

SOLUTIONS LTD

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Meath County Council, Buvinda House, Dublin Road Navan, County Meath C15 Y291

Meath Co. Co. Reference: 21-424

RE: *"The development consists of the construction of an extension to an existing wastewater treatment plant (WWTP) where the works include:*

a) Demolition of an existing storage building (17.50m2) and construction of a new single-storey industrial type building to enclose the DAF unit granted planning permission under planning reference LB180300 and to provide new enclosed storage and control rooms (total floor area 119m2).

b) Install a new sludge press at intake to WWTP, change aeration tank to anoxic tank, install 2 no. additional aeration tanks, alteration to perimeter berm to increase the footprint of WWTP, by 539m2 to that granted planning permission under planning permission LB180300.

c) Treated wastewater rising main from the site of the proposed development to new discharge point at the River Boyne (distance 7.2km), where pipeline shall be laid along a section of Windmill Road, the L1013, Yellow Furze Road, the L1600 (Boyne Road), and the unnamed local road leading from the L1600 to the private lands abutting the River Boyne at the discharge point."

Subject: Response to Submission by Third Parties

Dear Sir/Madam

Panther Environmental Solutions Ltd, acting as consultants for Dawn Meats Ireland (Slane), would like to submit the following response to submissions made by Third Parties.

Submissions made by prescribed bodies and third parties under the current planning application (Planning Ref: 21424) have been considered as part of the project design brief.

This revised application for planning permission to Meath County Council for the construction of alterations to an existing approved effluent plant development (Planning Ref: LB180300) would include:

- a) Demolition of an existing storage building (17.50 m²) and construction of a new single-storey industrial type building to enclose the DAF unit granted planning permission under planning reference LB180300 and to provide new enclosed office/laboratory and control room (total floor area 127 m²).
- b) Alterations to location, sizing and heights of approved treatment tanks, install a new sludge press at intake to WWTP, relocate and replace the current drum screen, install 1no additional aeration tank, replace approved clarifier and sand filter tanks with membrane bioreactor (MBR) tank and UV filter, and alteration to perimeter berm to increase the approved development area by 323m² to that granted planning permission under planning reference LB180300.
- c) Treated wastewater rising main from the site of the proposed development to a new discharge point at the River Boyne (distance 7.2km), where pipeline shall be laid along a section of Windmill Road, the L1013, Yellow Furze Road, the L1600 (Boyne Rd), and the unnamed local road leading from the L1600 to the private lands abutting the River Boyne at the discharge point.

...at Painestown, Seneschalstown, Dollardstown, Hayestown-Carryduff Little & Ardmulchan, Navan, Co Meath.

The accompanying drawings include detailed designs for the full proposed rising main route. ETP compound drawings include alterations from the approved and originally proposed layout and specifications.

The proposed modifications would not alter the proposed maximum discharge rate of 400 m^3 /day. The proposed resized balancing tank would allow a higher operating volume and allow greater balancing of incoming effluent loads. The increased anoxic tank capacity would allow higher retention times, thereby ensuring high nitrogen removal rates are achieved. The increased aeration tank capacity would also allow for increased retention times providing a more robust system for the treatment of influent.

While the proposed MBR unit would achieve higher COD and suspended solids removal from the approved design, the MBR would also allow for increased operating mixed liquor suspended solids (MLSS) (measure of micro-organisms which treat effluent) concentrations within the plant increasing the ease of maintaining of treatment efficiencies in cold weather conditions.

In order to improve proposed treatment standards for the protection of fisheries, drinking water abstraction and recreational use of the River Boyne, the proposed development also includes a

new MBR and UV filter which will achieve effective removal rates of micro-organisms and viruses.

The proposed effluent treatment process would achieve a final effluent of sufficient quality to discharge to the River Boyne in compliance with relevant guidance. Design criteria for the effluent treatment plant and rising main took into account the sensitivity of the receiving environment of the River Boyne as a Special Area of Conservation (SAC) habitat for sensitive flora and fauna, recreational resource and public amenity.

Further surveys and assessments have also been included within the submitted reporting in order to address the concerns raised.

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If you have any queries regarding the above, please do not hesitate to get in contact,

Yours faithfully

Merlin C

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