



Greyhound

Annual Environmental Report; year reporting 2018

EPA Licence: W0205-01, Crag Avenue, Clondalkin Industrial Estate, Dublin 22, D22 E718

GREYHOUND RECYCLING & RECOVERY
JANUARY 2019

Facility Information Summary

AER Reporting Year	2018
Licence Register Number	W0205-01
Name of site	Greyhound Recycling and Recovery
Site Location	Crag Avenue Industrial Estate, Clondalkin, Dublin 22
NACE Code	3832
Class/Classes of Activity	3.11, 3.12, 3.13, 4.2, 4.3, 4.4, 4.8, 4.11, 4.12, 4.13
National Grid Reference (6E, 6 N)	53°19, 48.3"N 6° 23' 23.4 W

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

The main activities that take place on site are: the sorting, separating, processing and bulking of incoming waste materials, to divert waste from landfill, for the production of Refuse Derived Fuel, and Solid Refuse Fuel. The main processes carried out on site are described as follows:

1. Tipped in MRB2, Incoming materials are inspected upon reception by the Shovel Driver in the Waste Acceptance Area, prior to them being loaded onto the Intake Conveyor for processing.
2. Materials from the Intake Conveyor are fed into the M&J Shredder, and are shredded at variable speed. The capacity of the M&J Shredder is 100tonnes/hr. The shredded wastes from the outlet of the shredder have maximum size of 400mm and are conveyed to a Trommel for size screening.
3. Isolation of ferrous metal from oversized residues, is completed by Magnetic separation via two overband magnets.
4. The wastes are separated into undersized (≤200 mm) and oversized residues (≤400mm) by size exclusion.
5. Weight separation of the remaining Oversized residuals, achieved using an air-blower, leading to the segregation of light from heavy particles.
6. RDF is obtained from the heavy separates obtained after weight exclusion from the oversized residues.
7. During the first stage of Undersize processing, Ferrous metals are removed from the undersized residues by a magnet (magnet 2) and removed from the conveyor belt into the Ferrous metal bay.
8. The Second stage of Undersized processing involves sending the residues through a Trommel (Trommel 2) where the organic fines are extracted (<50mm).
9. The non-ferrous metals, e.g. aluminium, are then taking away by an eddy current separator and collected in the Non-ferrous bay.
10. Weight separation of the remaining undersized residuals, is achieved using an air-blower (Integra), leading to the segregation of light, used for Paper/Plastic recycling, from heavy particles, used for RDF production.
11. The light separates are sent to the Lidner Shredder, from the Trommel, via conveyor.
12. MDR, dross, matrix, C&D lights are mixed and shredded with the light residual fractions by the Lidner Shredder, and collected in WISH Bay 4.
13. The Shovel is used to mix the Matrix with the light separates, in a ratio of approximately 3:1, to produce high quality SRF.

W0205-01

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

	27 Mar 2019
Signature Group/Facility manager <small>(or nominated, suitably qualified and experienced deputy)</small>	Date

AIR-summary template	Lic No: W0205-01	Year: 2018
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Answer all questions and complete all tables where relevant

1	Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete solvent management plan (table A4 and A5) you do not need to complete the tables	Additional information	
		No	na

Periodic/Non-Continuous Monitoring

2	Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below	No	na
		3	Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air monitoring checklist AGN2

Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous)

Emission reference no:	Parameter/ Substance	Frequency of Monitoring	ELV in licence or any revision thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
D1	TA Luft inorganic dust particles class 1	24.01.18 - 23.02.18	350	100 % of values < ELV	154	mg/m2/day	yes	VDI 2119 Bergenhoff method	0.05621	4% decrease due to increased site cleaning details
D2	TA Luft inorganic dust particles class 1	24.01.18 - 23.02.18	350	100 % of values < ELV	236	mg/m2/day	yes	VDI 2119 Bergenhoff method	0.08614	3% decrease due to increase site cleaning
D1	TA Luft inorganic dust particles class 1	21.06.18 - 20.07.18	350	100 % of values < ELV	285	mg/m2/day	yes	VDI 2119 Bergenhoff method	0.104025	55% increase due to adverse weather
D2	TA Luft inorganic dust particles class 1	21.06.18 - 20.07.18	350	100 % of values < ELV	231	mg/m2/day	yes	VDI 2119 Bergenhoff method	0.084315	increase 4% due to adverse weather

Note 1: Volumetric flow shall be included as a reportable parameter

AIR-summary template		Lic No:	W0205-01	Year	2018
Continuous Monitoring					

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	No	NA
5	Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	NA
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	No	NA
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	NA

Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

note 1: Volumetric flow shall be included as a reportable parameter.

