



Environmental Protection Agency  
*An Ghníomhaireacht um Chaomhnú Comhshaoil*

Director of Services Environment  
Sligo County Council  
County Hall  
Riverside  
Sligo

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13 September 2011

Reg No: W0058-01

Dear Director

I am to advise you that the Agency has received an application for a technical amendment to waste licence register number W0058-01 from Greenstar Ltd for a facility located at Deepwater Quay, Sligo.

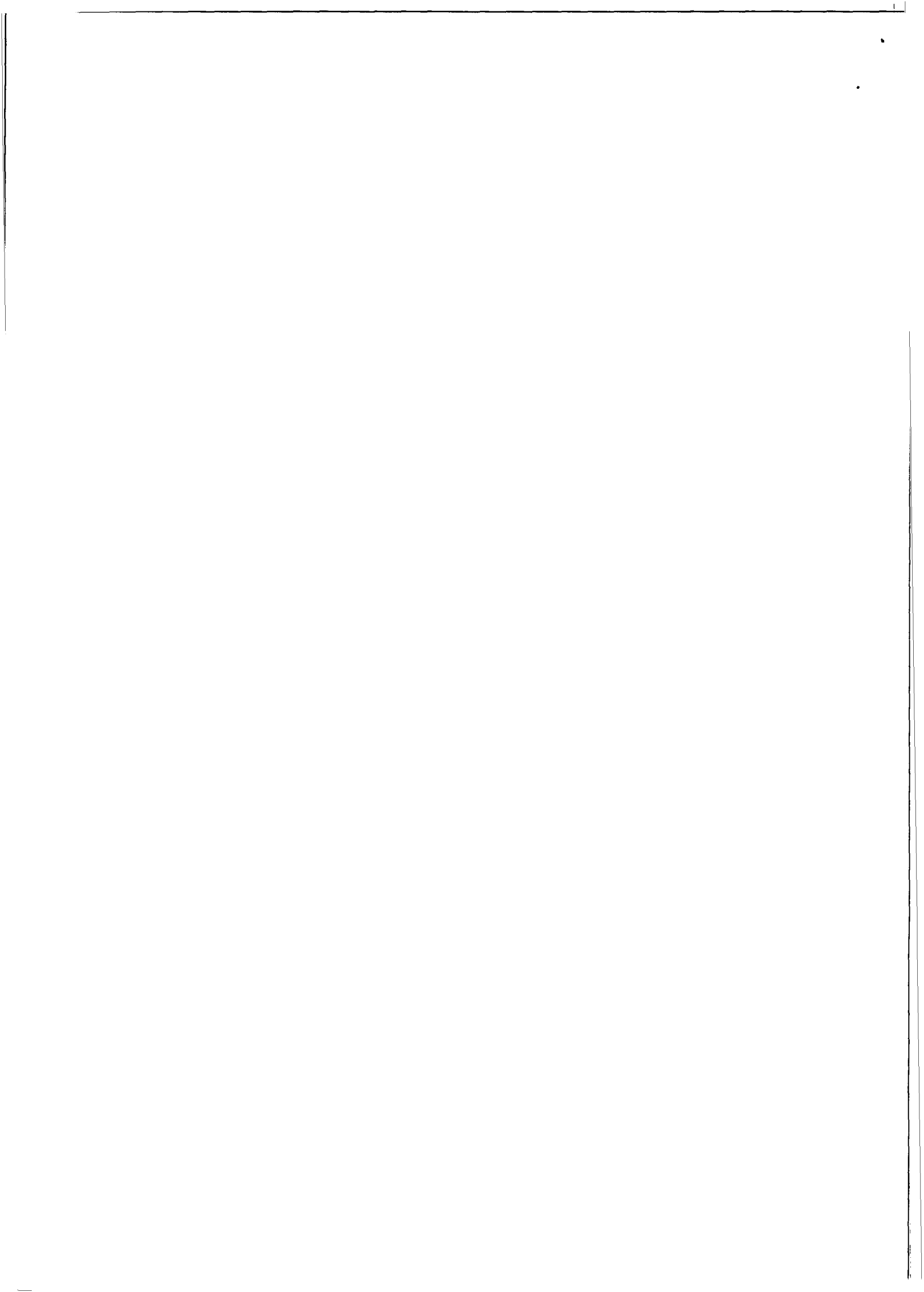
The applicant proposes to provide in the licence for the discharge of process effluent to a sewer which the applicant has stated is vested in or controlled by your Council. Process effluent includes trade effluent or other matter (other than domestic sewage or storm water). I enclose copy extracts from the application, which detail proposed discharges.

