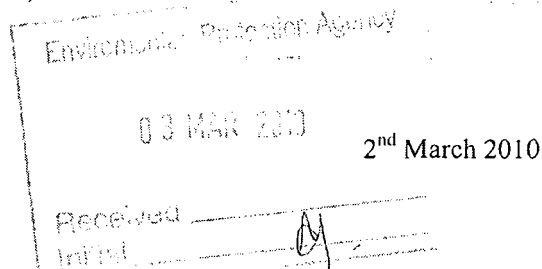


Shirley House
Rutland Street
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Tel: 021 41321521
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Ms. Aisling Ryan,
Office of Environmental Enforcement,
West/North West Region,
Environmental Protection Agency,
John Moore Road,
Castlebar,
Co. Mayo



RE: Proposed Sanitary & Waste Water Connection to Sligo Waste Water Treatment Plant – Greenstar Ltd – Sligo Depot - Waste Licence Register No.W0058-01

Dear Ms. Ryan,

As discussed, Greenstar Ltd has submitted an application to Sligo County Council (Council) for approval to connect sanitary and wastewater discharges from its facility to the municipal foul sewer, ultimately for treatment in the new Sligo Waste Water Treatment Plant (WWTP). The facility discharges sanitary wastes from the facility's toilets and canteen to the sewer as well as waste water from wash downs of the facility transfer building floor.

Under Section 52 of the Waste Management Acts 1996 to 2008, the Agency is obliged to obtain the consent of the Sanitary Authority where it is proposed to discharge effluent from a Waste Licensed facility to a sewer vested in a Sanitary Authority. To aid in this process a description of the proposed discharge and proposed Emission Limit Values (ELVs) are presented below.

The proposed ELVs are presented in Table 1 and are based on the quality of the effluent that will be generated and limits typically approved by other Sanitary Authorities in consultation with the Agency, as required by Section 52 of the Act.

Cont'd

email: info@callaghanmoran.com Website: www.callaghanmoran.com

O'Callaghan Moran & Associates. Registration No. 8272844U

Table 1 Proposed ELVs

Parameter	Units	Proposed ELVs
pH	pH Units	6 – 10
Temperature	°C	42
BOD	mg/l	3,000
COD	mg/l	6,000
Sulphate	mg/l	1,000
Ammoniacal Nitrogen	mg/l	100
Total Suspended Solids	mg/l	1,250
Surfactants	mg/l	100
Oils, Fats & Greases	mg/l	100
Mineral Oils	mg/l	10

Washdowns are often not required but, for the purposes of this assessment, it has been assumed that one washdown will be carried out weekly. The only area that is actually washed is where mixed waste is handled (ca 500 m²) and it is estimated that approximately 1 m³ of wash water is generated in each washdown.

In addition to this approximately 3.3 m³ per day of sanitary waste water will be discharged to the sewer. This is calculated on the basis that there are 22 employees at the facility (150 litres per employee per day in accordance with the code of practice Wastewater Treatment and Disposal Systems Serving Single Houses (Agency 2009)).

Monitoring

The environmental monitoring programme is carried out in accordance with the conditions and schedules specified in Waste Licence (Reg. No.W0058-01) which are outlined on Table 2. It is proposed to carry out the monitoring quarterly for the first twelve months following connection and then, depending on the results, reduce this to bi-annual. Due to the low volume and intermittent nature of the flow it is not considered possible to install a flow meter on the foul sewer however water entering the facility is metered and it can be assumed that all of this will be discharged to the foul sewer. Details on the location and characteristics of the discharge are shown on Tables 3 and 4.

Cont'd

Table 2 Waste Licence Monitoring Requirements

Parameter	Foul water
	Sampling Frequency
pH	Quarterly
BOD	Quarterly
COD	Quarterly
Mineral Oil	Quarterly
Oil Fats and Greases	Quarterly
Detergents (MBAS)	Quarterly
Chloride	Quarterly
Ammoniacal Nitrogen	Quarterly
Total Suspended Solids	Quarterly
Coliforms	Annually

TABLE 3 PROPOSED EMISSIONS TO SEWER

Emission Point Ref. N ^o :	SE-1
Location of connection to sewer :	On Deep Water Berths Road close to the facility entrance
Grid Ref. (10 digit, 5E,5N):	568156, 836985
Name of sewage undertaker:	Sligo Borough Council

Emission Details:

(i) Volume to be emitted			
Normal/day	3.5m ³	Maximum/day	4.5m ³
Maximum rate/hour	1m ³		

Cont'd

TABLE 4: EMISSIONS TO SEWER - Characteristics of the emission

Emission point reference number: SE-1

Parameter	Prior to treatment			As discharged			% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	
			kg/year			kg/year	
BOD	3,000	3,000	<u>10.5</u>				
COD	6,000	6,000	<u>21</u>				
Sulphate	1,000	1,000	<u>3.5</u>				
Ammoniacal Nitrogen	100	100	<u>0.35</u>				
Total Suspended Solids	1,250	1,250	<u>4.375</u>				
Surfactants	100	100	<u>0.35</u>				
Oils, Fats & Greases	100	100	<u>0.35</u>				
Mineral Oils	10	10	<u>0.035</u>				

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Should you have any questions, please call me.

Yours sincerely,

Michael Watson
Michael Watson

0904803/MW/JOC/MS

Encl
C.C.

Ms Suzanne Byrne, Greenstar Ltd,
Mr. David Stapleton, Greenstar Ltd - Sligo Depot