLICATION

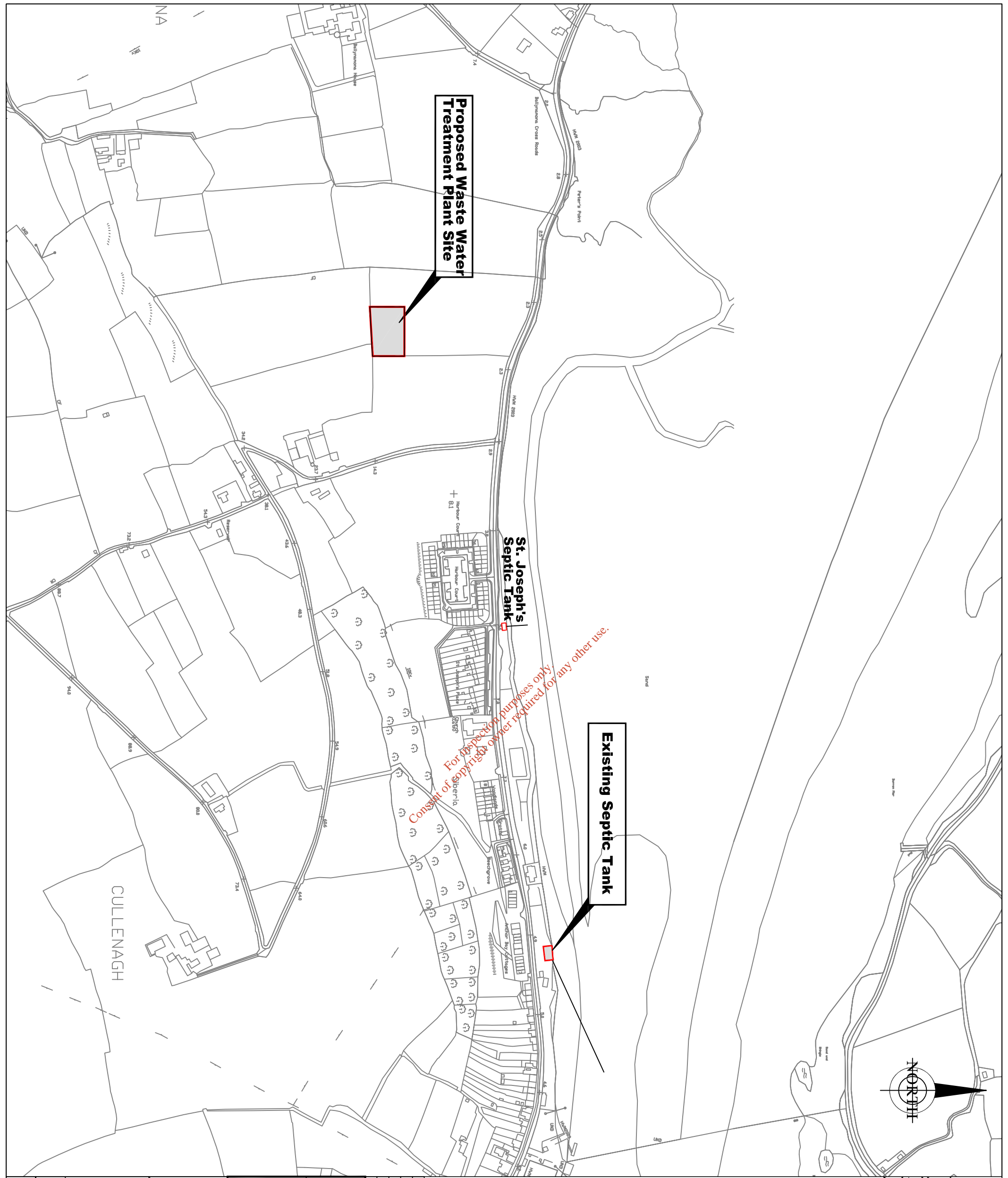
Drawing Title:
 ATTACHMENT_B1
 AGGLOMERATION_BOUNDARY
 SERVED_BY_WASTE_WATER
 TREATMENT_PLANT

Prepared By: J. CREAGH	Checked By: D. GROARKE	Date: FEB. 2009
Drawing number: COUR_B1_01	Scale: 1:10000	Rev: -

ATTACHMENT No B.2

WWTP SITE BOUNDARY

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LEGEND
 SITE BOUNDARY

Cork County Council,
 Western Division.

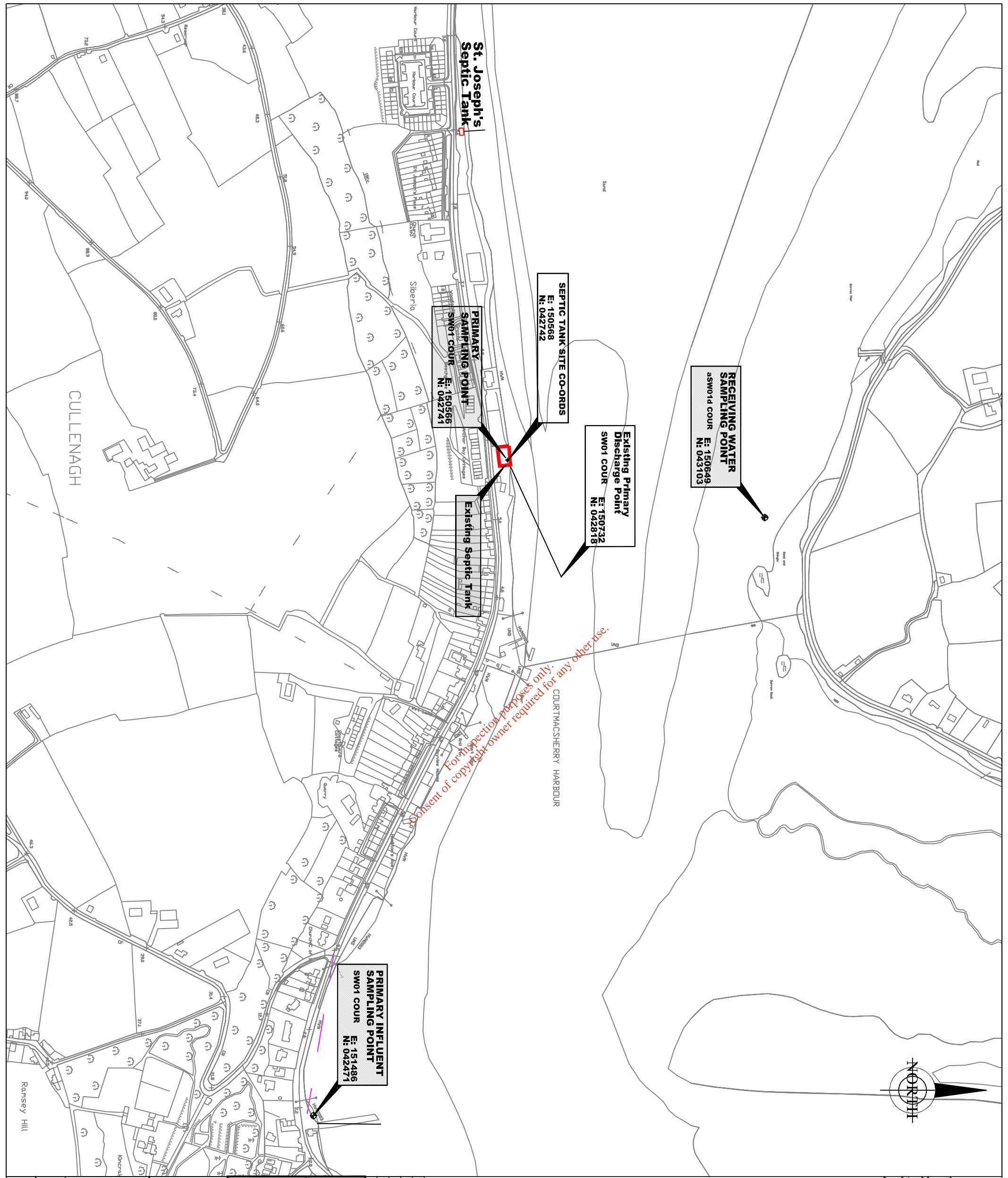


N. O'MAHONY, B.E.
 SENIOR ENGR. (WATER SERVICES),
 COURTHOUSE, SHIBBEREN,
 M. MURRELL,
 DIRECTOR OF SERVICES
 WEST CORK

Job Title:
 COURTMACHSHERRY_WASTE_WATER
 DISCHARGE_LICENCE_APPLICATION

Drawing Title:
 ATTACHMENT B.2
 EXISTING_&_PROPOSED_WWTP
 SITE_LOCATION_PLAN

Prepared By	Checked By	Date:
J. CREAGH	D. GROARKE	FEB. 2009
Drawing number: COUR_B2_01	Scales: 1:5000	Rev: -



