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22<sup>nd</sup> July 2015

IW-ER-LT0275

Dear Máire Buckley,

**Re: Ballyvourney / Ballymakeery Waste Water Discharge Licence (D0299-01)**

In response to the Regulation 18(3)(b)-1 request for further information notice dated the 30<sup>th</sup> March 2015, please see below relevant information.

***Provide a revised drawing clearly detailing the boundary of the agglomeration to which this application relates. Please note that the agglomeration boundary shall include all areas serviced by the sewer network and shall include the waste water treatment plant. All areas of the agglomeration shall be within the agglomeration boundary.***

Please find enclosed a revised drawing showing the extent of the agglomeration boundary.

***Provide details of the programme of improvements for the agglomeration. The details should include a timeframe for completion of the improvement works.***

The improvement works for the agglomeration are currently still at the preliminary design stage. There is currently no programme for completion. It is anticipated that the Detailed Design for the agglomeration will commence in the latter half of 2015.

**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.**

The design of the WwTP is at Preliminary Stage, with the Detailed Design Stage to commence in the latter half of 2015. At this stage, the proposed Wastewater Treatment Plant will be constructed on a Greenfield site on the South side of the River Sullane, to the South-East of Ballymakeera Bridge in the townland of Shanacloon.

The plant shall be designed to treat wastewater from Ballymakeera and Ballyvourney to a population equivalent of 1,800 and will have sufficient space available to permit possible expansion in the future.

The level of treatment proposed is preliminary and secondary treatment in order to meet the Urban Wastewater Treatment Directive standards of 25:125:35 (BOD:COD:Suspended Solids). Influent to the wastewater treatment plant will be pumped, from the upgraded pumping station at the old Dairygold Creamery site, to a preliminary treatment where it will be screened. Flow will then be directed to secondary treatment which will enable BOD and suspended solids removal. Treated effluent will flow through an outfall pipeline and will then be discharged to the Sullane River.

Flows in excess of the designed DWF i.e. storm conditions will be stored on site and will receive full treatment when storm conditions abate. At this (pre-detailed design) stage, the location of the stormwater overflow is not available, however it is likely to be at or near the primary discharge point.

Sludge from the treatment process will be stored in a sludge storage/thickening tank. Sludge shall be dewatered on site and transported to the closest hub centre. It will be removed from the site in sealed sludge tankers. Flow monitoring and sampling will be provided at both the inlet and outlet of the treatment plant.

**Confirm if the primary discharge point will be relocated. Provide the grid reference for the proposed new discharge point, the new primary discharge monitoring point, and the receiving water for the new discharge point. Revise tables B.3 and D1(i)(a) of the application as necessary.**

More than likely the primary discharge point will be re-located, but as Detailed Design of the improvement works is yet to commence, the exact co-ordinates of the proposed discharge point are unknown at this stage. However it will be within the vicinity of the existing discharge point (within 100m upstream/downstream of the existing point) and this change is not likely to

impinge on the basis for the original Appropriate Assessment. Irish Water will confirm the exact coordinates to the EPA as soon as they are verified.

Please find attached a revised non-technical summary for the agglomeration.

Best Regards,

A handwritten signature in black ink, appearing to read 'Gerry Galvin', with a wavy line extending to the right.

**Gerry Galvin**

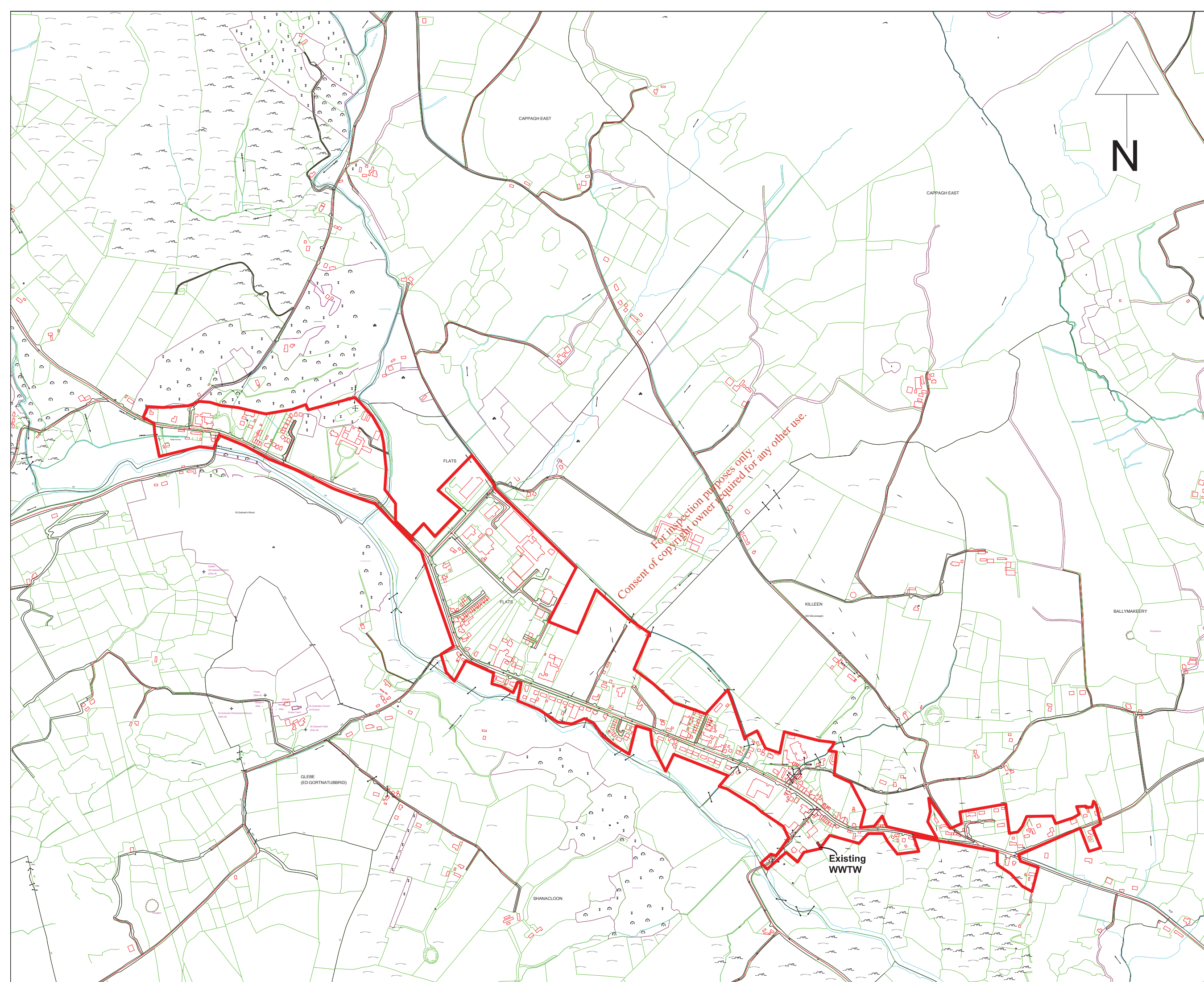
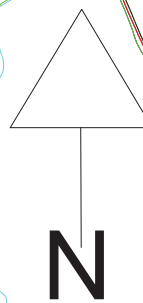
**Chief Technical Advisor**

