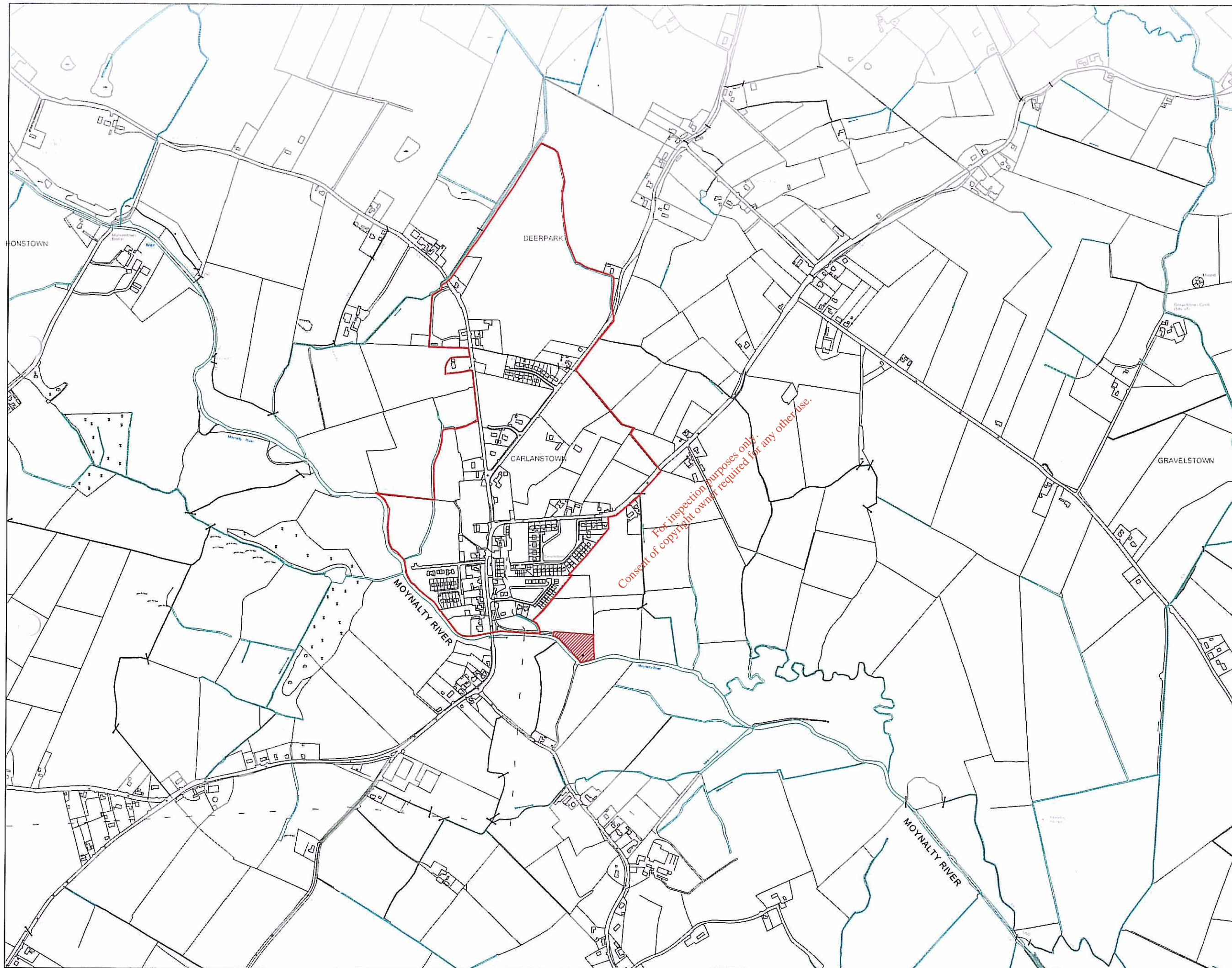


SECTION B – GENERAL

Attachment B1: Applicant Details

– Drawing No. 5270 - 2780

For inspection purposes only.
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LEGEND

WWTP SITE BOUNDARY

AGGLOMERATION BOUNDARY

NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chkd.
A	10.05.09	ISSUE TO MEATH CO. CO.	R.K.	M.H.

Client:

MEATH COUNTY COUNCIL

Project:

CARLANSTOWN WASTE WATER DISCHARGE LICENCE APPLICATION

Title:

AGGLOMERATION OUTLINE PLAN

(SECTION / ATTACHMENT B.1)

Scale @ A3: 1 : 10,000

Prepared by: R.K. Checked: M.H. Date: MAY 09

Project Director: M.F.G.

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TOBIN Consulting Engineers,
Market Square, Castlebar,
Co. Mayo, Ireland.
tel: +353-(0)94-9021401
fax: +353-(0)94-9021534
e-mail: castlebar@tobin.ie
www.tobin.ie

Drawing No.: 5270-2780

Revision: A


SECTION B – GENERAL

Attachment B2: Location of Wastewater Treatment Plant

- Drawing No. 5270 – 2781
- Drawing No. 5270 – 2782

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LEGEND

- WWTP SITE BOUNDARY
- PRIMARY DISCHARGE
- STORMWATER OVERFLOW

NOTES

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- ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chkd
A	18.01.09	ISSUE TO MEATH CO. CO.	R.K.	M.H.

Client:

MEATH COUNTY COUNCIL

Project:

CARLANSTOWN WASTE WATER DISCHARGE LICENCE APPLICATION


Title:

WWTP LOCATION & SITE BOUNDARY (INCLUDING ALL DISCHARGE, MONITORING & SAMPLING POINTS)
(SECTION / ATTACHMENT B.2)

Scale @ A3: 1 : 10,000

Prepared by:	Checked:	Date:
R.K.	M.H.	MAY 09

Project Director: M.F.G.

