

# EPA Application Form

## 7.1.2 – Emissions Compliance Report

**Organisation Name: \***

Starrus Eco Holdings Limited

**Application I.D.: \***

LA010880

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## 1. Introduction

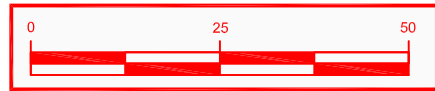
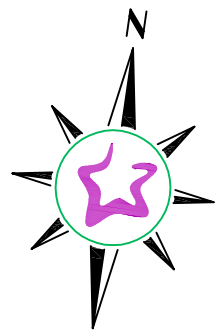
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This attachment summarises the most recent emissions monitoring undertaken at the Millennium Business Park Waste and discusses the emissions compliance with relevant emissions limit values set out the Licence.

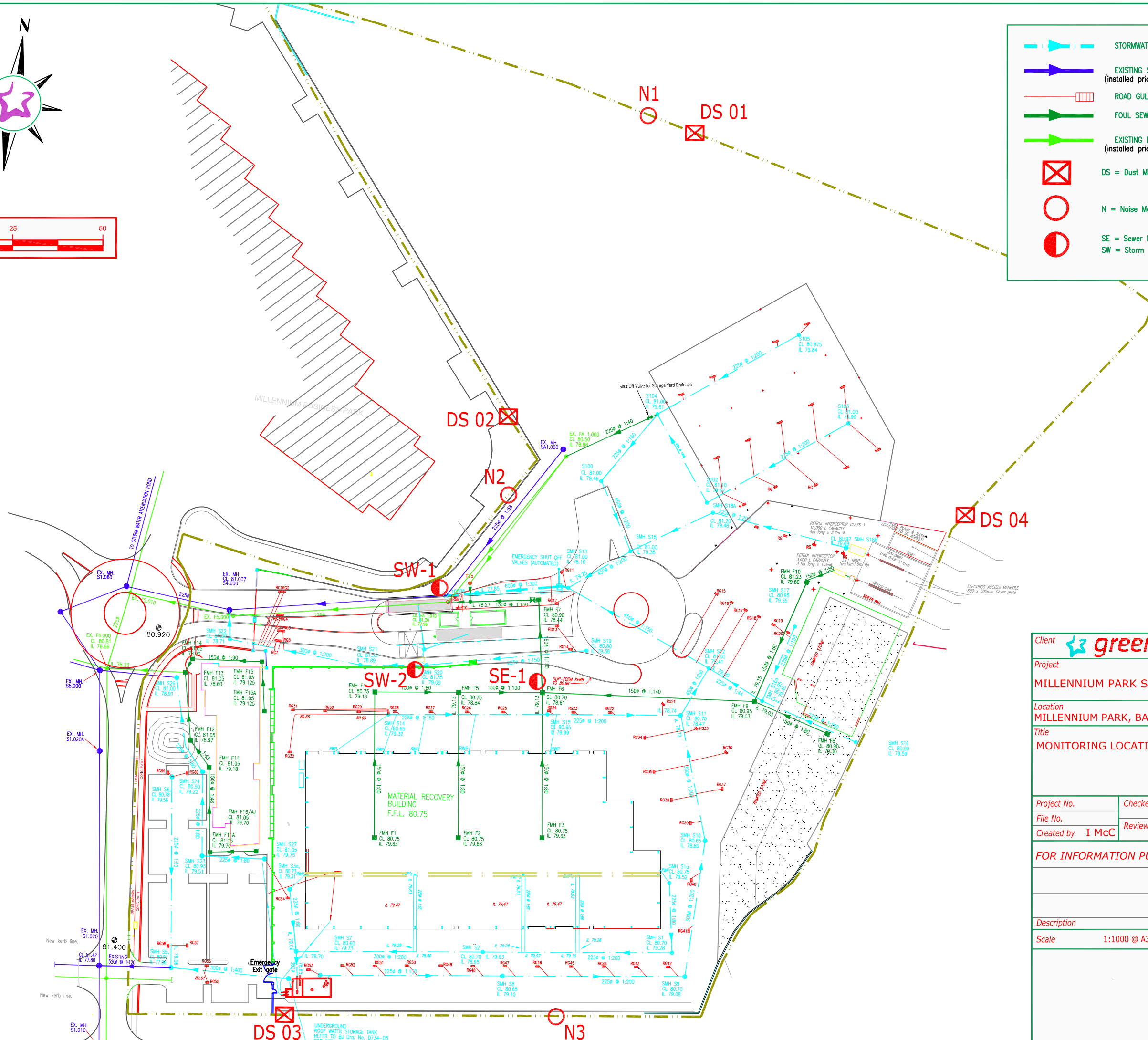
The licence requires monitoring of surface water and foul water emissions, noise emissions, and dust deposition. The monitoring locations are shown on Drawing No 001 and the co-ordinates are in Table 1.1.