Table A3: Abatement system bypass reporting table

[Bypass protocol](#)

Date*	Duration** (hours)	Location	Reason for bypass	Impact magnitude	Corrective action
na	NA	na			
na	NA	na			
na		na			
na		na			
na		na			
na		na			
na		na			

* this should include all dates that an abatement system bypass occurred

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

AIR-summary template		Lic No: W0205-01		Year 2018				
Solvent use and management on site								
8 Do you have a total Emission Limit Value of direct and fugitive emissions on site? If yes please fill out tables A4 and A5				No	na			
Table A4: Solvent Management Plan Summary			Please refer to linked solvent regulations to complete table 5 and 6					
Total VOC Emission limit value			Solvent regulations					
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as % of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance			
na	na	na	na	na	na			
na	na	na	na	na	na			
Table A5: Solvent Mass Balance summary								
	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA
								Total

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Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

Yes	Licensed emissions to Sewer (Trade Effluent) emitted through TE1 sampling point. Monthly samples analysed by independent Laboratory.
Yes	Quarterly analysis of Storm Water is licence criteria. SW1 samples emitted through SW1 point, monthly samples were analysed to gather data for setting the trigger levels. No sample available in July due to drought.

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
SW1	onsite	NA	Conductivity	09.01.18	NA	NA	636	µS/cm @20°C	NA	NA
SW1	onsite	NA	pH	09.01.18	NA	NA	7.50	pH units	NA	NA
SW1	onsite	NA	COD	11.01.18	NA	NA	28	mg/L O2	NA	NA
SW1	onsite	NA	Fats, Oils and Greases	13.01.18	NA	NA	<1,000	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	10.01.18	NA	NA	4	mg/L	NA	NA
SW1	onsite	NA	Conductivity	07.02.18	NA	NA	168	µS/cm @20°C	NA	SW1 drain repairs carried out between 16th and 18th January
SW1	onsite	NA	pH	06.02.18	NA	NA	7.16	pH units	NA	SW1 drain repairs carried out between 16th and 18th January
SW1	onsite	NA	COD	07.02.18	NA	NA	18	mg/L O2	NA	SW1 drain repairs carried out between 16th and 18th January
SW1	onsite	NA	Fats, Oils and Greases	07.02.18	NA	NA	<1,000	mg/L	NA	SW1 drain repairs carried out between 16th and 18th January
SW1	onsite	NA	Suspended Solids	09.02.18	NA	NA	4	mg/L	NA	SW1 drain repairs carried out between 16th and 18th January
SW1	onsite	NA	Conductivity	13.03.18	NA	NA	1016	µS/cm @20°C	NA	Large quantities of salt were required during the month of March, in light of Snow blizzards
SW1	onsite	NA	pH	13.03.18	NA	NA	7.58	pH units	NA	Large quantities of salt were required during the month of March, in light of Snow blizzards
SW1	onsite	NA	COD	14.03.18	NA	NA	25	mg/L O2	NA	Large quantities of salt were required during the month of March, in light of Snow blizzards
SW1	onsite	NA	Fats, Oils and Greases	17.03.18	NA	NA	<1,000	mg/L	NA	Large quantities of salt were required during the month of March, in light of Snow blizzards
SW1	onsite	NA	Suspended Solids	15.03.18	NA	NA	6	mg/L	NA	Large quantities of salt were required during the month of March, in light of Snow blizzards
SW1	onsite	NA	Conductivity	16.04.18	NA	NA	844	µS/cm @20°C	NA	Greenday Environmental carried out cleaning of drains on 22nd March 2018
SW1	onsite	NA	pH	16.04.18	NA	NA	8.15	pH units	NA	Greenday Environmental carried out cleaning of drains on 22nd March 2018
SW1	onsite	NA	COD	17.04.18	NA	NA	111	mg/L O2	NA	Greenday Environmental carried out cleaning of drains on 22nd March 2018
SW1	onsite	NA	Fats, Oils and Greases	20.04.18	NA	NA	<1,000	mg/L	NA	Greenday Environmental carried out cleaning of drains on 22nd March 2018
SW1	onsite	NA	Suspended Solids	17.04.18	NA	NA	42	mg/L	NA	Greenday Environmental carried out cleaning of drains on 22nd March 2018
SW1	onsite	NA	Conductivity	29.05.18	NA	NA	1110	µS/cm @20°C	NA	NA
SW1	onsite	NA	pH	29.05.18	NA	NA	7.97	pH units	NA	NA
SW1	onsite	NA	COD	30.05.18	NA	NA	19	mg/L O2	NA	NA
SW1	onsite	NA	Fats, Oils and Greases	01.06.18	NA	NA	<1,000	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	30.05.18	NA	NA	38	mg/L	NA	NA