The provisions of Section 52 of the Waste Management Acts, 1996 to 2011, provides that the Agency shall obtain the consent of the sanitary authority to the proposed discharge from an activity which involves the discharge of trade effluent or other matter (other than domestic sewage or storm water), to a sewer vested in or controlled by a sanitary authority.

In order to expedite the Agency's consideration of this waste licence application, I am to request your authority's consent to the proposed discharge. It should be noted that your authority's consent may be subject to such conditions as your authority considers appropriate as provided for in Section 52 of the Waste Management Acts, 1996 to 2011, and Section 99E(3) of the Environmental Protection Agency Acts, 1992 and 2007. Your attention is drawn to paragraphs (3) and (4) of the attached copy of the relevant section of the Act. For your convenience please find attached a reply form including a list of draft conditions compiled by the Agency.

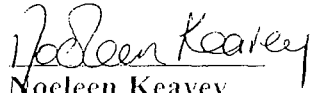
In accordance with paragraph (2) of this section of the Act, you are requested to forward your response within 5 weeks of the date of this letter. Please note that any decision given after the expiry period shall be invalid and in those circumstances the Agency may proceed to determine the application concerned as if consent was obtained. Brian Meaney is dealing with this matter and can be contacted at EPA HQ in Wexford (tel. 053 9160600) if you have any queries.





Your co-operation in this matter is appreciated.

Yours sincerely,

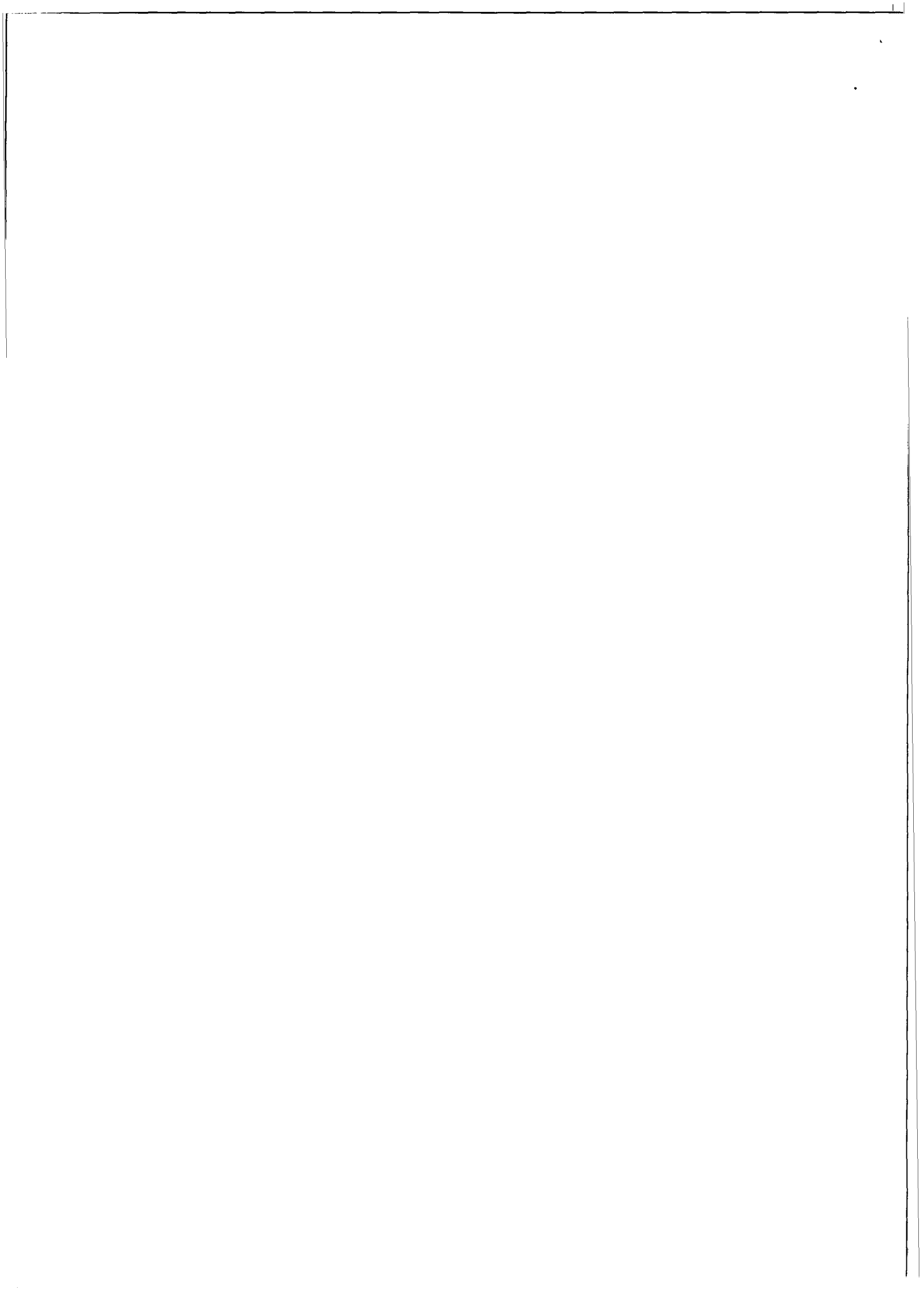
A handwritten signature in cursive script that reads "Noeleen Keavey".