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NOTES

1. This drawing is for demonstration purposes only and may not be to scale. Take figured dimensions.

— Agglomeration Boundary



SKETCH

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TITLE  
BALLYVOUNREY / BALLYMAKEERA  
AGGLOMERATION BOUNDARY

CLIENT IRISH WATER (UISCE ÉIREANN)  
PO Box 6000  
Dublin 1  
Ireland

NICHOLAS O'DWYER LTD. SCALE  
1:10000 @ A3

SKETCH No. DATE  
20571-SK-BVBMK-01 23.06.2015

## Revised Non-Technical Summary – July 2015

Ballyvourney and Ballymakeera are two contiguous settlements located approximately 15 kilometres northwest of Macroom on the main N22 Cork to Killarney Road and are the largest settlements located within the Muskerry Gaeltacht region.

### The Waste Water Works and the Activities Carried Out Therein

Until the sewer upgrade in 2007 the sewer network served only the eastern part of the combined area and discharged to a septic tank which has an outfall that discharges to the River Sullane. The existing sewers had inadequate capacity and some of the older pipelines had been laid at a relatively flat fall and so could not achieve self cleansing velocities.

In 2007 the sewer network was upgraded, new foul lines were laid and the original foul sewer now operates as a storm water system. The wastewater from the west of the village gravitates to the septic tank. The wastewater from the east of the village gravitates to a pump station and is then pumped to the septic tank via a rising main.

Ballyvourney / Ballymakeera septic tank was built at a time when the p.e. contributing to it was far less than the present p.e. The current p.e. contributing to the septic tank is approximately 1,409. In 2007 a separate storm system was installed to discharge storm water directly to the River Sullane. This reduced the hydraulic load entering the septic tank. The passage of sewage through a septic tank helps in the removal of suspended solids but there is very little biological activity and the removal of BOD is not significant.

Currently, influent flows entering the inlet works of the plant range from 50m<sup>3</sup> to 225m<sup>3</sup> per day with an average inflow of 138m<sup>3</sup> entering the plant per day. The final effluent is discharged to the River Sullane.

A new waste water treatment plant to cater for a p.e. of 1,800 is planned for Ballymakeera. At the time the initial application was submitted in February 2009, the proposals for Ballymakeera WWTP were to proceed to construction in 2011. These plans have not progressed. The improvement works for the agglomeration are due to enter the detailed design stage during the latter half of 2015.

The proposed Wastewater Treatment Plant will be constructed on a Greenfield site on the South side of the River Sullane, to the south-east of Ballymakeera Bridge in the townland of Shanacloon.

The plant shall be designed to treat wastewater from Ballymakeera and Ballyvourney to a population equivalent of 1,800 and will have sufficient space available to permit possible expansion in the future. The maximum predicted flow from the new waste water treatment plant is 405m<sup>3</sup>/d. It is likely that the design of the plant will be modular in order to ensure that the treatment plant is not under-loaded if the future development is not realised. The proposed plant is to be designed to comply with the Urban Waste Water Treatment Directive standards with preliminary and secondary treatment.

Influent to the WwTP plant will be pumped, from the upgraded pumping station at the old Dairygold Creamery site, to a preliminary treatment where it will be screened. Flow will then be directed to secondary treatment which will enable BOD and suspended solids removal. Treated effluent will flow through an outfall pipeline and will then be discharged to the Sullane River. Excess flows in storm conditions will be stored on site and will receive full treatment when storm conditions abate. Sludge from the treatment process will be stored in a sludge storage/thickening tank. Sludge shall be dewatered on site and transported to the closest hub centre. It will be removed from the site in sealed sludge tankers.