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AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)						Lic No:	W0205-01	Year	2018	
SW1	onsite	NA	Conductivity	14.06.18	NA	NA	287.5	µS/cm @20oC	NA	attempts to set trigger levels for Storm water were made in June 2018, however, more data is required to reduce the RSD% to an acceptable level of variance.
SW1	onsite	NA	pH	14.06.18	NA	NA	7.4	pH units	NA	attempts to set trigger levels for Storm water were made in June 2018, however, more data is required to reduce the RSD% to an acceptable level of variance.
SW1	onsite	NA	COD	15.06.18	NA	NA	73	mg/L O2	NA	attempts to set trigger levels for Storm water were made in June 2018, however, more data is required to reduce the RSD% to an acceptable level of variance.
SW1	onsite	NA	Fats, Oils and Greases	19.06.18	NA	NA	<1.000	mg/L	NA	attempts to set trigger levels for Storm water were made in June 2018, however, more data is required to reduce the RSD% to an acceptable level of variance.
SW1	onsite	NA	Suspended Solids	14.06.18	NA	NA	10	mg/L	NA	attempts to set trigger levels for Storm water were made in June 2018, however, more data is required to reduce the RSD% to an acceptable level of variance.
SW1	onsite	NA	Conductivity	16.08.18	NA	NA	876	µS/cm @20oC	NA	
SW1	onsite	NA	pH	16.08.18	NA	see comment	7.82	pH units	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	COD	17.08.18	NA	see comment	48	mg/L O2	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	Fats, Oils and Greases	21.08.18	NA	NA	<1.000	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	21.08.18	NA	NA	22	mg/L	NA	NA
SW1	onsite	NA	Conductivity	12.09.18	NA	NA	867	µS/cm @20oC	NA	NA
SW1	onsite	NA	pH	12.09.18	NA	see comment	7.92	pH units	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	COD	13.09.18	NA	see comment	25	mg/L O2	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	Fats, Oils and Greases	18.09.18	NA	NA	<1.000	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	13.09.18	NA	NA	<2	mg/L	NA	NA
SW1	onsite	NA	Conductivity	09.10.18	NA	NA	762	µS/cm @20oC	NA	NA
SW1	onsite	NA	pH	09.10.18	NA	see comment	7.88	pH units	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	COD	09.10.18	NA	see comment	25	mg/L O2	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	Fats, Oils and Greases	16.10.18	NA	NA	<1.000	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	10.10.18	NA	NA	9	mg/L	NA	NA
SW1	onsite	NA	Conductivity	07.11.18	NA	NA	288.6	µS/cm @20oC	NA	NA
SW1	onsite	NA	pH	07.11.18	NA	see comment	7.88	pH units	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	COD	09.11.18	NA	see comment	32	mg/L O2	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	Fats, Oils and Greases	17.11.18	NA	NA	<1.000	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	08.11.18	NA	NA	27	mg/L	NA	NA
SW1	onsite	NA	Conductivity	07.12.18	NA	NA	481	µS/cm @20oC	NA	NA
SW1	onsite	NA	pH	07.12.18	NA	see comment	7.54	pH units	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	COD	10.12.18	NA	see comment	18	mg/L O2	yes	Instruction given by Agency (R.I.009390). PH and COD trigger levels to be as per Table 1 of the 'EPA Guidance Document on setting trigger values for Storm Water'.
SW1	onsite	NA	Greases	12.12.18	NA	NA	9.176	mg/L	NA	NA
SW1	onsite	NA	Suspended Solids	11.12.18	NA	NA	4	mg/L	NA	NA

*trigger values may be agreed by the Agency outside of licence conditions

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Table W2 Visual inspections-Please only enter details where contamination was observed.