Noeleen Keavey

Programme Officer

Licensing Unit

Office of Climate, Licensing & Resource Use



**SANITARY AUTHORITY RESPONSE**  
**re: SECTION 52 OF THE WASTE MANAGEMENT ACTS, 1996 to 2011**

Name & Address of Sanitary Authority: Sligo County Council, Riverside, Sligo, , .

Waste Reg. No. W0058-01

Waste Facility: Deepwater Quay, Sligo, , ,

Waste Licence Applicant: Greenstar Limited

Consent: Indicate Yes to one of the following statements:

Consent granted subject to the consent conditions outlined below	
Consent granted without conditions	
Consent refused <sup>Note 1</sup>	

Note 1 Where it is proposed to refuse permission the reasons for the refusal should be clearly outlined in the response.

GENERAL CONSENT CONDITIONS	Condition to be included (Yes/No)
1. No specified emission from the installation shall exceed the emission limit value set out in <i>Schedule B: Emissions Limits to Sewer</i> . There shall be no other emission to sewer of environmental significance.	
2. The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as out in <i>Schedule C</i> .	
3. Monitoring and analytical equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge or emission.	
4. The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the process effluent, and to take samples of the process effluent.	
5. All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.	
6. The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.	
7. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.	
8. The licensee shall at no time discharge or permit to be discharged into the sewer any liquid matter or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.	
9. In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Agency, Local Authority and Sanitary Authority as soon as practicable after the incident.	

**Section 99E (3) & (4) of the Environmental Protection Agency Acts, 1992 and 2007**

- (3) Subject to subsection (4), a consent under subsection (1) may be granted subject to or without conditions and if it is granted subject to conditions the Agency shall include in the licence or revised licence concerned conditions corresponding to them or, as the Agency may think appropriate, conditions more strict than them.
- (4) The conditions that may be attached to a consent by a sanitary authority under this section are the following and no other conditions, namely conditions-
- (a) relating to-
    - (i) the nature, composition, temperature, volume, level, rate, and location of the discharge concerned and the period during which the discharge may, or may not, be made,
    - (ii) the provision, operation, maintenance and supervision of meters, gauges, manholes, inspection chambers and other apparatus and other means for monitoring the nature, extent and effect of emissions.
    - (iii) the taking and analysis of samples, the keeping of records and furnishing of information to the sanitary authority,
  - (b) providing for the payment by the licensee to the sanitary authority concerned of such amount or amounts as may be determined by the sanitary authority having regard to the expenditure incurred or to be incurred by it in monitoring, treating and disposing of discharges of trade effluent, sewage effluent and other matter to sewers in its functional area or a specified part of its functional area,
  - (c) specifying a date not later than which any conditions attached under this section shall be complied with,
  - (d) relating to, providing for or specifying such other matter as may be prescribed.







