

Comhairle Contae Chorcaí Cork County Council

Environmental Licensing Programme,
Office of Climate, Licensing & Resource Use,
Environmental Protection Agency,
Headquarters, P.O. Box 3000,
Johnstown Castle Estate,
Co. Wexford.

Annabella,
Mala,
Co. Chorcaí.
Fón: (022) 21123 • Faics: (022) 21983
Suíomh Gréasáin: www.corkcoco.ie
Annabella,
Mallow,
Co. Cork.
Tel: (022) 21123 • Fax: (022)21983
Web: www.corkcoco.ie



For Attention of: Ms Suzanne Wylde

10th May, 2013

**Re: Licensing Action - Reg 18(3)(b) Notice Sent - 3 for Millstreet
Licence (D0332-01)**

A Chara,

I refer to correspondence issued on 11/04/2013 in relation to the above. The following addresses the queries which were raised.

REGULATION 16 COMPLIANCE REQUIREMENTS

Question 1: *Clarify the design population equivalent (p.e.) of the WWTP, the current p.e. of the plant, the projected p.e. to be contributed to the wastewater works, bearing in mind planning permission that has been granted for development but the development has not been completed to date, and provide the percentage p.e. to be contributed by non-domestic activities.*

Response: The design population equivalent of the existing WWTP is 1,600. The Preliminary Report for Millstreet Waste Water Treatment Plant Upgrade entailed a flow survey which identified that a dry weather flow of 1,073.24cu.m/day of wastewater is currently (2006) generated in the agglomeration, and this contains an associated BOD load of 119.66kg/day corresponding to a load of 1,994p.e. The majority of the current BOD loading to the treatment plant is from the domestic sector (66%) while the commercial, industrial and institutional sectors contribute 12%, 12% and 10% respectively of the plant loading.

The design horizon year for the upgrading and extension of the wastewater treatment plant in Millstreet is 2,025. The future wastewater load for collection and treatment is predicted to reach a dry weather flow of approximately 1,033.69cu.m/day with an associated BOD load of approximately 246kg/day corresponding to 4,101p.e. By the ultimate design year, the contribution from the domestic sector is expected to correspond to 75% of the total BOD load, with the commercial, industrial and educational sectors contributing 10%, 9% and 5.6% respectively.

Question 2: *Provide the effluent monitoring results for BOD, COD, suspended solids, orthophosphate and ammonia from the primary discharge for 2012.*



Response: The effluent from Millstreet WWTP was sampled on eight occasions in 2012 in accordance with the requirements of the Urban Waste Water Regulations. The parameters analysed were BOD, COD and SS. There are no effluent monitoring results available for orthophosphate and ammonia. The available effluent monitoring results are outlined in the table below.

Sampling Date	B.O.D. mg/l	C.O.D. mg/l	S.S. mg/l
04/04/12	3.1	25	4
12/06/12	3.5	<21	4
06/09/12	94	552	367
04/10/12	3.0	<21	3
24/10/12	6.4	31	11
14/11/12		<21	7
19/11/12	502	24	7
06/12/12	3.8	23	7
<i>Average</i>	87.97	81.88	51.25

Question 3: *Provide ambient monitoring results upstream and downstream of the primary discharge for 2012.*

Response: No ambient monitoring was undertaken upstream or downstream of the primary discharge in 2012.

Question 4: *Confirm there are no overflows from the Drishane, Drominahilla and Tanyard Wood pumping stations.*

Response: There are no overflows from the Drishane and Drominahilla pumping stations. The Tanyard Wood Pumping Station is not under the control of Cork County Council. As far as Cork County Council is aware, there is no overflow from the Tanyard Wood pumping station.

Question 5: *Clarify the instances in which the overflows from the Killarney Road and Mount Leader pump stations occur (e.g. heavy rainfall, power failure, etc). Note that emergency overflows include overflow mechanisms constructed as part of pump sump infrastructure, whereby a power failure, essential maintenance or other similar interruption in normal operations results in a discharge of untreated waste water from the sump as a consequence of the pumps being disabled - discharges resulting from insufficient hydraulic capacity within the system are not regarded as emergency discharges.*

Response: Overflows from the Killarney Road and Mount Leader pump stations may occur as a result of power failure, pump failure, failure of the rising main etc.

Question 6: *Provide further information on when overflows occur from the stormwater overflows located at the entrance gate to the WWTP along Station Road (SW- 02 MILL and SW-03 MILL) and the stormwater overflow from the 2 nr manholes 95m and 60m away from the junction of Coologane St and Station Road (SW-06 MILL) (e.g. heavy rainfall, etc).*

Response: At present untreated wastewater from the southern and western portions of the town gravitates via a 450mm diameter sewer to the entrance of the treatment plant site where it connects to a storm water overflow chamber

with a 225mm diameter sewer to the wastewater treatment plant. Due to the restriction in flow to the treatment works, overflows occur from the stormwater overflows located at the entrance gate to the WWTP along Station Road (SW- 02 MILL and SW-03 MILL) and the stormwater overflow from the 2 nr manholes 95m and 60m away from the junction of Coologane St and Station Road (SW-06 MILL) at times when there are large flows. This may be as a result of heavy rainfall due to the combined nature of the sewer network or may be as a result of a number of pumping stations operating simultaneously.