Location Reference	Date of inspection	Description of contamination	Source of contamination	Corrective action	Comments
NA	NA	No contamination observed	SELECT	NA	NA

Licensed Emissions to water and /or wastewater(sewer)-periodic monitoring (non-continuous)

3 Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below

No	Additional information
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4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

[External/Internal Lab Quality checklist](#) [Assessment of results checklist](#)

Yes	Analysis conducted by City Analysts Ltd.
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Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ Substance>Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof ^{Note 2}	License Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
TE1	Wastewater/Se wer	BOD	discrete	10.01.18	Monthly	2,000	All values < ELV	71	mg/LO2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	1.11399	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	COD	discrete	11.01.18	Monthly	8,000	All values < ELV	373	mg/LO2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	5.85237	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Conductivity	discrete	09.01.18	Monthly	NA	Not criteria	270.9	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	11.01.18	Monthly	100	All values < ELV	3.479	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.05458551	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	13.01.18	Monthly	200	All values < ELV	8.073	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	0.12666537	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Mineral oils	discrete	09.01.18	Monthly	10	All values < ELV	2.9	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.045501	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	09.01.18	Monthly	100	All values < ELV	1.39	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.0218091	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	pH	discrete	09.01.18	Monthly	6-10	All values < ELV	7.25	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
						Lic No:	W0205-01	Year		2018					
TE1	Wastewater/Se wer	Sulphate	discrete	09.01.18	Monthly	500	All values < ELV	42.845	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.67223805	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Suspended Solids	discrete	10.01.18	Monthly	2,000	All values < ELV	420	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	6.5898	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	BOD	discrete	07.02.18	Monthly	2,000	All values < ELV	178	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	2.79282	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	COD	discrete	07.02.18	Monthly	8,000	All values < ELV	512	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	8.03328	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Conductivity	discrete	06.02.18	Monthly	NA	Not criteria	215	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	08.02.18	Monthly	100	All values < ELV	2.513	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.03942897	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	07.02.18	Monthly	200	All values < ELV	<1	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	#VALUE!	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Mineral oils	discrete	06.02.18	Monthly	10	All values < ELV	3	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.04707	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	08.02.18	Monthly	100	All values < ELV	0.086	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.00134934	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	pH	discrete	06.02.18	Monthly	6-10	All values < ELV	7.26	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se wer	Sulphate	discrete	08.02.18	Monthly	500	All values < ELV	27.8	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.43729599	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Suspended Solids	discrete	07.02.18	Monthly	2,000	All values < ELV	880	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	8.6295	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	BOD	discrete	14.03.18	Monthly	2,000	All values < ELV	670	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	10.5123	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	COD	discrete	14.03.18	Monthly	8,000	All values < ELV	1260	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	19.7694	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Conductivity	discrete	13.03.18	Monthly	NA	Not criteria	936	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	15.03.18	Monthly	100	All values < ELV	11.786	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.18492234	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	17.03.18	Monthly	200	All values < ELV	10.977	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	0.17222913	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Mineral oils	discrete	13.03.18	Monthly	10	All values < ELV	3	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.04707	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	13.03.18	Monthly	100	All values < ELV	1.351	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.02119719	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	pH	discrete	13.03.18	Monthly	6-10	All values < ELV	6.82	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se wer	Sulphate	discrete	14.03.18	Monthly	500	All values < ELV	71.913	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	1.12831497	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)
TE1	Wastewater/Se wer	Suspended Solids	discrete	15.03.18	Monthly	2,000	All values < ELV	685	mg/L	Yes	INSTRUMENTAL METHODS	ISO	D/D1049	10.74765	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)

