

Mr. Peter Webster  
Regional Chemist  
EPA Regional Inspectorate  
Inniscarra  
Cork  
Co. Cork

26/07/2010

Our Ref: **D0202-01/MON**

Agglomeration Name : Mitchelstown

Dear Mr. Webster,

Please note that the Agency has granted a Waste Water licence in respect of the agglomeration described in the table below.

All relevant information regarding this agglomeration is included in this table. Please carry out monitoring of this agglomeration as outlined.

If you have any queries regarding this monitoring request please contact Úna O'Callaghan and if you have any queries in regarding this agglomeration please contact the relevant Office of Environmental Enforcement Senior and Regional Inspectors in Water Enforcement, (Mr Brendan Wall and John Feehan, respectively)

Yours sincerely,

---

Una O'Callaghan  
Inspector  
Programme Officer  
**Environmental Licensing Programme**

C.C. Mr. Brendan Wall, Office of Environmental Enforcement Senior Inspector Water Enforcement

C.C. Mr. John Feehan

**Waste Water Licence Environmental Monitoring –  
Regional Laboratory Information Form**

**Details of Licensee**

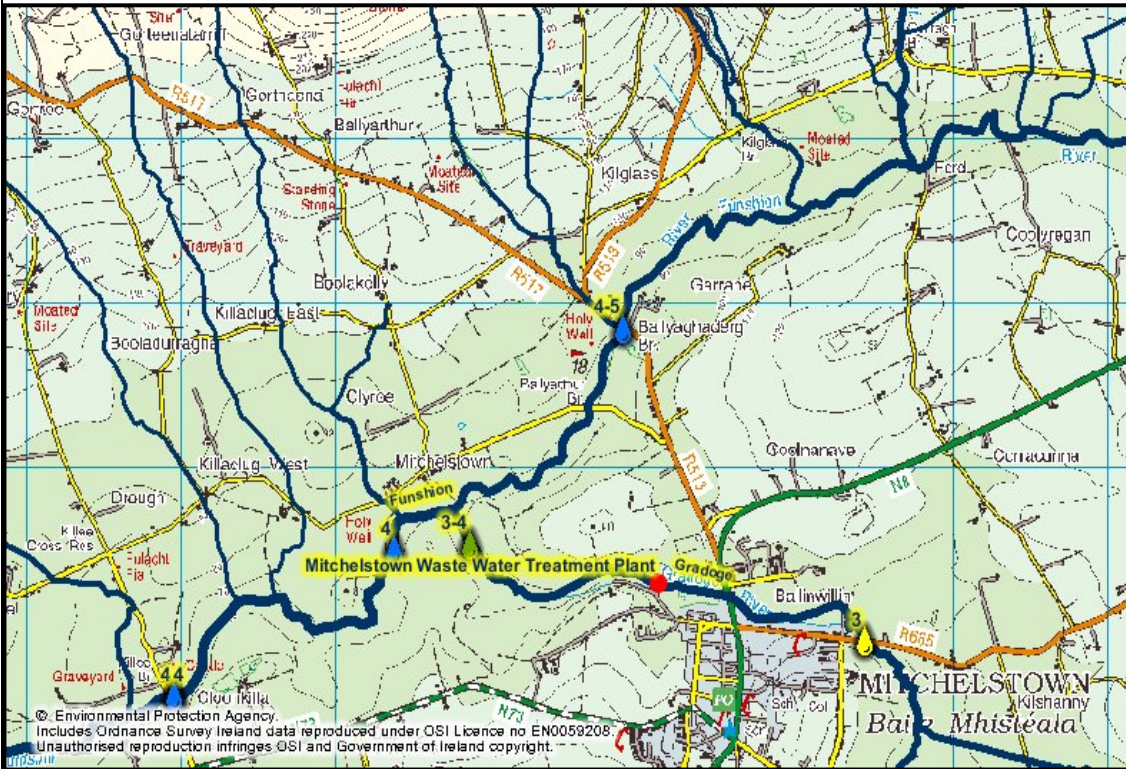
<b>Name of Licensee</b>	Cork County Council
<b>Licence Number</b>	D0202-01
<b>Name of Agglomeration</b>	Mitchelstown
<b>Address of Agglomeration</b>	Mitchelstown, County Cork
<b>National Grid Reference of Primary Discharge</b>	E179642 N113684
<b>Contact Person for Licensee</b>	Mr. Paddy O’Friel
<b>Position of Contact Person</b>	Substitute Senior Engineer
<b>Phone Number of Contact Person</b>	022- 30441 (Mobile 087/2700065)
<b>Contact Person on Site/ with Site Access</b>	Mr. Brendan O’Gorman
<b>Phone number of Agglomeration and/ or Phone Number of Contact Person with Site Access (if different)</b>	025 84319
<b>Site Manned</b>	Yes
<b>Frequency of EPA Laboratory Compliance Monitoring (in accordance with charges)</b>	2 x 0.5 days
<b>Size of Agglomeration as per Schedule 2 of the Waste Water Discharge (Authorisation) Regulations, 2007</b>	2,001 – 10,000 p.e.
<b>Waste Water Treatment Plant Present and Type</b>	Yes Secondary