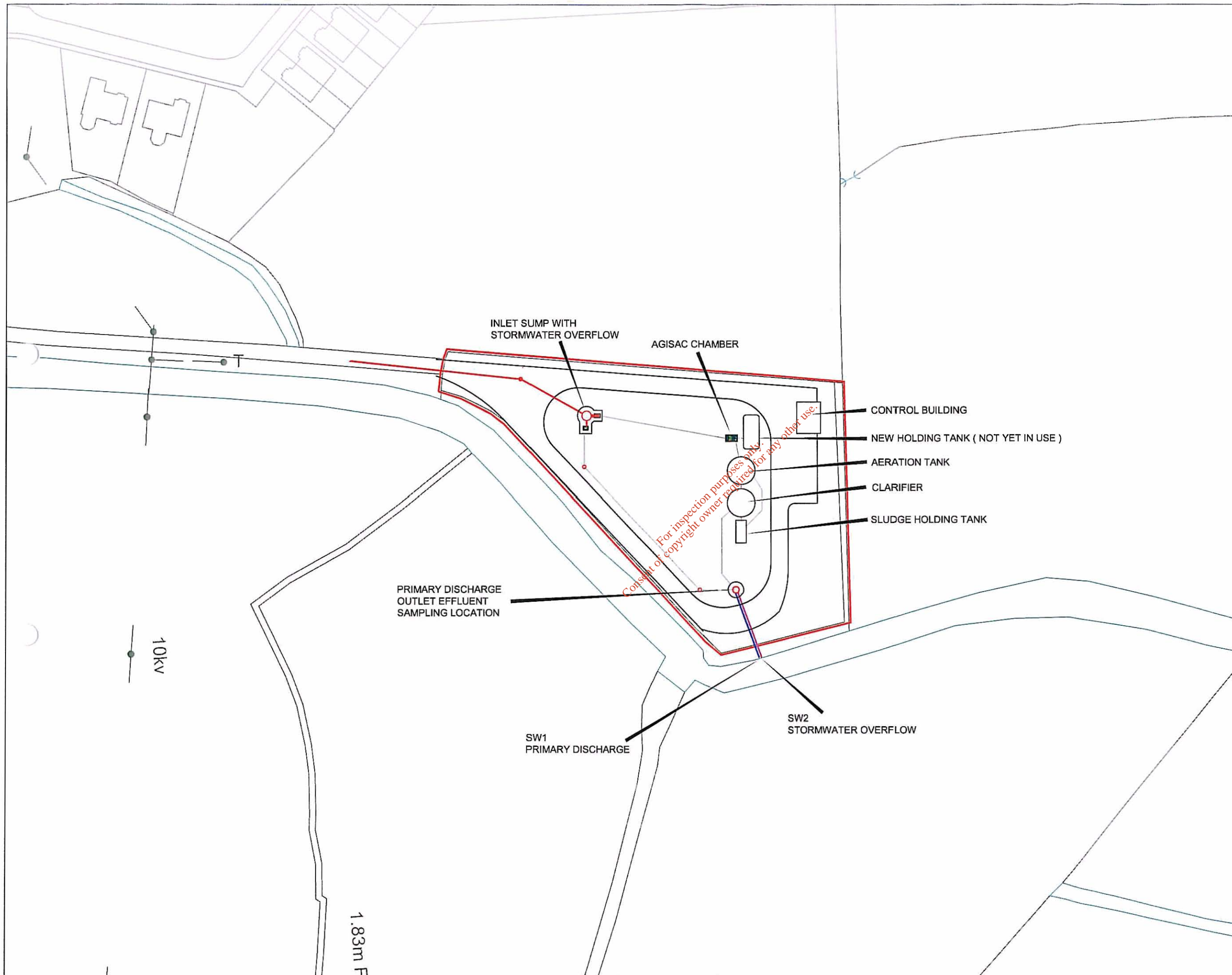



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Drawing No.: 5270-2781

Revision: A





WWTP SITE BOUNDARY

PRIMARY DISCHARGE

STORMWATER OVERFLOW

NOTES

- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
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- ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chd.
A	18.08.09	ISSUE TO MEATH CO. CO.	R.K.	M.H.

Client: MEATH COUNTY COUNCIL


Project: CARLANSTOWN WASTE WATER DISCHARGE LICENCE APPLICATION

Title: SITE LAYOUT PLAN OF EXISTING WWTP (INCLUDING MONITORING & SAMPLING POINTS) (SECTION / ATTACHMENT B.2)

Scale @ A3: 1 : 1000

Prepared by: R.K. Checked: M.H. Date: MAY 09

Project Director: M.F.G.