TE1	Wastewater/Se	BOD	16.04.18	Monthly	2,000	All values < ELV	169	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	2.55161
TE1	Wastewater/Se	COD	17.04.18	Monthly	8,000	All values < ELV	328	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	5.14632
TE1	Wastewater/Se	Conductivity	16.04.18	Monthly	NA	All values < ELV	430	µs/cm @20°C	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se	Detergents (as MBAS)	19.04.18	Monthly	100	All values < ELV	0.631	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	0.00990039
TE1	Wastewater/Se	Fats, Oils and Greases	20.04.18	Monthly	200	All values < ELV	1.431	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	0.02245239
TE1	Wastewater/Se	Mineral oils	16.04.18	Monthly	10	All values < ELV	7	mg/L	yes	INSTRUMENTAL METHODS	ISO	U	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	0.10983
TE1	Wastewater/Se	Ortho-phosphate (as P ₀₄)	20.04.18	Monthly	100	All values < ELV	0.265	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	0.00400095
TE1	Wastewater/Se	pH	16.04.18	Monthly	6-10	All values < ELV	7.56	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se	Sulphate	20.04.18	Monthly	500	All values < ELV	33.542	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	0.52627398
TE1	Wastewater/Se	Suspended Solids	17.04.18	Monthly	2,000	All values < ELV	590	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	flow (15,690L/Day) estimated from Irish Water Invoice (billing date 08.01.18 - 25.04.18)	9.2571
TE1	Wastewater/Se	BOD	30.05.18	Monthly	2,000	All values < ELV		mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	flow (15,447 L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	2.641437
TE1	Wastewater/Se	COD	30.05.18	Monthly	8,000	All values < ELV		mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	13.9023
TE1	Wastewater/Se	Conductivity	29.05.18	Monthly	NA	Not criteria	735	µs/cm @20°C	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se	Detergents (as MBAS)	01.06.18	Monthly	100	All values < ELV	2.031	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	0.031372857
TE1	Wastewater/Se	Fats, Oils and Greases	01.06.18	Monthly	200	All values < ELV	5.4	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	0.0834138
TE1	Wastewater/Se	Mineral oils	29.05.18	Monthly	10	All values < ELV	2.2	mg/L	yes	INSTRUMENTAL METHODS	ISO	U	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	0.0339834
TE1	Wastewater/Se	Ortho-phosphate (as P ₀₄)	30.05.18	Monthly	100	All values < ELV	0.499	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	0.007708053
TE1	Wastewater/Se	pH	29.05.18	Monthly	6-10	All values < ELV	7.65	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se	Sulphate	30.05.18	Monthly	500	All values < ELV	41.154	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	0.635705838
TE1	Wastewater/Se	Suspended Solids	30.05.18	Monthly	2,000	All values < ELV	520	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	8.03244
TE1	Wastewater/Se	BOD	14.06.18	Monthly	2,000	All values < ELV	191	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	2.950377
TE1	Wastewater/Se	COD	15.06.18	Monthly	8,000	All values < ELV	707	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	flow (15,447L/Day) estimated from Irish Water Invoice (billing date 26/04/18 - 10/07/18)	10.921029
TE1	Wastewater/Se	Conductivity	14.06.18	Monthly	NA	Not criteria	702	µs/cm @20°C	NA	Conductivity Meter (Electrode)	NA	O/D3011	NA	NA