NOTES

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LEGEND
 SITE BOUNDARY

No.	Date	Drawn	Checked	Revision Description

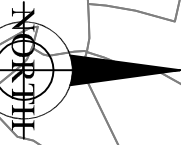
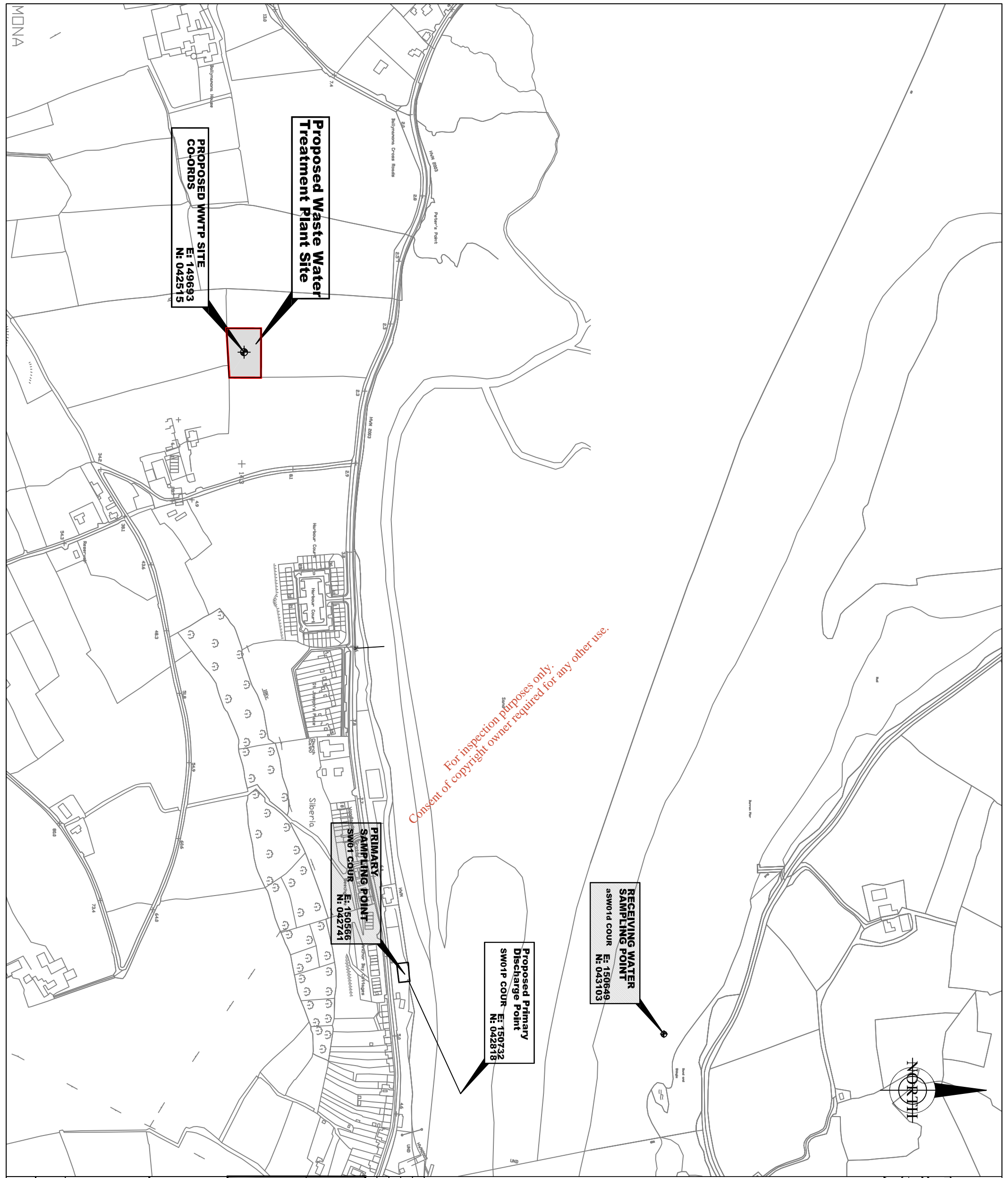
Cork County Council,
 Western Division.

N. O'MAHONY & B.E.
 SENIOR ENGR. (WATER SERVICES),
 COURT HOUSE, SHABREENAN,
 WEST CORK.

Job Title:
 COURTMACSHERRY_WASTE_WATER
 DISCHARGE_LICENCE_APPLICATION

Drawing Title:
 ATTACHMENT_B.2
 EXISTING_SEPTIC_TANK
 SITE_LAYOUT_BOUNDARY

Prepared By: J. CREAGH	Checked By: D. GORARKE	Date: FEB. 2009
Drawing number: COUR_B2_02	Scale: 1:5000	Rev: -



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LEGEND

— SITE BOUNDARY

No.	Date	Rev.	Chgd	Revision Description

Cork County Council,
Western Division.

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



Job Title:
COURTMACHSHERRY_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

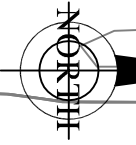
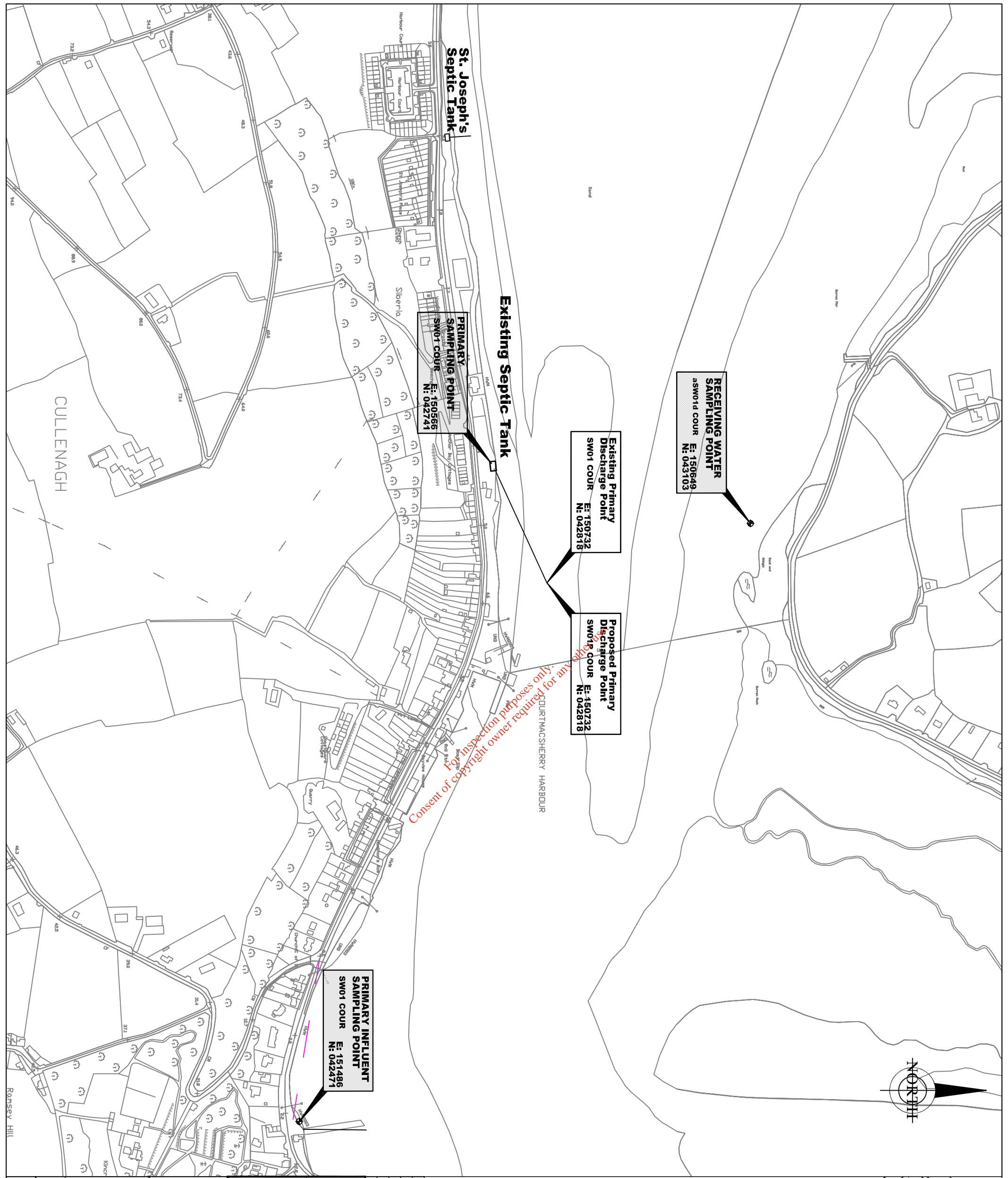
Drawing Title:
ATTACHMENT_B2
PROPOSED_WASTE_WATER
TREATMENT_PLANT
SITE_BOUNDARY