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Drawing No.: 5270-2782 Revision: A

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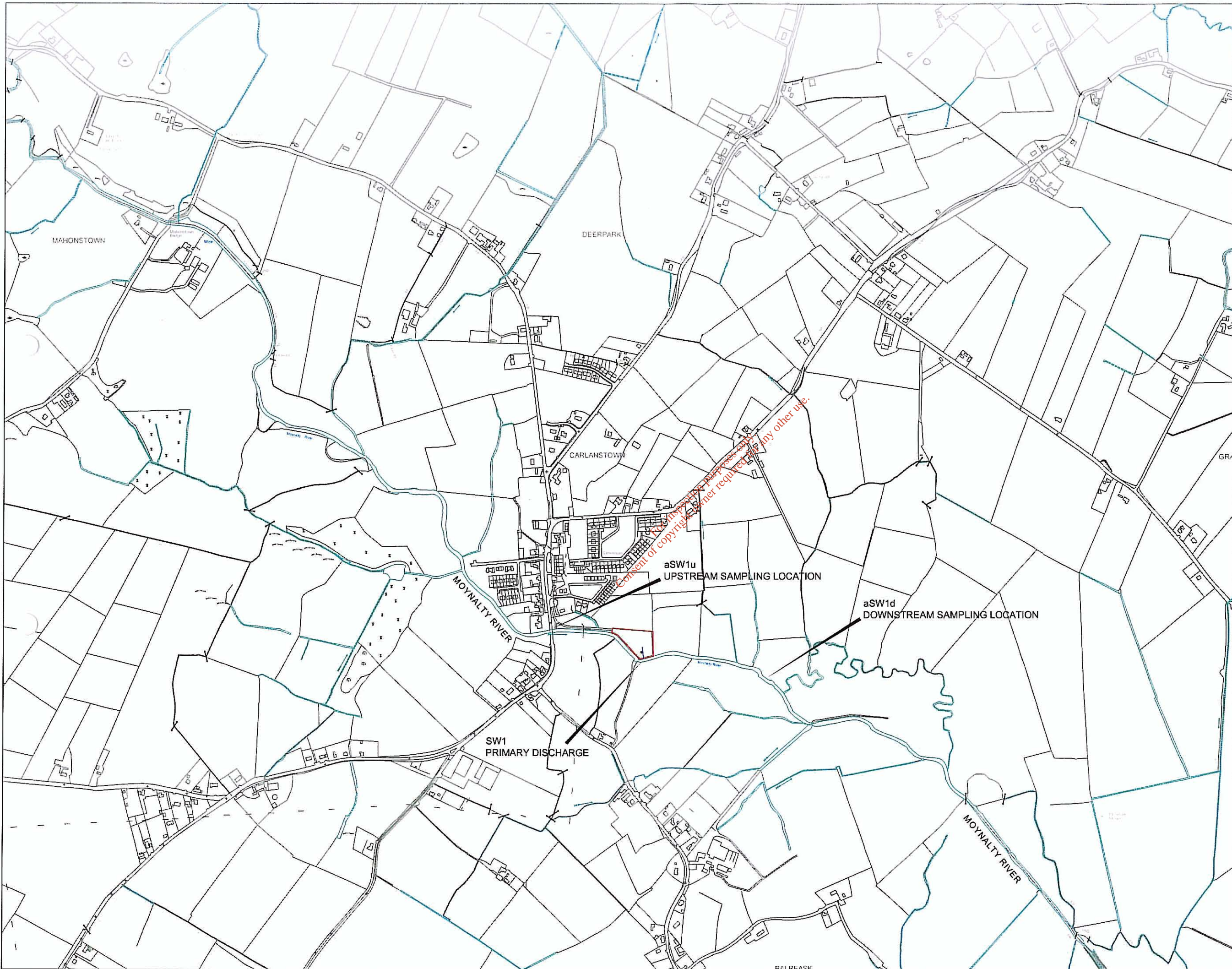
EPA Export 26-07-2013:14:22:23

SECTION B – GENERAL

Attachment B3: Location of Primary Discharge Point

– Drawing No. 5270 - 2784

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LEGEND

WWTP SITE BOUNDARY

PRIMARY DISCHARGE

NOTES

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

A	10.00.00	ISSUE TO MEATH CO. CO.	R.K.	M.H.
Rev	Date	Description	By	Chd.

Client:

MEATH COUNTY COUNCIL

Project:

CARLANSTOWN WASTE WATER DISCHARGE LICENCE APPLICATION

Title:

LOCATION OF PRIMARY DISCHARGE POINT (INCLUDING ALL MONITORING, SAMPLING & EMISSION POINTS) (SECTION / ATTACHMENT B.3)

Scale @ A3: 1 : 10,000

Prepared by: R.K. Checked: M.F.G. Date: MAY 09

Project Director: M.F.G.

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www.tobin.ie

Drawing No.: 5270-2784 Revision: A

SECTION B – GENERAL

Attachment B4: Location of Secondary Discharge Points

No secondary discharge points on Carlanstown Sewerage System

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SECTION B – GENERAL

Attachment B5: Location of Stormwater Overflow

– Drawing No. 5270 - 2786

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SECTION B – GENERAL

Attachment B6: Relevant Planning Authority

Please see overleaf for the following documents:

- **Wording of Part X Planning Advertisement (November, 1998)**
- **Executive Engineer's Report (January 8th, 1999)**
- **County Secretary's Report (January 11th, 1999)**
Relating to construction of a new sewerage scheme and waste water treatment works to serve Carlanstown Agglomeration.
- **Part X - Planning Certificate (June 2009)**

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MEATH COUNTY COUNCIL

**Part X of the Local Government (Planning and Development) Regulations, 1994
as amended by
the Local Government (Planning and Development) Regulations, 1995**

Carlanstown Sewerage Scheme

Meath County Council hereby gives notice that, in accordance with Article 131 of the above Regulations, the Council proposes to commence work on the provision of a New Sewerage Scheme at Carlanstown, Kells, County Meath. The overall scheme will consist of the following:-

- (a) Sewage collection pipe network, servicing the village.
- (b) Secondary treatment plant with an initial capacity for 600 population equivalent.
- (c) Sludge Holding Tank
- (d) Outfall pipe discharging treated effluent.
- (e) Provision will be made for future development of collection pipe network and treatment plant.

The structures that are the subject of this planning process are those to house various items of mechanical, chemical and electrical installation associated with the sewage treatment process (a, b, c, d and e above).