## Frequency of Monitoring Process Effluent to Sewer

### Schedule C

Waste Licence application Register No. W0058-01

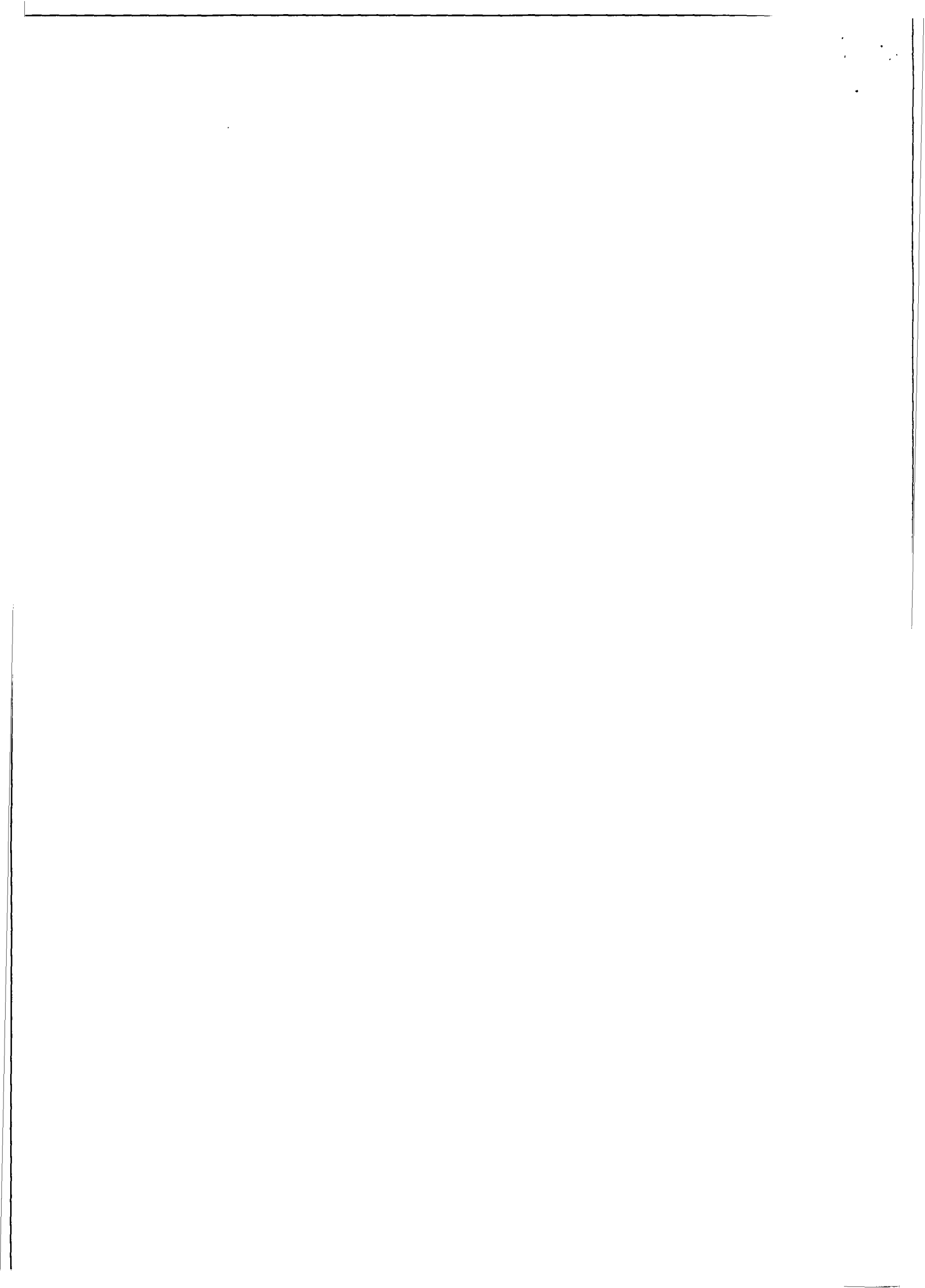
Emission Point Reference No: \_\_\_\_\_

Parameter <i>(delete parameters which are not applicable)</i>	Monitoring Frequency <i>(e.g. monthly, quarterly, annually)</i>	Sampling Type <i>(grab, composite)</i>
Flow to sewer		
Temperature		
pH		
BOD		
COD		
Suspended Solids		
<b>ADDITIONAL PARAMETERS</b> <i>(if required)</i>		