Prepared By: J.CREAGH	Checked By: D.GROARKE	Date: FEB.2009
Drawing number: COUR_B2_03	Scale: 1:5000	Rev: -

ATTACHMENT No B.3

PRIMARY DISCHARGE LOCATION

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No.	Date	Drawn	Revised 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:
COURTMACHERRY WASTE WATER
DISCHARGE LICENCE APPLICATION

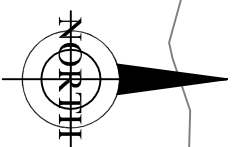
Drawing Title:
ATTACHMENT B.3
EXISTING AND PROPOSED
PRIMARY DISCHARGE POINTS

Prepared By: J. CREAGH	Checked By: D. G. OARKE	Date: FEB. 2009
Drawing number: COUR_B3_01	Scales: 1:5000	Rev: -

ATTACHMENT No B.4

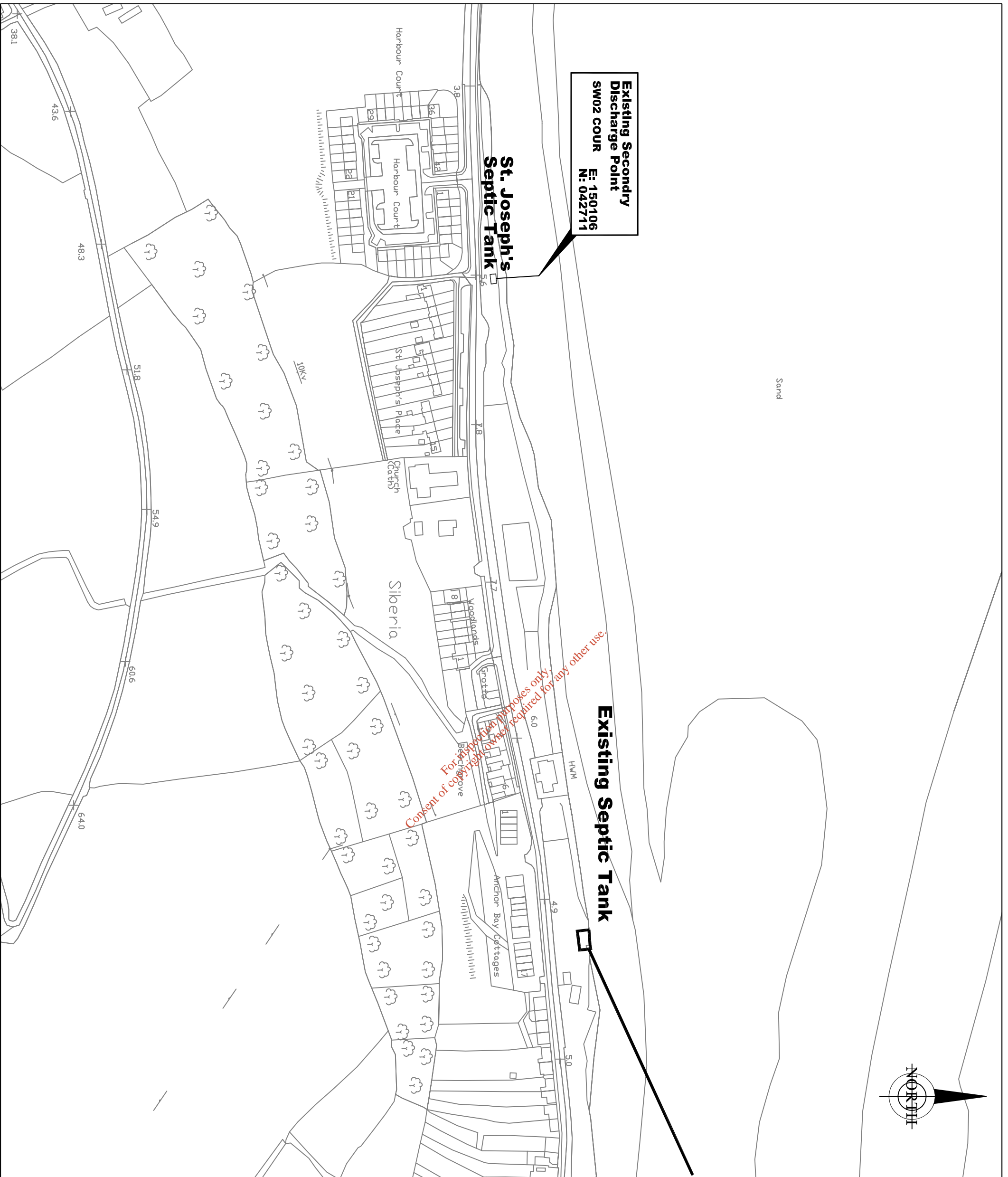
SECONDARY DISCHARGE LOCATION

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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:
COURTMACSHERRY_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

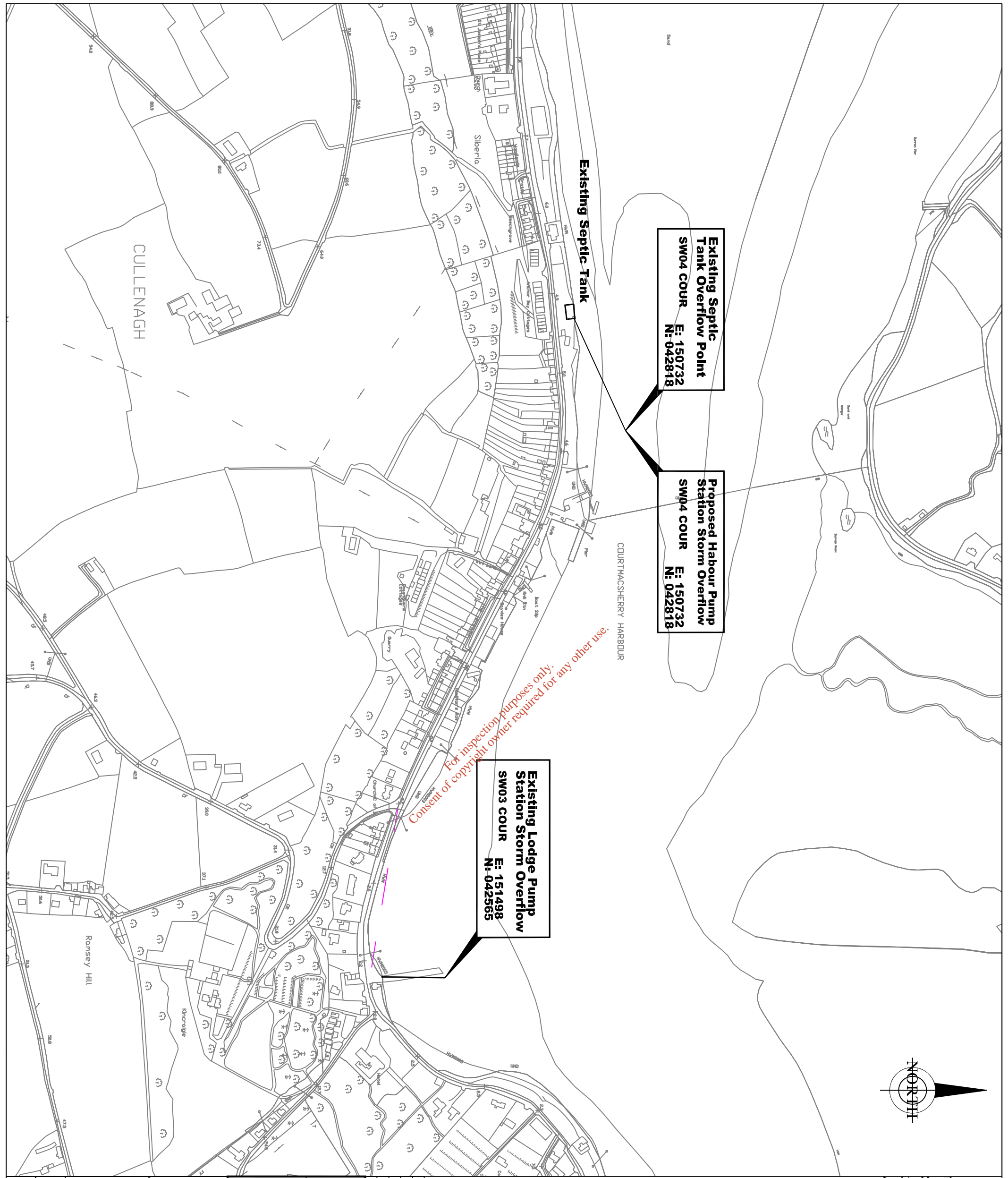
Drawing Title:
ATTACHMENT_B_4
SECONDARY_DISCHARGE_POINTS