Plans and particulars of the proposed development will be available for inspection at the Planning Section, Meath County Council, County Hall, Navan, Co. Meath during the hours of 9.30 a.m. to 5.00 p.m. daily Monday to Friday except bank holidays from the date of this notice until Wednesday 4th November, 1998.

Submissions or observations with respect to the proposed development, dealing with the proper planning and development of the area in which the development is situated, may be made in writing to the County Secretary, Meath County Council, County Hall, Navan, Co. Meath on or before Monday 23rd November, 1998.

D. McLoughlin
County Secretary

Planning Report

From: M. Killeen, A/S.E.E.
File No.: Part X Application as per 1994 L.G.(P&D) Regulations.
O.S No.:
Applicant: Meath Co. Co.
Road No.:
Townland:
Description of Development: Carlanstown Sewerage Scheme

I have examined the plans and particulars for the provision of public sewerage and a sewage treatment plant in Carlanstown. The scheme consists of the following:

- (1) Sewage collection pipe network, servicing the village.
- (2) Secondary treatment plant with an initial capacity for 600 population equivalent.
- (3) Sludge holding tank.
- (4) Outfall pipe discharging treated effluent.
- (5) Provision will be made for future development of collection pipe network and treatment plant.

One submission was made in relation to the proposed development, that of the Eastern Regional Fisheries Board (E.R.F.B.). The E.R.F.B. welcome the proposed treatment plant. They highlight the fact that the receiving waters, the Moynalty River, is an important salmonid nursery river and a tributary of the River Blackwater and Boyne. The E.R.F.B. consider the provision of tertiary treatment for the removal of phosphorus to be desirable to help alleviate eutrophication in the River Boyne. I recommend that tertiary treatment be provided to ensure that the standards recommended in the River Boyne Water Quality Management Plan are obtained.

It is the objective of the Carlanstown Development Plan to facilitate the provision of a sewerage scheme and a sewage disposal system to serve the village of Carlanstown. The proposed development, therefore, complies with the provisions of the Carlanstown Development Plan and with the proper planning and development of the area. The proposed ~~secondary~~ ^{proposed} treatment shall incorporate tertiary treatment for the removal of phosphorus.

M. Killeen

5/1/99.

11th January 1999

To: The Chairman and each member of Meath County Council

Re: Carlanstown Sewerage Scheme

Dear Member

In accordance with the Local Government (Planning and Development) Regulations, 1994, as amended, Meath County Council published notice of the details of the above scheme in the Meath Chronicle dated 3rd October 1998.

The overall scheme includes the proposals (1-5) as set out on the attached report of Mr M Killeen Assistant Senior Executive Engineer Planning Department

The structures that are the subject of this planning process are those to house the various items of mechanical, chemical and electrical installation associated with the sewage treatment process.

Only one submission was received in response to the public notice and the closing date for lodging submissions to the Council has now expired. This submission from ERFB is dealt with by Mr Killeen in his report and he recommends that tertiary treatment for removal of phosphorous be provided as part of the new system. In this report he states that the proposals (a) comply with the provisions of the Carlanstown Development Plan and (b) are in accordance with the proper planning and development of the area.

It is proposed to proceed with these proposals including the tertiary treatment as recommended

D. McLoughlin,
County Secretary

Comhairle Chontae na Mí

Halla an Chontae, An Uaimh, Contae na Mí

Fón: 046 - 9097000

Cuirtear Fáilte Roimh Chomhfhreagrú i nGaeilge



Meath County Council

County Hall, Navan, Co. Meath

Fax: 046 - 9097001

eMail: info@meathcoco.ie www.meath.ie

Corporate Services Section

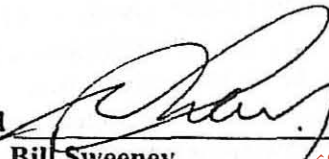
17th June 2009

I hereby certify that the members of Meath County Council, at the Monthly Meeting on 11th January 1999 resolved to consider report in accordance with Part X of the Local Government(Planning and Development)Regulations 1994 in respect of the provision of a public sewerage and a sewage treatment plant in Carlanstown, Co Meath

The Part X was passed on the proposal of Deputy John Brady and seconded by Deputy John Farrelly.

Councillor Hugh Gough presided

Signed


Bill Sweeney
Senior Executive Officer

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SECTION B – GENERAL

Attachment B8: Site Notice & Newspaper Advertisement

- **Copy of Site Notice**
- **Drawing No. 5270-2787**
- **Photograph of Site Notice erected on site**
- **Copy of Newspaper Advertisement**

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Site Notice



Meath County Council

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

Applicant: Meath County Council, County Hall, Railway Street, Navan, County Meath

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the waste water discharges from the waste water works serving the agglomeration of: Carlanstown, County Meath. The agglomeration is served by the Carlanstown Waste Water Treatment Plant, Carlanstown, County Meath (Grid Reference 276723E, 279220N). Carlanstown Waste Water Treatment Plant utilises biological processes in conjunction with physical settlement (i.e. Secondary Treatment) and nutrient removal to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following existing discharges:

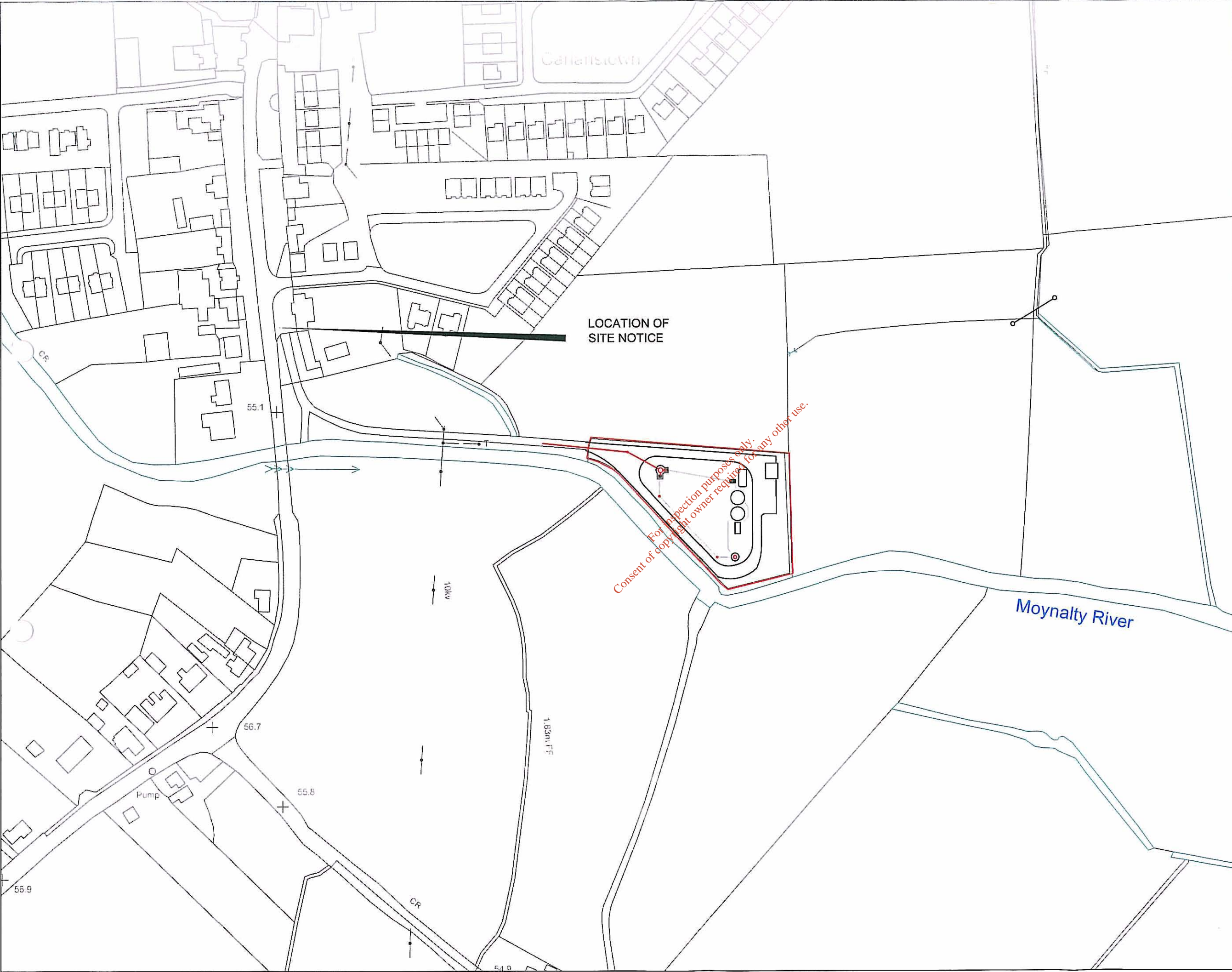
Primary Discharge Point SW1 - 276742E, 279164N (Receiving Waters: Moynalty River)

Storm Water Overflow Discharge Point SW2 - 276742E, 279164N (Receiving Waters: Moynalty River)

A copy of the:

- (i) Waste Water Discharge Licence Application, and;
 - (ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.



WWTP SITE BOUNDARY

NOTES

- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
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- ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
- ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Rev	Date	Description	By	Chkd.
A	18.05.09	ISSUE TO MEATH CO. CO.	R.K.	M.H.

Client:

MEATH COUNTY COUNCIL

Project:

CARLANSTOWN WASTE WATER DISCHARGE LICENCE APPLICATION

Title:

LOCATION OF SITE NOTICE

(SECTION / ATTACHMENT B.8)