## Location Plan

### Directions to the agglomeration

The Mitchelstown wastewater treatment plant (WWTP) is located to the west of Mitchelstown on the banks of the River Gradoge. The River Gradoge flows through the town of Mitchelstown before it joins the River Funshion. The primary discharge from the agglomeration is to the River Funshion.

The WWTP is adjacent to the Dairygold Co-operative Society Limited (P0404-02). The River Gradoge flows between the two sites.



### Any hazards, safety information relevant to agglomeration

No hazards identified on site. The monitoring point for the agglomeration has yet to be identified and agreed by the Agency. The agglomeration includes discharges from P0404-02 which by-pass the WWTP and combine prior to discharge to the River Funshion.

## **Description of Monitoring Required: Monitoring Points and Summary of Parameters**

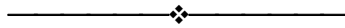
### *A.1 Primary Waste Water Discharge*

**Primary Discharge Point Code:** SW1-MITC E 179642, N 113684

**Name of Receiving Waters:** River Funshion IE\_SW\_18\_1836

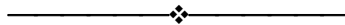
**Monitoring Point** To be agreed by the Agency

<b>Parameter</b>	<b>Emission Limit Value</b>
<b>pH</b>	6.5 -9
	<b>mg/l</b>
<b>CBOD</b>	7
<b>COD</b>	80
<b>Suspended Solids</b>	15
<b>Ammonia (as N)</b>	0.5
<b>Orthophosphate (as P)</b>	0.3
<b>Sulphate (as SO<sub>4</sub>)</b>	600
<b>Chlorides</b>	2000



### *A.2 Secondary Waste Water Discharges*

There shall be no Secondary Waste Water Discharges.



### *A.3 Discharges to be discontinued*

No discharge is required to be discontinued in this schedule.



#### A.4 Storm Water Overflows

Discharge Point Code	Location	Name of Receiving Waters
SW2-MITC	Storm overflow from storm water settlement tanks at Mitchelstown WWTP(E:181000 N:113318)	River Gradoge
SW3-MITC	Storm water overflow from Clonmel Road pumping station (E:181857 N:113075)	River Gradoge
SW4-MITC	Storm water overflow from Ballynamona pumping station (E182454 N:111778)	River Gradoge
SW5-MITC	Storm water overflow point (E181638 N113133)	River Gradoge

#### B.1 Monitoring of Primary Waste Water Discharge <sup>Note 2</sup>

Primary Discharge Point Code: SW1-MITC

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Continuous <sup>Note 1</sup>	On-line flow meter with recorder
pH	Daily	pH electrode/meter and recorder
Conductivity	Monthly <sup>Note 2</sup>	Conductivity Meter
Carbonaceous Biochemical Oxygen Demand	Monthly <sup>Note 2</sup>	Standard Method
Chemical Oxygen Demand	Monthly <sup>Note 2</sup>	Standard Method
Suspended Solids	Monthly <sup>Note 2</sup>	Standard Method
Total Nitrogen (as N)	Monthly <sup>Note 2</sup>	Standard Method
Ammonia (as N)	Monthly <sup>Note 2</sup>	Standard Method
Total Phosphorus (as P)	Monthly <sup>Note 2</sup>	Standard Method
Orthophosphate (as P)	Monthly <sup>Note 2</sup>	Standard Method
Oils, fats & greases	Quarterly	Standard Method
Metals and Organic Compounds <sup>Note 3</sup>	As required	Standard Method
Visual Inspection	Twice weekly	Sample and examine for colour and odour

**Note 1:** Total effluent volume discharged over the 24-hour period in which the composite sample is collected shall be recorded.