**Table 1.1 Monitoring Point Locations**

<b>Monitoring Point</b>	<b>Easting</b>	<b>Northing</b>
<b>DS01</b>	310467	241131
<b>DS02</b>	310390	241090
<b>DS03</b>	310351	240912
<b>DS04</b>	310520	241075
<b>SE-1</b>	310413	241013
<b>SW-1</b>	310378	241032
<b>SW-2</b>	310374	241009
<b>N1</b>	310421	241168
<b>N2</b>	310394	241057
<b>N3</b>	310428	240923



	STORMWATER DRAINAGE
	EXISTING STORMWATER DRAINAGE (installed prior to facility construction)
	ROAD GULLIES AND CONNECTIONS
	FOUL SEWER DRAINAGE
	EXISTING FOUL SEWER DRAINAGE (installed prior to facility construction)
	DS = Dust Monitoring Point
	N = Noise Monitoring Point
	SE = Sewer Monitoring Point
	SW = Storm Water Monitoring Point



Client **greenstar**

Project  
**MILLENNIUM PARK SERVICES AS-BUILT**

Location  
**MILLENNIUM PARK, BALLYCOOLIN, DUBLIN 11**

Title  
**MONITORING LOCATIONS**

Project No.	Checked by	Drawing No.
File No.	Reviewed by	<b>001</b>
Created by I MCC		
<b>FOR INFORMATION PURPOSES</b>		23/06/14
		A
Description	Date	Version
Scale 1:1000 @ A3	Date	June 2015

CL OF OVERHEAD ESB CABLES

ESB Pylon

UNDERGROUND ROOF WATER STORAGE TANK REFER TO BU Drg. No. D734-05 FOR DETAILS

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## 2. Noise

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The EPA licence requires SEHL to carry out an annual noise survey to assess the impacts associated with its operations. The EPA licence specifies noise limits that must be complied with, which are 55 dB at noise sensitive locations (NSL) during daytime hours (07.00 to 19.00), 50 dBA during evening hours (19.00 to 23.00) and 45 dB during night time hours (23.00 to 07.00).

The monitoring is conducted by Damian Brosnan Acoustics (dBA) and the most recent monitoring event was undertaken in July 2022. The results which are summarised in Table 2.1

As is expected, given their proximity, noise emissions from SEHL operations are predominant at the on-site monitoring locations. Noise from operations at the off-site noise sensitive location is inaudible and compliant with the emission limits set in the EPA licence. The dominant source of noise in the locality is road traffic. SEHL has not received any complaints regarding noise emissions from its activities.

**Table 2.1 Noise Monitoring July 2022**

<b>Station</b>	<b>N1</b>	<b>N1</b>	<b>N2</b>	<b>N2</b>	<b>N3</b>	<b>N3</b>	<b>NSL1</b>	<b>NSL1</b>
<b>Period</b>	Day	Night	Day	Night	Day	Night	Day	Night
<b>Ambient L<sub>Aeq T</sub> (dB)</b>	59	48	64	54	68	51	71	61
<b>Facility audible</b>	✓	✓	✓	✓	✓	✓	X	X
<b>Facility specific L<sub>Aeq T</sub> (dB)</b>	<59	<48	62	49	<66	49	<61	<48
<b>Limit (dB)</b>	-	-	-	-	-	-	55	45
<b>Compliance</b>	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Yes

SEHL noise emissions were inaudible at the offsite station NSL1 during the daytime and night-time surveys, the soundscape was dominated by road traffic.