Prepared By	Checked By	Date:
J. CREAGH	D. GROARKE	FEB. 2009
Drawing number: COUR_B4_01	Scales: 1:5000	Rev: -

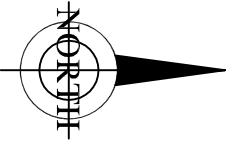
ATTACHMENT No B.5

STORM WATER OVERFLOW LOCATIONS

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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:
COURTMACSHERRY_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT_B5
EXISTING_& PROPOSED
STORM_WATER_OVERFLOW_POINTS

Prepared By	Checked By	Date:
J. CREAGH	D. GREGORKE	FEB. 2009
Drawing number: COUR_BS_01	Scales: 1:5,000	Rev: -

ATTACHMENT No B.8

NOTICES AND ADVERTISEMENTS

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CORK COUNTY COUNCIL

SITE NOTICE

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

In accordance with the Waste Water 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 Waste Water Discharge Licence for Courtmacsherry Agglomeration at the following locations:

Plant Name	Location	National Grid Ref.
Courtmacsherry WWTP	Courtmacsherry	E150569 N042742

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Cullenagh	Courtmacsherry Estuary	E150732 N042818
Secondary	Minor	Cullenagh	Courtmacsherry Estuary	E150106 N042711

Cork County Council proposes to construct a new wastewater treatment plant at Cullenagh, Courtmacsherry, Co. Cork, Grid Reference (E149710, N042520). It is proposed to discharge treated wastewater from this plant to Courtmacsherry Estuary utilising existing outfall. The proposed outfall location is detailed in the table below:

Discharge Type	Function	Townland	Receptor	Grid Reference
Primary	Main	Cullenagh	Courtmacsherry Estuary	E150732 N042818

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.

CORK COUNTY COUNCIL

MAHAIRLE CHONTAE CHORCAÍ

LIC NOTICES

WESTERN DIVISION

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Killeagh	Dissour	E200709 N076496
Secondary	Main	Killeagh	Dissour	E200722 N076431

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 Courtmacsherry agglomeration at the following locations:

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

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

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

WESTERN DIVISION

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 Killeens at the following locations:

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

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

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 Killeens at the following locations:

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

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

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:

PUBLIC NOTICES

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 Courtmacsherry agglomeration at the following locations:

Plant Name	Location	National Grid Ref.
Courtmacsherry WWTP	Courtmacsherry	E150569 N042742

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Cullenagh	Courtmacsherry Estuary	E150732 N042818
Secondary	Minor	Cullenagh	Courtmacsherry Estuary	E1509106 N042711

Cork County Council proposes to construct a new wastewater treatment plant at Cullenagh, Courtmacsherry, Co. Cork, Grid Reference (E149710, N042520). It is proposed to discharge treated wastewater from this plant to Courtmacsherry Estuary. The proposed location is detailed in the table below:

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Cullenagh	Courtmacsherry Estuary	E150732 N042818

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.

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 THIRD 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 as 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 the land described in the Schedule hereto for the purposes of the

ROADS

TEMPORARY CLOSURE OF PUBLIC ROAD - WHITEGATE AREA

PROPOSED CORK SCIENCE, INNOVATION AND TECHNOLOGY PARK

INVITATION TO MAKE INFORMAL SUBMISSIONS

Cork County Council are commencing public consultation in relation to the development of a Science, Innovation and Technology Park at Curraheen, on the western side of Cork City.

Following the public consultation exercise and consideration of submissions made, the Council will prepare a Draft Amendment to the Carrigaline Electoral Area Local Area Plan and a consequential Draft Variation to the Cork County Development Plan 2009, which will also be the subject of public consultation.

An Information Leaflet has been prepared which aims to promote public debate on how the proposed Science Park should develop and will be available from 23rd February, 2009. The publication of this leaflet is the first step in the process leading to the Amendment of the Carrigaline Electoral Area Local Area Plan and Consequential Variation to the County Development Plan. A public information day is also planned where staff will be available to discuss this proposal in further detail. This information day will be held from 4.00 p.m. to 8.00 p.m. on Tuesday, 3rd March 2009, in the Foyer, Floor 1, County Hall, Cork.

The information leaflet will be available during normal working hours at

- Planning Department, Floor 1, County Hall, Cork
- Planning Policy Unit, Floor 13, County Hall, Cork
- Council Offices in Ballincollig, Douglas, Carrigaline, Bandon and Blarney
- Public Libraries (Ballincollig, Wilton, Douglas, Carrigaline, Grand Parade, Bandon, Blarney and County Library, Model Business Park)

and to download or view on the County Council's web-site www.corkcoco.ie

Informal Submissions:

Informal submissions or observations can be made and these will be considered before the Proposed Amendment is prepared. Any person or organisation with an interest is hereby invited to send their comments in writing to:

The Senior Planner,
Cork County Council,
Planning Policy Unit,
Floor 13,
County Hall,
Cork.
Tel: 021 4285900

E-mail submissions can be sent to sciencepark@corkcoco.ie. Submissions or observations made by email must include the full name and address of the person making the submission.

The final date on which submissions or observations in response to this invitation can be made is:

23rd March, 2009

Dated: This 20th Day of February, 2009

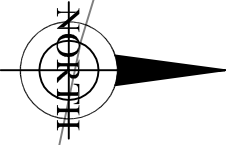
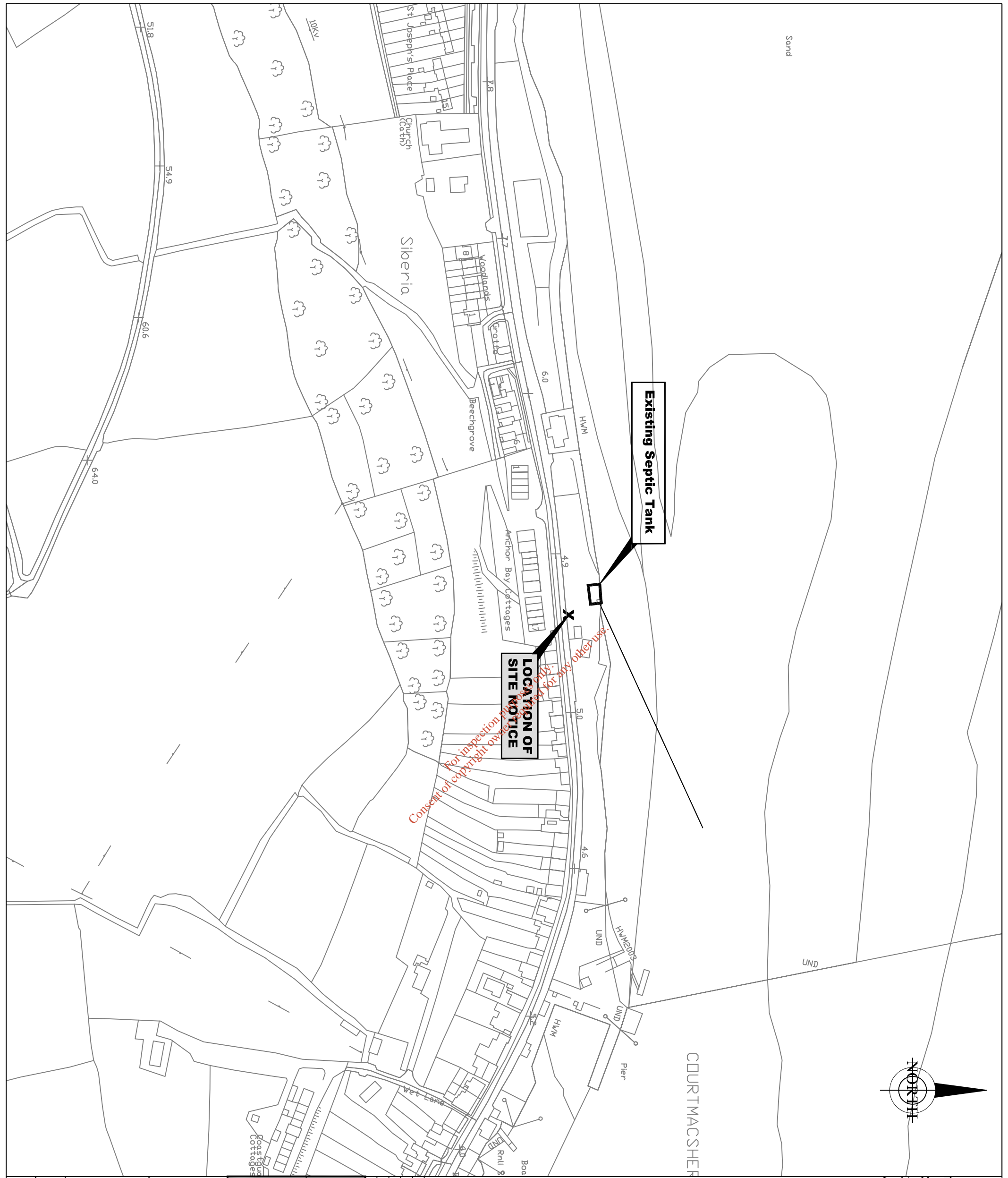
Signed: Head of Forward Planning & Strategic Development

TENDERS

Cork County Council invites tenders for the provision of a Fuel Discount Card System to the Council.

Closing date for the receipt of tenders is Friday, 3rd April 2009 at 16.00hrs.


Rural Water, Planning & Coastal, Area Operations South



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**Cork County Council,
Western Division.**



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

Job Title:
COURTMACSHERRY_WASTE_WATER
DISCHARGE_LICENCE_APPLICATION

Drawing Title:
ATTACHMENT B.8
LOCATION_OF_SITE_NOTICE

Prepared By:	Checked By:	Date:
J. CREAGH	D. GROARKE	FEB. 2009
Drawing number: COUR_388_01	Scales: 1:2500	Rev: -

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ATTACHMENT No B.9(iii)

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**

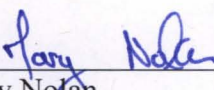
Date Transferred to EPA Bank Account: **13th February 2009**

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 No B.10

CAPITAL INVESTMENT PROGRAMME

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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			Cork South	
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S 22,248,000
Cork South			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)	S 73,542,000
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S 3,780,000
Cobh/ Midleton/ Carrigwohill Water Supply Scheme	W	10,135,000	Youghal Sewerage Scheme	S 14,420,000
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	Cork West	
Cork Water Strategy Study (G)	W	941,000	Ballydehob Sewerage Scheme	S 683,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W 14,935,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S 3,677,000
		41,274,000	Courtmacsherry/ Timoleague Sewerage Scheme	S 2,472,000
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	W 12,669,000
				164,629,000
Cork North			Serviced Land Initiative	
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Cork North	
Cork West			Ballyclough Water Supply Scheme	W 139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooly Improvement Scheme	W/S 139,000
		25,150,000	Brookhill-Rathgoggin Sewerage Scheme	S 406,000
Schemes to start 2008			Bweeing Water Supply Scheme	W 115,000
Cork North			Churchtown Sewerage Scheme (incl. Water)	W/S 543,000
Mallow/ Ballyvinter Regional Water Supply Scheme (H) W		8,652,000	Clondulane Sewage Treatment Plant	S 417,000
Mallow Sewerage Scheme (H)	S	5,408,000	Freemount Sewerage Scheme	S 150,000
Cork South			Pike Road Sewerage Scheme (incl. Water)	W/S 2,080,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Rathcormac Sewerage Scheme (incl. Water)	W/S 555,000
Ballingeary Sewerage Scheme	S	1,296,000	Spa Glen Sewerage Scheme	S 736,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S 1,174,000
City Environs (CASP) Strategic Study (G)	S	153,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S 4,151,000
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	Cork South	
Coachford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and Storm Drainage) (G)	S 1,164,000
Garrettstown Sewerage Scheme	S	2,153,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S 2,913,000
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Blansy Water Supply Scheme (Ext. to Station Rd) (G)	W 416,000
Little Island Sewerage Scheme (G)	S	2,200,000	Carrigwohill Sewerage Scheme (Treatment and Storm Drain) (G)	S 7,632,000
Cork West			Castlematyr Wastewater Treatment Plant Extension	S 1,200,000
Bantry Sewerage Scheme	S	7,148,000	Crookstown Sewerage Scheme (incl. Water)	W/S 1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S 1,112,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Glounthane Sewerage Scheme (G)	S 1,576,000
Schull Water Supply Scheme	W	5,253,000	Innishannon Sewerage Scheme	S 277,000
		61,137,000	Innishannon Wastewater Treatment Plant	S 694,000
Schemes to start 2009			Kernypike Sewerage Scheme	S 832,000
Cork North			Kernypike Water Supply Scheme	W 416,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Killeagh Wastewater Treatment Plant Extension	S 1,200,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S 485,000
Cork NE Water Supply Scheme	W	4,326,000	Killeens Sewerage Scheme	S 420,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Kilnagleary Sewerage Scheme	S 694,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Midleton 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
Cork West			Minane Bridge Water Supply Scheme	W	1,421,000
Castletownshend Sewerage Scheme	S	1,576,000			
		50,797,000	Cork West		
Rural Towns & Villages Initiative			Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
Cork North			Cape Clear Water Supply Scheme	W	1,679,000
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Castletownbere Regional Water Supply Scheme	W	8,405,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000	Glengarriff Sewerage Scheme	S	2,500,000
Cork South			Roscarberry/Owenahincha Sewerage Scheme	S	1,576,000
Innishannon (Ballinadee/ Ballinspittle/ Garrettstown) Water Supply Scheme	W	6,726,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
					95,646,000
Cork West			Water Conservation Allocation		12,206,000
Ballylicky Sewerage Scheme	S	2,153,000	Asset Management Study		300,000
Baltimore Sewerage Scheme	S	3,762,000	South Western River Basin District (WFD) Project¹		9,400,000
Castletownbere Sewerage Scheme	S	5,202,000			
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

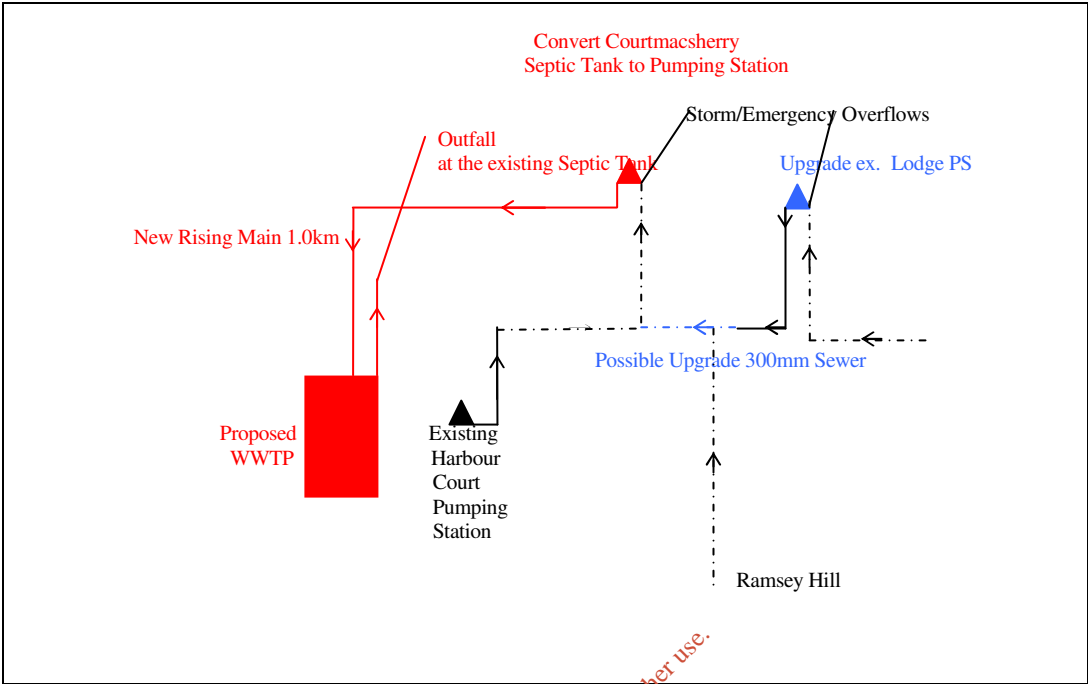
(H) Refers to a Hub as designated in the National Spatial Strategy