**Note 2:** The monitoring location for the primary discharge shall be agreed in accordance with Condition 4.3. The licensee shall install a composite sampler at this location. All samples thereafter shall be collected on a 24-hour flow proportional composite sampling basis.

**Note 3:** Having identified the most relevant pollutants from screening (Condition 4.11), subsequent monitoring for these pollutants shall be carried out at a frequency agreed by the Agency.



**B.2 Monitoring of Secondary Waste Water Discharge**

There shall be no Secondary Waste Water Discharges.



**B.3 Interpretation of Discharge Monitoring Results**

No of samples taken in any one year <sup>Note 1</sup>	Maximum number of samples which may exceed ELV
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25

**Note 1:** Where the licensee has taken samples which exceed the number specified in this Schedule, the licensee shall submit to the Agency all results of analysis.

**B.4 Ambient Monitoring**

**Receiving Water Monitoring**

**Location:** aSW01u-MITC E180636 N114351  
aSW01d-MITC E177956 N112602

Parameter	Monitoring Frequency <sup>Note 1</sup>	Analysis Method/Technique
pH	Ten samples/year	pH electrode/meter
DO	Ten samples/year	DO probe
BOD	Ten samples/year	Standard Method
Temperature	Ten samples/year	Thermometer
Orthophosphate (as P)	Ten samples/year	Standard Method
Total Nitrogen (as N)	Ten samples/year	Standard Method
Ammonia	Ten samples/year	Standard Method
Metals and Organic Compounds <sup>Note 2</sup>	As required	Standard Method

**Note 1:** Ambient monitoring data is to be submitted to the Agency in accordance with Condition 4.18 of this licence.

**Note 2:** Having identified the most relevant pollutants from screening (Condition 4.11), subsequent monitoring for these pollutants shall be carried out at a frequency agreed by the Agency.



**As a minimum, the parameters required to be monitored by the Agency are those for which ELVs have been specified in the licence**

**Any further relevant information:**

The waste water in Mitchelstown is collected by both combined and separated sewage collection system prior to treatment at the WWTP. The waste water works is served by four pumping stations, three within the town and one at the WWTP. There are four storm water overflows in the agglomeration, which discharge to the River Gradoge. There are no secondary discharge points within the agglomeration.

The estimated population equivalent (p.e.) of the agglomeration is approximately 6,300 p.e., which consists of domestic, commercial and industrial waste waters. The population of Mitchelstown is 3,365 (2006 census). The commercial waste waters are made up of both small and large commercial units and the p.e. is estimated between 500-1000 p.e. The main industrial activity within the agglomeration is Dairygold Co-operative Society Limited (P0404-02) and the estimated p.e. of the Dairygold discharges is approximately 2,000. Dairygold has its own WWTP and discharges to the sewer. This discharge bypasses the Mitchelstown WWTP; however, it combines with the municipal WWTP discharge prior to discharge to the River Funshion.

Mitchelstown Waste Water Works

The WWTP was built in the 1950's and was refurbished in 1990's. Phosphorus removal equipment was installed at the plant in 2005. The design capacity of the WWTP is 6,000 p.e.