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### 3 Air

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#### 3.1 Dust

Dust deposition monitoring is carried out at four locations (DS-01, DS-02, DS-03 and DS-04) at four locations at the site boundary on three times annually. The licence specifies a deposition limit of 350mg/m<sup>2</sup>/day.

The results of the monitoring completed in 2022 and to date in 2023 are in Table 3.1. All the results were below the deposition limit

**Table 3.1 Dust Deposition Limits**

Location	Feb 2022 mg/m <sup>2</sup> /day	May 2022 mg/m <sup>2</sup> /day	Aug 2022 mg/m <sup>2</sup> /day	Feb 2023 mg/m <sup>2</sup> /day	Deposition Limit mg/m <sup>2</sup> /day
DS 01	101	100	33	25	350
DS 02	222	45	35	59	350
DS 03	53	34	34	53	350
DS 04	98	87	34	137	350

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#### **4. Storm Water Monitoring**

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There is one storm water discharge from the installation. Rainwater run-off from the building roofs, car parks and areas of the yard that were not a risk of contamination used to discharge to the municipal storm water sewer, but this has temporarily been diverted to the foul sewer pending the resolution of drainage issues in the storm sewer system serving the Business Park. Therefore monitoring of the storm water discharge has been temporarily suspended.

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## 5. Foul Water Monitoring

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There is one foul water discharge from the installation. Rainwater run-off from areas of open yard that are susceptible to contamination is discharged to the foul sewer via a silt trap and oil interceptor. Rainwater run-off from the building roofs, car parks and areas of the yard that were not a risk of contamination used to discharge to the municipal storm water sewer, but this has temporarily been diverted to the foul sewer.

A sample is taken quarterly and analysed in accordance with Schedule D of the Licence. Emission limits for the discharge are set out in Schedule C of the Licence and are shown here on Table 4.1.

**Table 4.1 Foul Sewer Discharge Limits**

Parameter	Emission Limit Value		
	Grab Sample (mg/l)	Daily Mean Concentration (mg/l)	Daily Mean Loading (kg/day)
BOD	6,000	5,000	50
COD	12,000	10,000	100
Ammoniacal Nitrogen	100	70	0.7
Suspended solids	2,500	2,000	20
Sulphate as (SO <sub>4</sub> )	1,000	1,000	10
PH	6-10	6-10	-
Temperature	42°C	42°C	-
Detergents	100	100	1.0
Fats, Oils & Greases	100	100	1.0
Phosphates (as P)	100	100	1.0

The results of the monitoring completed in 2022 and to date in 2023 are in Table 4.2. All results are fully compliant with the emission limits set in the current Licence.



**Table 4.2 Foul Sewer Results 2022 and 2023**

<b>Parameter</b>	<b>Limit</b>	<b>24/02/2022</b>	<b>28/04/2022</b>	<b>02/06/2022</b>	<b>14/08/22</b>	<b>06/10/2022</b>	<b>08/12/2022</b>	<b>16/02/2023</b>	<b>06/04/2023</b>
<b>BOD</b>	<b>6000</b>	176	246	95	30	78	98	65	60
<b>COD</b>	<b>12000</b>	530	1331	247	218	880	779	1078	2355
<b>Ammoniacal Nitrogen (as N)</b>	<b>100</b>	6.45	6.27	13.2	0.06	1.4	0.62	0.67	3.85
<b>Sulphate</b>	<b>1000</b>	137	82	303	66	132	94	59	60
<b>pH</b>	<b>6-10</b>	7.18	7.85	7.38	7.51	7.46	7.15	7.19	7.04
<b>Detergents</b>	<b>100</b>	0.525	1.621	1.028	0.22	0.149	0.429	0.123	0.344
<b>Fats, Oils &amp; Greases</b>	<b>100</b>	33	22	16	3	3	30	23	33
<b>Phosphates</b>	<b>100</b>	0.7	1.66	0.89	0.46	1.95	1.13	1.78	3.58
<b>Suspended Solids</b>	<b>2500</b>							758	2103