Question 7: *Provide details of any plans to discontinue the stormwater overflows listed in the licence application.*

Response: There are no plans to discontinue the storm overflows listed in the licence application at the present time. Instead it is proposed to construct a new overflow chamber at the entrance gate to the treatment plant in conjunction with the plant upgrade which will be designed to accommodate a flow of 113.36cu.m/hr and will be fitted a storm overflow screen designed to retain the screenings within the flow. The inlet to the overflow chamber will be the same as at present i.e. 450mm dia but a new 300mm dia outlet sewer will be laid to the preliminary treatment stage of the treatment plant which will allow increased flows to the treatment works thereby reducing the frequency of storm overflows.

It is estimated that 54% of the existing flow arriving at the treatment plant is attributable to infiltration. As part of the upgrade works, it is proposed to undertake rehabilitation and replacement works to the existing sewer network to reduce infiltration level to approximately 20%. This will result in a significant reduction in flows which in turn will significantly reduce the levels of use of existing stormwater overflows.

Question 8: *Provide details on the programme of improvements for the agglomeration. The details should include a timeframe for completion of the improvement works and a proposed date for the commissioning of the new WWTP.*

Response: Millstreet Sewerage Scheme is listed on the current Water Services Investment Programme (WSIP) 2010 – 2012 under the heading “Schemes at Planning Stages 2010 – 2012. To date, a Preliminary Report was completed in April 2011 and has been submitted to the Department of Environment, Heritage and Local Government (DOEHLG) for approval. The advancing of Millstreet Sewerage Scheme under the WSIP is subject to approval from the DOEHLG and having the necessary funding in place and as such it is not possible to give an indication of the timeframe for completion of the improvement works.

Question 9: *Provide details of the proposed new WWTP, to include the type of treatment proposed, the standards to which the new WWTP will treat the effluent and the population equivalent for which the WWTP will cater.*

Response: The Preliminary Report concludes that the optimum means of procuring the wastewater treatment facilities would be by the use of a Design Build contract. Therefore the type of treatment would be at the discretion of the successful tenderer subject to a design p.e. of 4,101 and achieving the following treatment standards:

- 5mg/l BOD
- 5mg/l suspended solids
- 1mg/l total ammonia (as N)
- 10mg/l nitrate (as N)
- 0.5mg/l phosphate (as P)

Question 10: *Clarify if it is intended to relocate the primary discharge as part of the proposed new WWTP. Provide the grid reference for the proposed new discharge point and the receiving water for the new discharge point.*

Response: It is proposed to relocate the primary discharge as part of the Millstreet Waste Water Treatment Plant Upgrade to the River Finnow, downstream of the confluence with the Tanyard Stream. The approximate grid reference of the proposed outfall is:

Easting: 127998 Northing: 092205

Question 11: *Clarify if an application for planning permission for the new WWTP has been submitted to An Bord Pleanala.*

Response: The proposed construction at the Millstreet Waste Water Treatment Plant is covered under Article 80 of the Planning Regulations. Therefore Part 8 Planning will be required for the construction work at the waste water treatment plant. This process has not yet commenced but it is envisaged that it will be undertaken in the next stage when approval is received from the DEHLG to proceed with the preparation of contract documents in relation to the proposed works. It is noted that a certificate of completion of planning must be submitted to the DEHLG when submitting the scheme's contract documents for approval.

Question 12: *If yes, was an Environmental Impact Statement (EIS) submitted as part of this planning application?*

Response: Not applicable at this stage

Question 13: *Where approval has been received from An Bord Pleanala, please submit a copy of the approval and a copy of any EIS submitted as part of the planning application.*

Response: Not applicable at this stage

Question 14: *Where approval has not yet been received from An Bord Pleanala in respect of an application, what is the expected date for receipt of approval?*

Response: Not applicable at this stage

Question 15: *Provide a copy of any screening or Natura Impact Statement prepared for the proposed upgrade works.*

Response: An Appropriate Assessment on the impacts of the proposed upgrading of Millstreet Waste Water Treatment Plant on Conservation Objectives of the Blackwater River (Cork/Waterford) SAC (Site Code 002170) has been undertaken by Southern Scientific Services in relation to the proposed upgrade works and a copy of same is attached.

In addition, a survey of a section of the Finnow River (Munster Blackwater System) and a section of its tributary, the Tanyard Stream for the Freshwater Pearl Mussel *Margaritifera margaritifera* was undertaken by Dr. Eugene Ross, Freshwater Bivalve Investigations Ltd. on behalf of Southern Scientific Services Ltd. in relation to the proposed Millstreet Waste Water Treatment Plant Upgrade. A copy of this report is also attached.

Question 16: *Provide a copy of the draft Ecology Report referred to in Attachment F of the application form under Table 2. 'Comparison of Receiving Waters and Outfall Locations'.*

Response: A Terrestrial & Aquatic Ecology Report dated 9th January 2009 was prepared by Southern Scientific Services in relation to the proposed upgrade works and a copy of same is attached.

No revisions to the non-technical summary or drawings which were previously submitted are deemed necessary consequent to this request.

Is mise le meas,



Billy O' Sullivan.
S/Senior Executive Engineer,
Waste Water Pumping & Treatment Zone 4
WATER SERVICES DIRECTORATE

Direct Tel: 022-30409
Email: billy.osullivan@corkcoco.ie

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