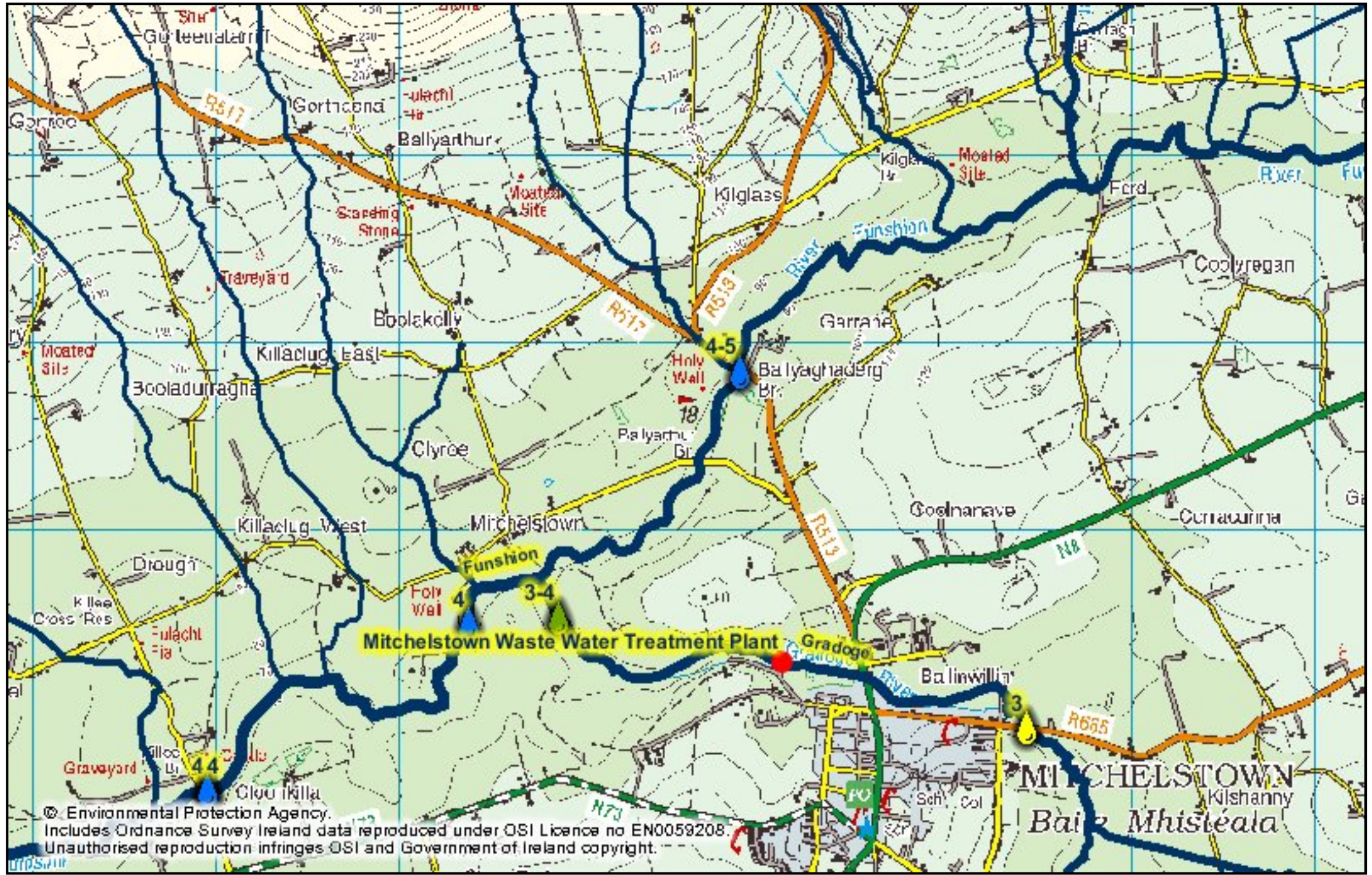
Influent arriving at the Mitchelstown WWTP undergoes primary and secondary treatment with phosphorus nutrient removal. The plant infrastructure consists of inlet works (which includes screening, grit removal and flow measurement), storm water holding tanks (two), primary settlement (three tanks) and secondary treatment (four rotating biological filters). Final clarification is achieved with humus tanks (settlement tanks that separates any remaining solids from the treated effluent). The WWTP does not accept waste waters containing leachate. Cork County Council Northern Division operates the WWTP. A plant manager is on duty from 8.00am to 5.00pm Monday to Friday.