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

ATTACHMENT No C.1

OPERATIONAL INFORMATION REQUIREMENTS

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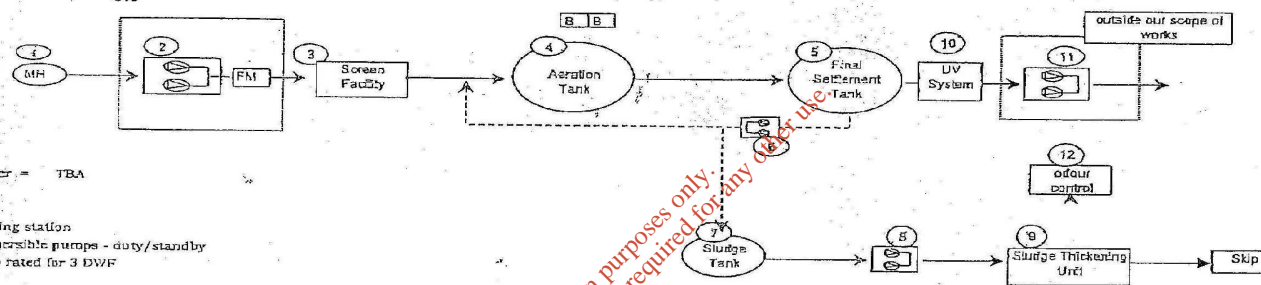
Schematic of Proposed Sewerage Scheme at Courtmacsherry

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Proposed Wastewater Treatment Plant – Indicative Layout Process Diagram

Timoleague & Courtmacsherry Combined WWTW

PB	5256
l/d/day	225
DWPF m ³ /d	1209.6
3DWPF m ³ /d	3628.8
BOD g/hd/d	60
BOD kg/d	315



(1) Inlet sewer = TBA

(2) Inlet Pumping station
2 No. submersible pumps - duty/standby
Each pump rated for 3 DWPF
Ultrasonic
Flowmeter

(3) 2 No. automatic screen - elevated screen, duty standby
3DWPF - 42 l/sec
Ultrasonic

(4) Aeration - Volume Required 525 m³ x 2
2 No Tanks 525 m³ each
Each tank - 13.65 diameter liquid depth 4m
FM 0.1 kgBOD/kgMLSS
MLSS 3 kg/m³
2 No. blowers duty/standby per aeration tank.
Air required per tank 435 m³/hr (kW blower)

(5) 2 No. Final Settlement Tank
Each FST 10.24 diameter 2.85 Side Wall depth
UFV 0.9m/hr @ 3DWPF

7.5 degree floor slope to central hopper.
Complete with scraper bridge.

(6) 1 No. BSS/WAS sumps
duty/standby arrangement
Each pump - 0-2DWPF = 6.77 - 27.2l/sec
Concentration 0.75 % ds.

(7) Waste Sludge
yield 0.65 kg SS/kg BOD applied
Sludge Produced = 204kg/d @ 0.75%
Volume wasted/day = 26.5 m³/d
Thickened to 2.5 % ds
Thickened sludge volume = 8.8 m³/d
5 days storage = 44m³
Provide 85m³ tank.
Supernatant 19.1 m³/day approx.

(8) Sludge Feed Pumps
2 No.

(9) Sludge Thickening Unit (Optional)
Flowrate m³/hr
Hours Run
Sludge Conc. - % dry solids
Sludge Volume m³/d @ 18%