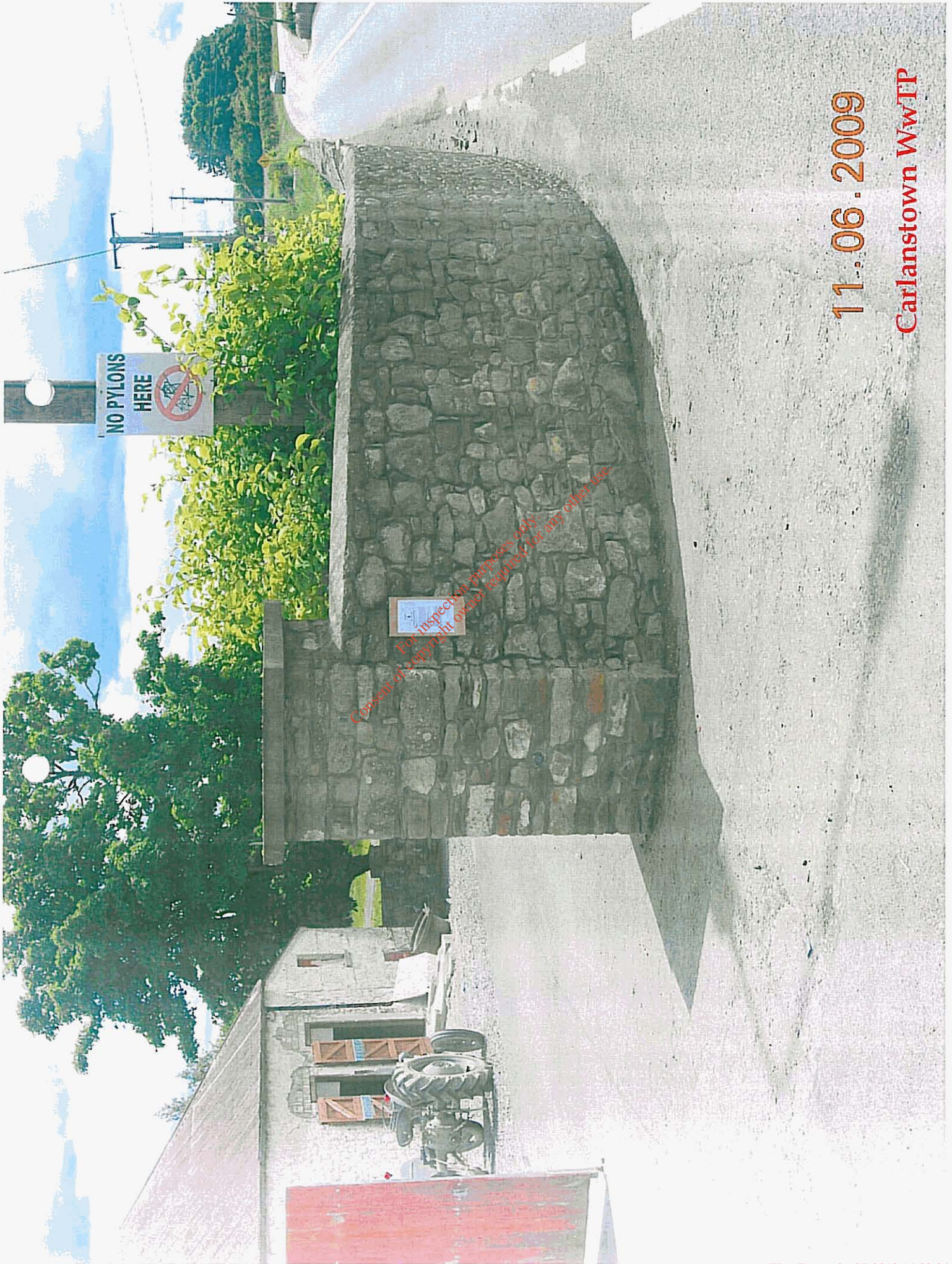
Scale @ A3: 1 : 2000

Prepared by: R.K. Checked: M.H. Date: MAY 09

Project Director: M.F.G.

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fax: +353-(0)94-9021534
e-mail: castlebar@tobin.ie
www.tobin.ie

Drawing No.: 5270-2787 Revision: A



11.06.2009
Carlanstown WwTP



comhairle chontae na mí
meath county council

MEATH LOCAL AUTHORITIES - UDARAS AITIULA NA MÍ
Meath County Council & The Town Councils of Navan, Trim & Kells

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

Approved: Meath County Council, County Hall,
Railway Street, Navan, County Meath

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the waste water discharges from the waste water works serving the agglomeration of Crossakeel, Kells, County Meath. The agglomeration is served by the Crossakeel Waste Water Treatment Plant, Crossakeel, Kells, County Meath (Grid Reference 264551E, 274285N). Crossakeel Waste Water Treatment Plant utilises biological processes in conjunction with physical settlement (i.e. Secondary Treatment) to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following existing discharges:

Primary Discharge Point SW1 - 263902E, 274483N (Receiving Water: Tributary leading to Athboy River)

A copy of the:

(i) Waste Water Discharge Licence Application, and;
(ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the waste water discharges from the waste water works serving the agglomeration of Nobber, County Meath. The agglomeration is served by the Nobber Waste Water Treatment Plant, Nobber, County Meath (Grid Reference 282326E, 286521N). Nobber Waste Water Treatment Plant utilises biological processes in conjunction with physical settlement (i.e. Secondary Treatment) to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following existing discharges:

Primary Discharge Point SW1 - 282084E, 286355N (Receiving Water: River Derr)

A copy of the:

(i) Waste Water Discharge Licence Application, and;
(ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the waste water discharges from the sewage treatment facilities serving the agglomeration of Moynalty, Kells, County Meath. The agglomeration is currently served by the Moynalty Sewage Treatment Facilities, Moynalty T.D. (Grid Reference 273350E, 282705N) and Ballyr T.D. (Grid Reference 274252E, 281672N), both located in the village of Moynalty, Kells, County Meath. The existing Moynalty Sewage Treatment Facilities comprise 2 no. conventional septic tanks and percolation areas to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

A new waste water treatment plant is, at present, being constructed to serve Moynalty Agglomeration. The proposed Moynalty Waste Water Treatment Plant will be located at Moynalty T.D., Kells, County Meath (Grid Reference 273729E, 282308N). The proposed Moynalty Waste Water Treatment Plant will utilise biological processes in conjunction with physical settlement, and nutrient removal to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following existing discharges:

Primary Discharge Point SW1 - 273352E, 282805N (Receiving Waters: Discharge to percolation area, Moynalty T.D.)
Secondary Discharge Point SW2 - 274246E, 281666N (Receiving Waters: Discharge to percolation area, Ballyr T.D.)

This application relates to the following proposed discharges:

Proposed Primary Discharge Point PSW3 - 273707E, 282289N (Receiving Water: Moynalty River)
Proposed Storm Water Overflow Discharge Point PSW4 - 273707E, 282289N (Receiving Water: Moynalty River)

A copy of the:

(i) Waste Water Discharge Licence Application, and;
(ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.