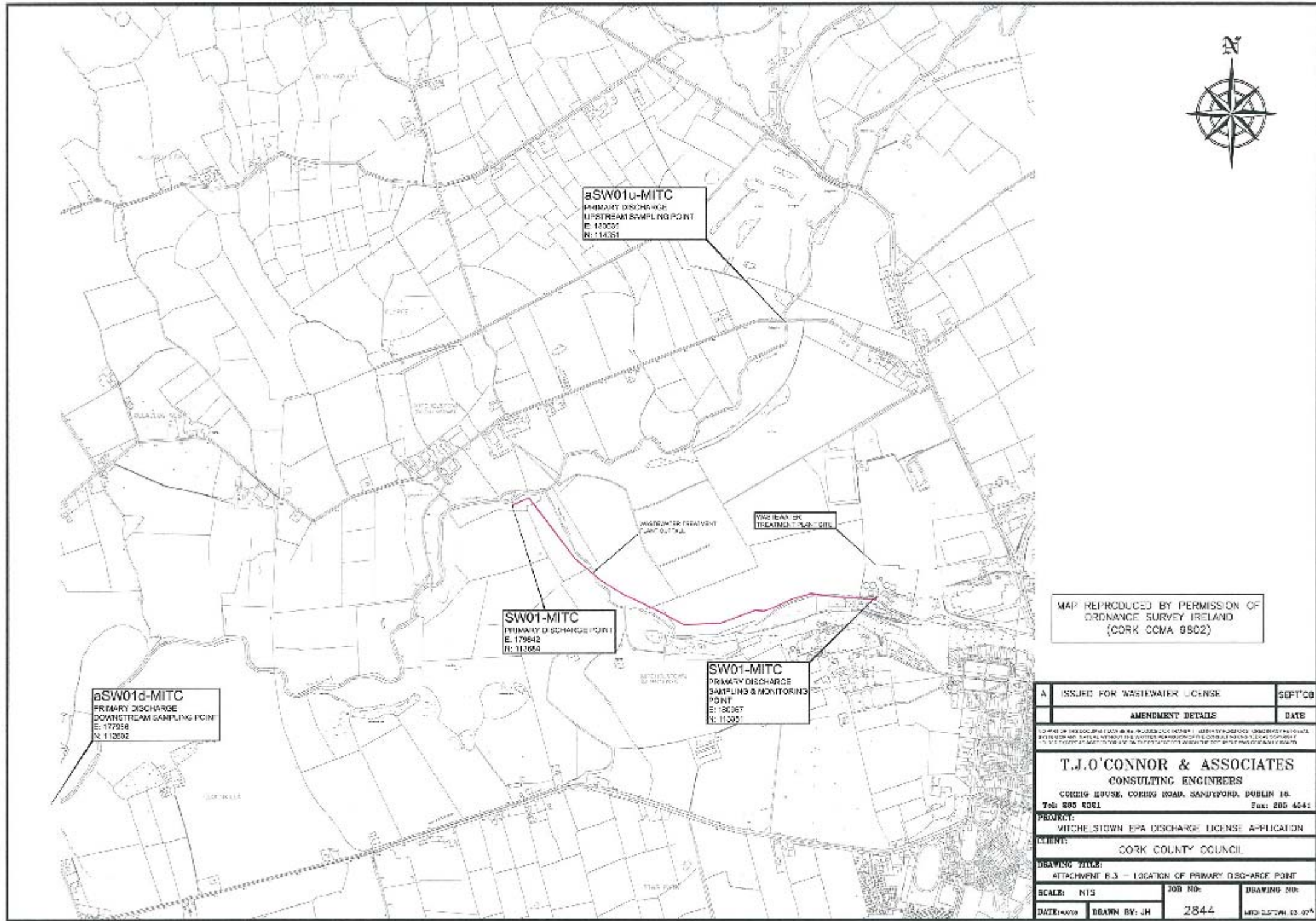
Mitchelstown was included in the Water Services Investment Program 2007-2009 (WSIP) for an upgrade of the sewage collection network. This scheme was not completed.

At present, there is no routine monitoring of the primary discharge from the agglomeration (comprising Mitchelstown WWTP and Dairygold treated effluents). The applicant has stated that there are no composite samplers or flow meters in place at the primary discharge point as it is an isolated location in excess of 1500 metres from both WWTPs. Condition 4.3 of the RL requires the installation of flow proportional sampling and monitoring equipment within 12 months of grant of licence for the primary discharge at a suitable location agreed with the Agency.

<b><u>Checklist</u></b>	
Licensing Inspector Name	Una O'Callaghan
Phone No	021 4875540
Date	05.08.10
List Drawings/Plans attached	DWG001A
Name of Regional Co-ordinator OEE	Brendan Wall
Copy of this letter sent to Senior Inspector Water Enforcement (OEE)	Yes
Copy of Waste Water Discharge Licence Attached	Yes







MAP REPRODUCED BY PERMISSION OF  
ORDNANCE SURVEY IRELAND  
(CORK CCMA 9502)

A	ISSUED FOR WASTEWATER LICENSE	SEPT'08
AMENDMENT DETAILS		DATE
<p><b>T.J.O'CONNOR &amp; ASSOCIATES</b> CONSULTING ENGINEERS CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18. Tel: 895 8381 Fax: 805 4641</p>		
<p>PROJECT: MITCHELSOWN EPA DISCHARGE LICENSE APPLICATION</p>		
<p>CLIENT: CORK COUNTY COUNCIL</p>		
<p>DRAWING TITLE: ATTACHMENT B.3 - LOCATION OF PRIMARY DISCHARGE POINT</p>		
SCALE: N15	JOB NO: 2844	DRAWING NO:
DATE: 08/08	DRAWN BY: JH	WTD: 25/08/08 03:00