(10) UV system rated for 104.4 m³/day

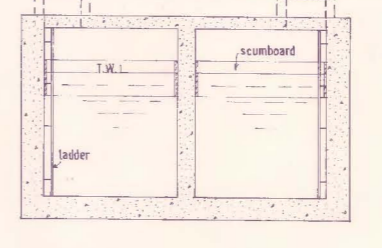
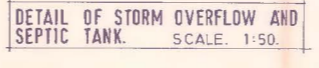
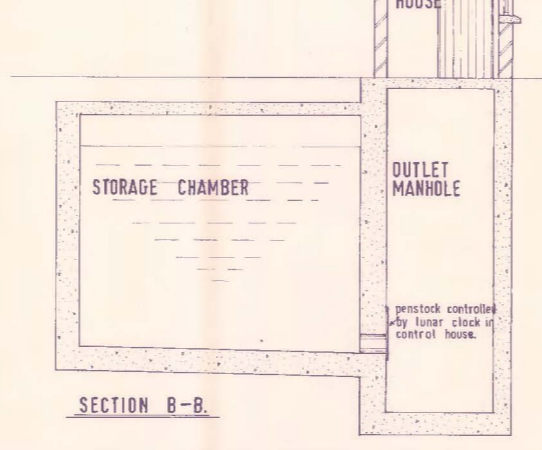
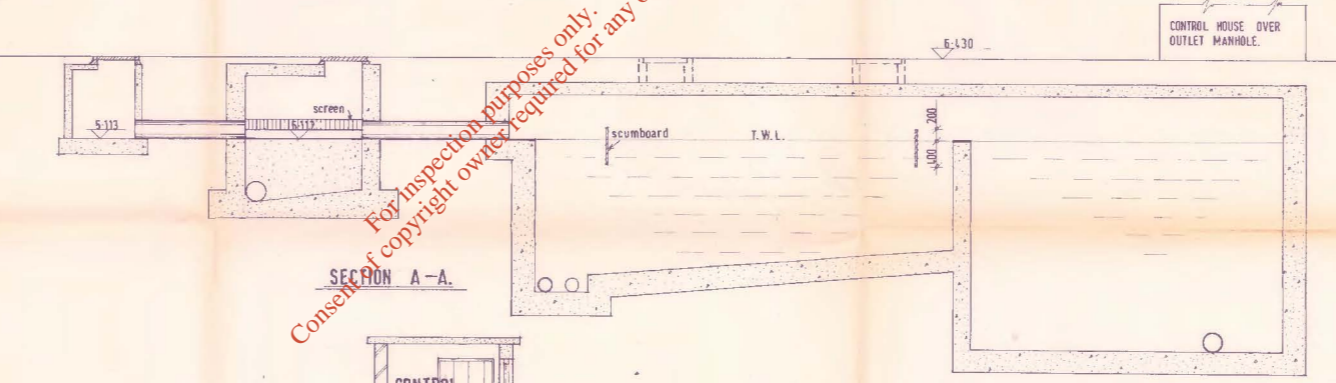
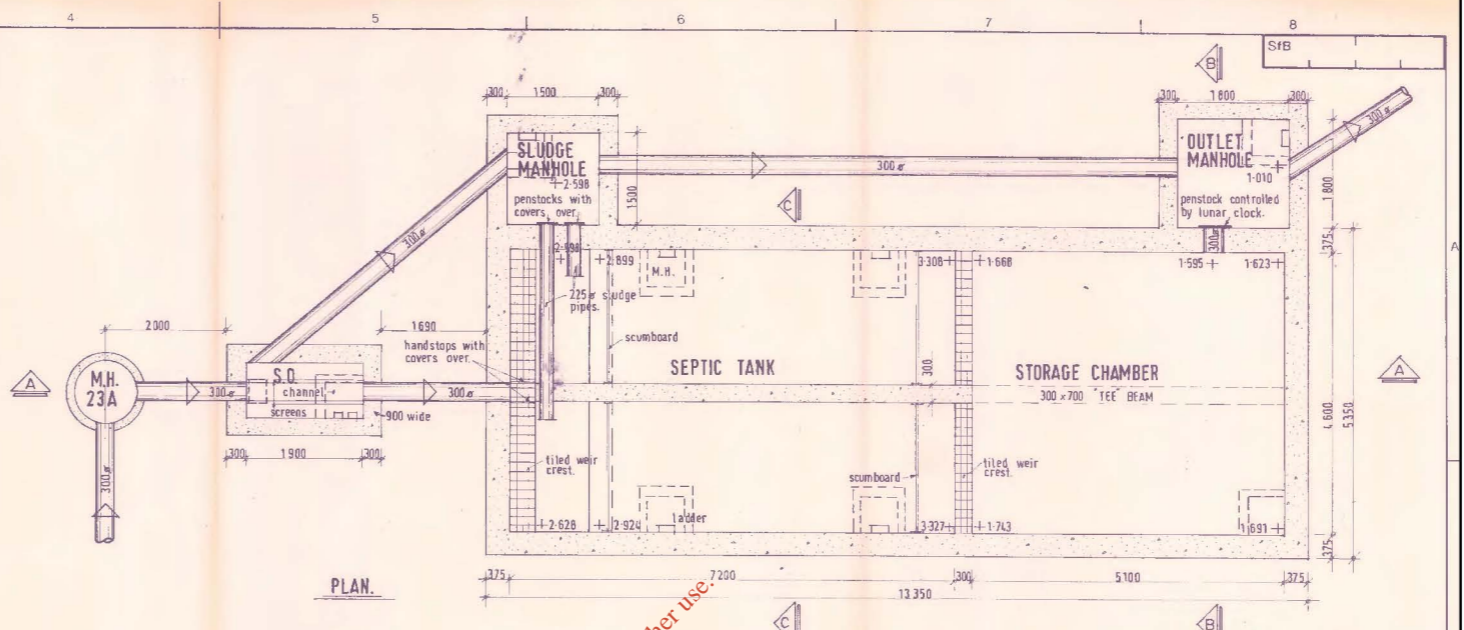
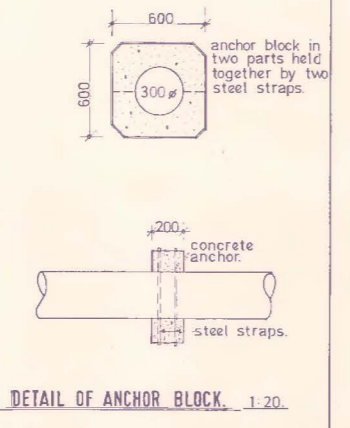
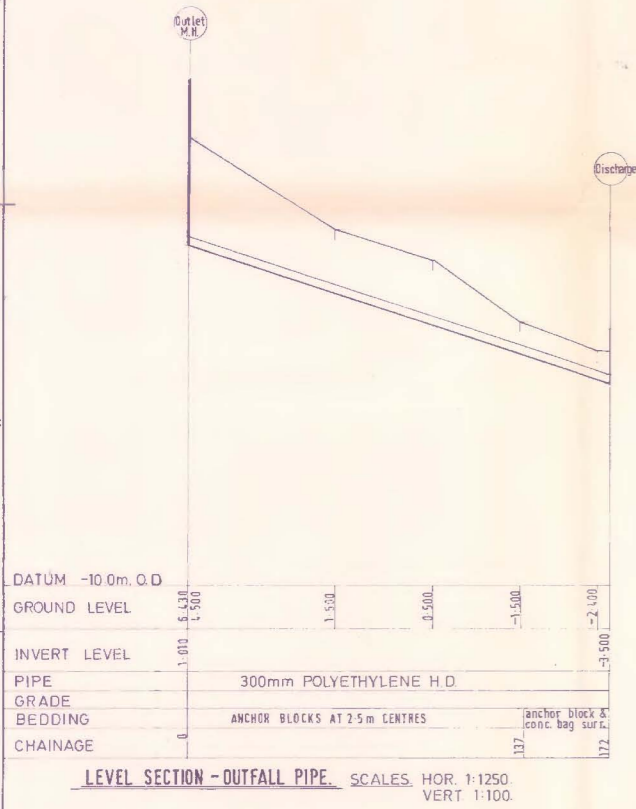
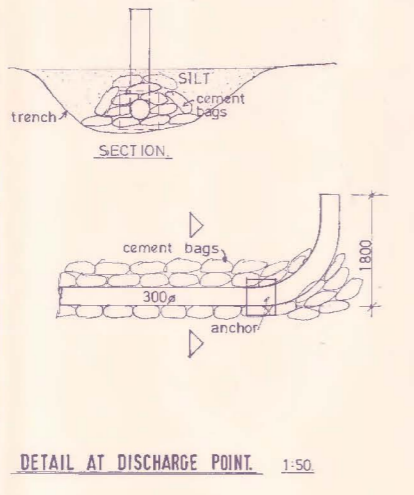
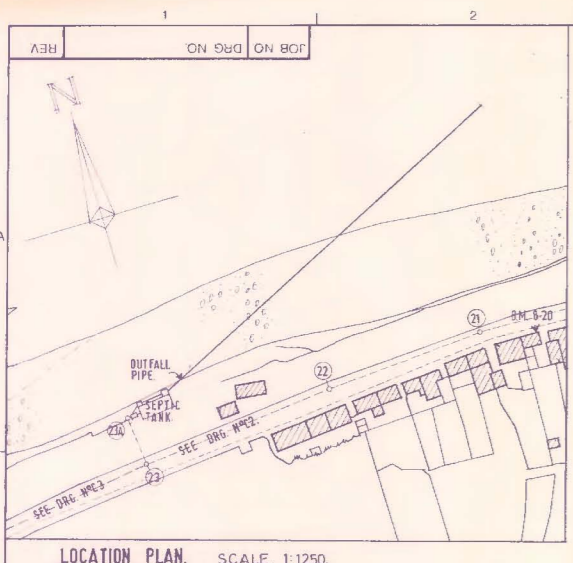
(11) Outlet Pumping Station-existing CoCo
Gravitate effluent to...

(12) Odour control unit

ATTACHMENT No C.2

OUTFALL DESIGN AND CONSTRUCTION

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NOTES

1. Do not scale, use figured dimensions only. If in doubt ask
2. All dimensions to be checked on site
3. Drawings to be read in conjunction with Licence application
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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, SKIBBEREEN.**

**M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK**

Job Title:
**COURTMACSHERRY WASTE WATER
DISCHARGE LICENCE APPLICATION**

Drawing Title:
**ATTACHMENT C.2
EXISTING STORM OVERFLOW &
SEPTIC TANK OUTFALL DETAILS**

Prepared By: J.CREAGH	Checked By: D.GROURKE	Date: FEB.2009
Drawing number: COUR_C2_01	Scales: NTS	Rev: -

ATTACHMENT No D.1

INFLUENT MONITORING

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Attachment D.1 Courtmacsherry Influent

Sample Date	30/10/2008	Average	Kg/day	Kg/year
Sample	Influent			
Location	Lodge Pump Station			
Sample Code	GS1181			
Flow M ³ /Day	*			
pH	7.4	7.4	*	*
Temperature °C	*	*	*	*
Cond 20°C	1622	1622	*	*
SS mg/L	50	50	67.8	24747
NH ₃ mg/L	6.9	6.9	9.356	3415.09
BOD mg/L	48.4	48.4	65.63	23955.096
COD mg/L	130	130	176.28	64342.2
TN mg/L	12	12	16.272	5939.28
Nitrite mg/L	1.451	1.451	1.96	718.16
Nitrate mg/L	3.03	3.03	4.109	1499.67
TP mg/L	3.2	3.2	4.339	1583.81
O-PO4-P mg/L	1.73	1.73	2.346	856.25
SO4 mg/L	78.2	78.2	106.04	38704.31
Phenols µg/L	40	40	0.054	19.798
Atrazine µg/L	<0.01	<0.01	<0.0000136	<0.00495
Dichloromethane µg/L	<5.0	<5.0	<0.00678	<2.475
Simazine µg/L	<0.01	<0.01	<0.0000136	<0.00495
Toluene µg/L	<0.1	<0.1	<0.000136	<0.0495
Tributyltin µg/L	<0.02	<0.02	<0.0000271	<0.0099
Xylenes µg/L	<0.2	<0.2	<0.000271	<0.0099
Arsenic µg/L	1.2	1.2	0.027	9.899
Chromium mg/L	<0.02	<0.02	<0.027	<9.899
Copper mg/L	<0.02	<0.02	<0.027	<9.899
Cyanide µg/L	7	7	0.00949	3.465
Fluoride µg/L	220	220	0.298	108.9
Lead mg/L	<0.02	<0.02	<0.027	<9.899
Nickel mg/L	<0.02	<0.02	<0.027	<9.899
Zinc mg/L	<0.02	<0.02	<0.027	<9.899
Boron mg/L	0.13	0.13	0.176	64.34
Cadmium mg/L	<0.02	<0.02	<0.027	<9.899
Mercury µg/L	<0.02	<0.02	<0.027	<9.899
Selenium µg/L	2.3	2.3	0.00312	1.138
Barium mg/L	<0.02	<0.02	<0.027	<9.899