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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the proposed waste water discharges from the newly constructed waste water works, which will serve the agglomeration of Kildoon, County Meath.

A new waste water treatment plant is, at present, being constructed to serve Kildoon Agglomeration. The proposed Kildoon Waste Water Treatment Plant will be located at Kilgrague T.D., Kildoon, County Meath (Grid Reference 295469E, 241863N). The proposed Kildoon Waste Water Treatment Plant will utilise biological processes in conjunction with physical settlement, and tertiary treatment to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following proposed discharges:

Proposed Primary Discharge Point PSW1 - 295635E, 241758N (Receiving Water: Tributary of the Rye Water (Liffey))
Proposed Storm Water Overflow Discharge Point PSW2 - 295635E, 241758N (Receiving Water: Tributary of the Rye Water (Liffey))

A copy of the:

(i) Waste Water Discharge Licence Application, and;
(ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the waste water discharges from the waste water works serving the agglomeration of Keshdown, Navan, County Meath. The agglomeration is served by the Keshdown Waste Water Treatment Plant, Keshdown, Navan, County Meath (Grid Reference 297452E, 265010N). Keshdown Waste Water Treatment Plant utilises biological processes in conjunction with physical settlement (i.e. Secondary Treatment) and nutrient removal to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following existing discharges:

Primary Discharge Point SW1 - 297455E, 264979N (Receiving Water: River Nanny)
Secondary Discharge Point SW2 - 297455E, 264979N (Receiving Water: River Nanny)
Storm Water Overflow Discharge Point SW3 - 297455E, 264979N (Receiving Water: River Nanny)

A copy of the:

(i) Waste Water Discharge Licence Application, and;
(ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, County Wexford.

Meath County Council, County Hall, Railway Street, Navan, County Meath is making an application to the Environmental Protection Agency (the Agency), in accordance with the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) for a licence authorising the waste water discharges from the waste water works serving the agglomeration of Drumconrath, County Meath. The agglomeration is served by the Drumconrath Waste Water Treatment Plant, Drumconrath, County Meath (Grid Reference 288506E, 290151N). Drumconrath Waste Water Treatment Plant utilises biological processes in conjunction with physical settlement (i.e. Secondary Treatment) to provide treatment to incoming waste water for compliance with the relevant legislative effluent treatment standards.

This application relates to the following existing discharge:

Primary Discharge Point SW1 - 288481E, 290162N (Receiving Water: Tributary leading to Garra River)

A copy of the:

(i) Waste Water Discharge Licence Application, and;
(ii) 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 headquarters of the Environmental Protection Agency, Johnstown Castle Estate, County Wexford, and at the offices of Meath County Council, County Hall, Railway Street, Navan, County Meath.

Submissions in relation to the application may be made to the Agency at its headquarters: Environmental



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Mr. Michael Griffin, Member Executive Officer, Planning Department, Merced County Council, Abbey Walk, Abbey Road, Merced, Ca. 95369

SECTION B – GENERAL

Attachment B9(i):Population Equivalent of Agglomeration

Calculation of Population Equivalent of the Agglomeration served by the Wastewater
Treatment Works – Existing and Future

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Estimated Existing Load for Carlanstown WWTP for Year 2009							
Description				DWF (m3/d)	BOD (kg/d)	SS (kg/d)	Population Equivalent
	House Count	Occupancy	Unit Loads	180 lhd	0.06 kg/d	0.04 kg/d	
Domestic Load							
Existing Domestic Load	215	2.69	578	104.1	34.7	23.1	578 pe
Domestic Allowance for Infiltration				0.0	0.0	0.0	0 pe
Total Domestic Loading (a)				104.1	34.7	23.1	578 pe
	Units	Unit DWF (m³/d)	BOD Total (kg BOD/d)				
Non Domestic Loading							
Commercial - Retail Loading				2.6	0.9	0.6	14 pe
Industrial Loading				0.0	0.0	0.0	0 pe
Institutional Loading				2.0	0.7	0.5	11 pe
Non Domestic Allowance for Infiltration				0.0	0.0	0.0	0 pe
Total Non Domestic Load (b)				4.6	1.6	1.0	26 pe
Total Estimated Existing Load 2009 (a+b)				108.7	36.3	24.2	604 pe

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Estimated Future Load for Carlanstown WWTP for Year 2016							
Description				DWF (m3/d)	BOD (kg/d)	SS (kg/d)	Population Equivalent
	House Count	Occupancy	Unit Loads	180 lhd	0.06 kg/d	0.04 kg/d	
Domestic Load							
Existing Domestic Load	257	2.73	701	126.2	42.1	28.0	701 pe
Domestic Allowance for Infiltration			0	0.0	0.0	0.0	
Total Domestic Loading (a)				126.2	42.1	28.0	701 pe
	Units	Unit DWF (m³/d)	BOD Total (kg BOD/d)				
Non Domestic Loading							
Commercial-Retail Loading				2.6	0.9	0.6	14 pe
Industrial Loading				0.0	0.0	0.0	0 pe
Institutional Loading				2.0	0.7	0.5	11 pe
Non Domestic Allowance for Infiltration							
Allowance for Future Non-Domestic							5 pe
Total Non Domestic Load (b)				4.6	1.6	1.0	31 pe
Total Estimated Future Load Year 2016 (a+b)				130.8	43.7	29.1	731 pe

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Summary of Tables

A property count was conducted by TOBIN Consulting Engineers in Carlanstown for the purposes determining the contributing (theoretical) hydraulic and biological load to Carlanstown WWTP. Estimated theoretical loadings arising from domestic and non-domestic properties forming part of the agglomeration were then compared with actual site-specific influent flow and load data, which revealed the following population equivalents (Year 2009):

Existing Population Equivalent (Year 2009)		
Theoretical value	642 P.E	based upon property count
Actual value	604 P.E.	based upon influent flow and load data
Difference	38 P.E.	