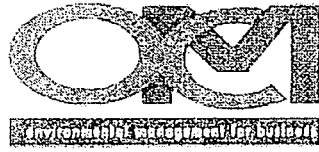
SANITARY AUTHORITY CHARGES	
Charge per cubic metre of process effluent (per s52 of the Waste Management Acts, 1996 to 2011)	
Payment Frequency	
Annual Monitoring Costs	

Signed on behalf of Sligo County Council

\_\_\_\_\_ Date \_\_\_\_\_



W0058-01



Ms. Aisling Ryan,  
Office of Environmental Enforcement,  
West/North West Region,  
Environmental Protection Agency,  
John Moore Road,  
Castlebar,  
Co. Mayo

2<sup>nd</sup> March 2010

M

**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

Environmental Protection Agency, Office of Environmental Enforcement, West/North West Region, Environmental Protection Agency, John Moore Road, Castlebar, Co. Mayo

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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 m<sup>2</sup>) and it is estimated that approximately 1 m<sup>3</sup> of wash water is generated in each washdown.

In addition to this approximately 3.3 m<sup>3</sup> 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 <sup>o</sup> :	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 <sup>3</sup>	Maximum/day	4.5m <sup>3</sup>
Maximum rate/hour	1m <sup>3</sup>		

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	
BOD	3,000	3,000	10.5				
COD	6,000	6,000	21				
Sulphate	1,000	1,000	3.5				
Ammoniacal Nitrogen	100	100	0.35				
Total Suspended Solids	1,250	1,250	4.375				
Surfactants	100	100	0.35				
Oils, Fats & Greases	100	100	0.35				
Mineral Oils	10	10	0.035				

Should you have any questions, please call me.

Yours sincerely,

  
Michael Watson

0904803/MW/JOC/MMS

Encl  
C.C.

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

COMHAIRLE CHONTAE SHLIGIGH  
SLIGO COUNTY COUNCIL



COUNTY HALL  
RIVERSIDE, SLIGO  
[www.sligooco.ie](http://www.sligooco.ie)

Environment Section  
Sligo County Council  
Unit 9 Cleveragh Business  
Park  
Sligo  
County Sligo  
15/4/2010

Michael Watson  
O' Callaghan Moran & Associates  
Granary House  
Rutland Street  
Cork

Re: Connection to municipal foul sewer - Greenstar Ltd, Deepwater Quay, Sligo  
WL Reg. No W0058-01

Dear Sir,

Further to correspondence received regarding the proposed emission limit values relating to the discharge from the Greenstar Limited premises at Deepwater Quay, Sligo, Sligo County Council has no objection to the emission limit values proposed.

However, we request that if the Waste Licence is being amended by the EPA, provision is made in the conditions for the submission of results of monitoring of discharges to sewer to the Environment Section of Sligo County Council.

The Water Services Section has requested a drawing of the proposed drainage system and connection point to the local authority sewer which is to include all proposed and existing sewer levels, and this should be submitted at the earliest opportunity. The sewer connection application, drainage and financial issues relating to the connection will be dealt with by the Water Services Section of Sligo County Council. Please address all queries to Conor McCann (Executive Engineer, Water Services Section, Sligo County Council).

Trusting this is to your satisfaction.



COMHAIRLE CHONTAE SHLIGIGH  
SLIGO COUNTY COUNCIL



COUNTY HALL  
RIVERSIDE, SLIGO  
[www.sligococo.ie](http://www.sligococo.ie)

Yours Sincerely,

*Enda Killoran*

Enda Killoran  
A/Assistant Scientist  
Environment Section  
Sligo County Council

CC: Malcolm Dowling Greenstar Ltd, Deepwater Quay, Sligo  
Aisling Ryan, Environmental Protection Agency, Regional Inspectorate,  
Castlebar, County Mayo

Aisling Copy of letter sent to O.C.M regarding this issue