Maximum Volume for SW01 is 1356 m³/day

Maximum Volume for SW02 is 40m³/day

ATTACHMENT No E.2
MONITORING & SAMPLING POINTS

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

Grab samples have been collected recently of the effluent from the primary discharge 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 estuary at Burren Rock.

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 Skibbereen:

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

When the proposed WWTP for Courtmacsherry is constructed it will be operated under a Design, Build & Operate contract. A comprehensive

monitoring and sampling programme will be undertaken by the contractor in accordance with the relevant standards and frequencies as set out by Cork County Council.

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ATTACHMENT No E.4

SAMPLING DATA

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Attachment E4 Courtmacsherry Discharge Outlet Table E4

Sample Date	30/10/2008	Average	Kg/day	Kg/year
Sample	Influent			
Location	Lodge Pump Station			
Sample Code	GS1181			
Flow M ³ /Day	*			
pH	7.4	7.4	*	*
Temperature °C	*	*	*	*
Cond 20°C	1622	1622	*	*
SS mg/L	50	50	67.8	24747
NH ₃ mg/L	6.9	6.9	9.356	3415.09
BOD mg/L	48.4	48.4	65.63	23955.096
COD mg/L	130	130	176.28	64342.2
TN mg/L	12	12	16.272	5939.28
Nitrite mg/L	1.451	1.451	1.96	718.16
Nitrate mg/L	3.03	3.03	4.109	1499.67
TP mg/L	3.2	3.2	4.339	1583.81
O-PO4-P mg/L	1.73	1.73	2.346	856.25
SO4 mg/L	78.2	78.2	106.04	38704.31
Phenols µg/L	40	40	0.054	19.798
Atrazine µg/L	<0.01	<0.01	<0.0000136	<0.00495
Dichloromethane µg/L	<5.0	<5.0	<0.00678	<2.475
Simazine µg/L	<0.01	<0.01	<0.0000136	<0.00495
Toluene µg/L	<0.1	<0.1	<0.000136	<0.0495
Tributyltin µg/L	<0.02	<0.02	<0.0000271	<0.0099
Xylenes µg/L	<0.2	<0.2	<0.000271	<0.0099
Arsenic µg/L	1.2	1.2	0.027	9.899
Chromium mg/L	<0.02	<0.02	<0.027	<9.899
Copper mg/L	<0.02	<0.02	<0.027	<9.899
Cyanide µg/L	7	7	0.00949	3.465
Fluoride µg/L	220	220	0.298	108.9
Lead mg/L	<0.02	<0.02	<0.027	<9.899
Nickel mg/L	<0.02	<0.02	<0.027	<9.899
Zinc mg/L	<0.02	<0.02	<0.027	<9.899
Boron mg/L	0.13	0.13	0.176	64.34
Cadmium mg/L	<0.02	<0.02	<0.027	<9.899
Mercury µg/L	<0.02	<0.02	<0.027	<9.899
Selenium µg/L	2.3	2.3	0.00312	1.138
Barium mg/L	<0.02	<0.02	<0.027	<9.899

Maximum Volume for SW01 is 1356 m³/day

Maximum Volume for SW02 is 40m³/day

Attachment E4 Courtmacsherry Discharge Outlet Table E4

Sample Date	30/10/2008	Average	Kg/day	Kg/year
Sample	Effluent			
Location	holding tank before discharge			
Sample Code	GS1180			
Flow M ³ /Day	*			
pH	7.6	7.6	*	*
Temperature °C	*	*	*	*
Cond 20°C	843	843	*	*
SS mg/L	36	36	48.816	17817.8
NH ₃ mg/L	7.5	7.5	10.17	3712.1
BOD mg/L	14.08	14.08	19.092	6968.76
COD mg/L	49	49	66.44	24252.1
TN mg/L	6	6	8.136	2969.64
Nitrite mg/L	0.777	0.777	1.044	381.1
Nitrate mg/L	6.36	6.36	8.624	3147.82
TP mg/L	0.5	0.5	0.678	247.47
O-PO ₄ -P mg/L	1.11	1.11	1.5052	549.38
SO ₄ mg/L	38.8	38.8	52.61	19202.65
Phenols µg/L	<5	<5	<0.00678	<2.475
Atrazine µg/L	<0.01	<0.01	<0.0000136	<0.00495
Dichloromethane µg/L	16.3	16.3	0.00221	8.0675
Simazine µg/L	<0.01	<0.01	<0.0000136	<0.00495
Toluene µg/L	<0.1	<0.1	<0.000136	<0.0495
Tributyltin µg/L	<0.02	<0.02	<0.0000271	<0.0099
Xylenes µg/L	<0.2	<0.2	<0.000271	<0.0099
Arsenic µg/L	1	1	0.00136	0.495
Chromium mg/L	<0.02	<0.02	<0.027	<9.899
Copper mg/L	<0.02	<0.02	<0.027	<9.899
Cyanide µg/L	<5.0	<5.0	<0.00678	<2.475
Fluoride µg/L	170	170	0.231	84.14
Lead mg/L	<0.02	<0.02	<0.027	<9.899
Nickel mg/L	<0.02	<0.02	<0.027	<9.899
Zinc mg/L	<0.02	<0.02	<0.027	<9.899
Boron mg/L	0.081	0.081	0.1098	40.09
Cadmium mg/L	<0.02	<0.02	<0.027	<9.899
Mercury µg/L	<0.02	<0.02	<0.027	<9.899
Selenium µg/L	2.8	2.8	0.003797	1.386
Barium mg/L	<0.02	<0.02	<0.027	<9.899

maximum volume for sw01 is 1356m³/day
maximum volume for SW02 is 40m³/day

Attachment E4 Courtmacsherry Downstream Table E4

Sample Date	30/10/2008	Average	
Sample	River	Average	
Sample Code	GS1182		
Flow M ³ /Day	*		
pH	7.9	7.9	
Temperature °C	*	*	
Cond 20°C	41	41	
SS mg/L	162	162	
NH ₃ mg/L	6.8	6.8	
BOD mg/L	<1.0	<1.0	
COD mg/L	61	61	
TN mg/L	<1.0	<1.0	
Nitrite mg/L	*	*	
Nitrate mg/L	*	*	
TP mg/L	<0.3	<0.3	
O-PO ₄ -P mg/L	<0.05	<0.05	
SO ₄ mg/L	2285.4	2285.4	
Phenols µg/L	6	6	
Atrazine µg/L	<0.01	<0.01	
Dichloromethane µg/L	6.7	6.7	
Simazine µg/L	<0.01	<0.01	
Toluene µg/L	<0.1	<0.1	
Tributyltin µg/L	<0.02	<0.02	
Xylenes µg/L	<0.2	<0.2	
Arsenic µg/L	<0.2	<0.2	
Chromium mg/L	<0.02	<0.02	
Copper mg/L	<0.02	<0.02	
Cyanide µg/L	<5.0	<5.0	
Fluoride µg/L	0.64	0.64	
Lead mg/L	<0.02	<0.02	
Nickel mg/L	<0.02	<0.02	
Zinc mg/L	<0.02	<0.02	
Boron mg/L	2.964	2.964	
Cadmium mg/L	<0.2	<0.2	
Mercury µg/L	<0.02	<0.02	
Selenium µg/L	28.2	28.2	
Barium mg/L	<0.02	<0.02	

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