A number of residential units were recently constructed in Carlanstown, which are connected to the public sewer. However, given the slight divergence between the actual and theoretical calculations of biological loadings to the plant, it is thought that a proportion of these units (up to 14 units) are unoccupied and thus not contributing to plant loadings at present. This would provide an explanation for the minor divergence of house count and actual load values of up to 38 P.E.

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SECTION B – GENERAL

Attachment B9(ii): Pending Development

- Information on the calculated population equivalent (p.e.) to be contributed to the waste water works as a result of those planning permissions granted
- The percentage of the projected p.e. to be contributed by the non-domestic activities
- The ability of the waste water works to accommodate this extra hydraulic and organic loading without posing an environmental risk to the receiving water habitat.

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ATTACHMENT B.9(ii) PENDING DEVELOPMENT

Source	Existing P.E. (2009)	Pending P.E.	Projected P.E. (2016)
Domestic	578	98	24
Commercial	26	5	0
Trade effluent	0	0	0
Imported liquid wastes	0	0	0
Sub-total	604	103	24
TOTAL (existing + pending + projected)			731
<p>Pending P.E.</p> <p>Planning has been granted for 36 residential units within the Carlanstown Agglomeration. 36×2.73 (persons per unit) = additional 98 P.E.</p> <p>Pending development with regards to commercial activity will contribute an additional P.E. of 5 to Carlanstown WWTP. With regards to industrial development, there are no pending developments.</p> <p>TOTAL PENDING P.E. = 103</p>			
<p>Projected P.E. by 2016 (i.e. the maximum P.E.)</p> <p>It is estimated that Carlanstown WWTP will serve a population equivalent of 731 by 2016.</p>			

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PENDING DEVELOPMENT – CARLANSTOWN AGGLOMERATION

As shown on the Pending Development Table, the calculated population equivalent to be contributed to the waste water works as a result of those planning permissions already granted is 103 P.E.

The percentage of the *projected* P.E. to be contributed by the non-domestic activities is as follows:

Total Projected P.E. (2016):	24 P.E.*
Projected Non-Domestic Portion (2016):	0 P.E.*

*(does not include existing population equivalent or pending devt. figures)

Projected Non-Domestic expressed as a percentage of Total Projected (2016): 0%

It is estimated that Carlanstown WWTP is currently serving an existing population equivalent of 604. The calculated population equivalent to be contributed to the waste water works as a result of pending development (planning permissions already granted) is 103 P.E. By including this pending contribution, Carlanstown WWTP may be required to cater for 707 PE in the short to medium term.

The current waste water treatment plant at Carlanstown was commissioned during 2002. The existing plant was originally designed for a notional capacity of 600 P.E., however the process tanks (aeration basin and final clarifier) are sized such that the actual capacity of the plant is significantly higher. 'As constructed' tank dimensions were recorded during a site visit (conducted for the purposes of this application). Preliminary process design checks were undertaken using those dimensions combined with site specific influent flow and load data, which has revealed that the aeration basin is in fact capable of catering for a biological loading of least 820 P.E., with the possibility of further improvements upon this value given more detailed process assessments.

Preliminary process design checks also revealed that the secondary (final) clarifier is in fact capable of catering for a biological loading in excess of 1,000 P.E. Hence, biological loadings of up to at least 820 P.E. will be easily accommodated within the various design constraints (e.g. required retention times and upward flow velocities, etc.) at the current Carlanstown WWTP. 'As constructed' process plant dimensions have been provided in Attachment C.1 of this application.

An anoxic tank is currently under construction on site, which will be commissioned in the near future. This will increase the levels of nitrate reduction at the plant.

Section E contains final effluent monitoring results for 2007/2008. The results have been quite favourable in terms of compliance with UWWT regulation requirements, thus indicating the existing facility is capable of handling current loadings arriving at the plant.

Carlanstown Waste Water Treatment Plant will also be capable of accommodating the projected maximum population equivalent (2016) of 731 without posing an environmental risk to the receiving water habitat..

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SECTION B – GENERAL

Attachment B10: Capital Investment Programme

– Capital Investment Programme – Carlanstown Sewerage Scheme

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CAPITAL INVESTMENT PROGRAMME – CARLANSTOWN SEWERAGE SCHEME

1.0 INTRODUCTION

The WWTP facilities at Carlanstown were constructed and commissioned in 2002. Secondary treatment is provided by means of extended aeration, clarification and nutrient removal. The plant has a notional design capacity of 600 P.E. However, as discussed in Attachment B.9(ii), the process units are oversized and hence the actual capacity of the plant is significantly higher at 820 P.E. at minimum. A full description of the treatment facilities has been provided in Attachment C.1.

As stated in Attachment B.9(ii), the treatment facility is operating in a satisfactory manner. Treated effluent monitoring results for 2007/2008 have been favourable in terms of compliance with UWWT regulation requirements, thus indicating the existing facility is capable of handling loadings arriving at the plant.

Extensive investment, amounting to in excess of €1.5M, has been made towards Carlanstown Sewerage Scheme, which included the construction of a modern treatment plant and provision of an extensive sewer network. More recently an anoxic tank was installed at the treatment facility, which will be commissioned in the near future. This will increase the levels of nitrate reduction.

Meath County Council currently has no plans for further expansion or upgrade of Carlanstown Waste Water Treatment Plant.

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