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TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	19.06.18	Monthly	100	All values < ELV	0.459	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.007090173	flow (15,447L/Day) estimated from Irish Water invoice (billing period 26/04/18 - 10/07/18)	
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	19.06.18	Monthly	200	All values < ELV	17.75	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	0.27418425	flow (15,447L/Day) estimated from Irish Water invoice (billing period 26/04/18 - 10/07/18)	
TE1	Wastewater/Se wer	Mineral oils	discrete	14.06.18	Monthly	10	All values < ELV	10	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.15447	flow (15,447L/Day) estimated from Irish Water invoice (billing period 26/04/18 - 10/07/18)	
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	14.06.18	Monthly	100	All values < ELV	1.308	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.020204676	flow (15,447L/Day) estimated from Irish Water invoice (billing period 26/04/18 - 10/07/18)	
TE1	Wastewater/Se wer	pH	discrete	14.06.18	Monthly	6-10	All values < ELV	6.91	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA	
TE1	Wastewater/Se wer	Sulphate	discrete	14.06.18	Monthly	500	All values < ELV	58.854	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.909117738	flow (15,447L/Day) estimated from Irish Water invoice (billing period 26/04/18 - 10/07/18)	
TE1	Wastewater/Se wer	Suspended Solids	discrete	14.06.18	Monthly	2,000	All values < ELV	567	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	8.758449	flow (15,447L/Day) estimated from Irish Water invoice (billing period 26/04/18 - 10/07/18)	
	Wastewater/Se wer	BOD	discrete	16.07.18	Monthly	2,000	All values < ELV	83	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	1.282101	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	COD	discrete	17.07.18	Monthly	8,000	All values < ELV	221	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	3.413787	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	Conductivity	discrete	16.07.18	Monthly	NA	Not criteria	552	µS/cm @20oC	NA	Conductivity Meter (Electrode)	NA	D/D3011	NA	NA	
	Wastewater/Se wer	Detergents (as MBAS)	discrete	18.07.18	Monthly	100	All values < ELV	0.153	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.002363391	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	Fats, Oils and Greases	discrete	19.07.18	Monthly	200	All values < ELV	<1	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	#VALUE!	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	Mineral oils	discrete	16.07.18	Monthly	10	All values < ELV	3.6	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.0556092	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	17.07.18	Monthly	100	All values < ELV	2.096	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.032376912	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	pH	discrete	16.07.18	Monthly	6-10	All values < ELV	7.77	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA	
	Wastewater/Se wer	Sulphate	discrete	17.07.18	Monthly	500	All values < ELV	48.694	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.750631518	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
	Wastewater/Se wer	Suspended Solids	discrete	17.07.18	Monthly	2,000	All values < ELV	310	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	4.78857	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
TE1	Wastewater/Se wer	BOD	discrete	16.08.18	Monthly	2,000	All values < ELV	31	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	0.6913	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
TE1	Wastewater/Se wer	COD	discrete	17.08.18	Monthly	8,000	All values < ELV	188	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	4.1478	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
TE1	Wastewater/Se wer	Conductivity	discrete	16.08.18	Monthly	NA	Not criteria	385	µS/cm @20oC	NA	Conductivity Meter (Electrode)	NA	D/D3011	NA	NA	
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	16.08.18	Monthly	100	All values < ELV	0.126	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.0028098	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	21.08.18	Monthly	200	All values < ELV	<1	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	#VALUE!	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
TE1	Wastewater/Se wer	Mineral oils	discrete	16.08.18	Monthly	10	All values < ELV	1.8	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.04014	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	17.08.18	Monthly	100	All values < ELV	0.108	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.0024084	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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TE1	Wastewater/Se wer	pH	discrete	16.08.18	Monthly	6-10	All values < ELV	7.75	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se wer	Sulphate	discrete	17.08.18	Monthly	500	All values < ELV	42.553	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.9489319	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Suspended Solids	discrete	21.08.18	Monthly	2,000	All values < ELV	630	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	14.049	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	BOD	discrete	12.09.18	Monthly	2,000	All values < ELV	165	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	3.6795	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	COD	discrete	13.09.18	Monthly	8,000	All values < ELV	556	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	O/D1009	12.3988	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Conductivity	discrete	12.09.18	Monthly	NA	Not criteria	588	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	17.09.18	Monthly	100	All values < ELV	0.033	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.0007359	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	18.09.18	Monthly	200	All values < ELV	110.8	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	2.47084	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	13.09.18	Monthly	100	All values < ELV	1.151	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.0256673	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	pH	discrete	12.09.18	Monthly	6-10	All values < ELV	7.61	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se wer	Sulphate	discrete	13.09.18	Monthly	500	All values < ELV	41.491	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.9252493	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Suspended Solids	discrete	13.09.18	Monthly	2,000	All values < ELV	360	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	8.028	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	BOD	discrete	10.10.18	Monthly	2,000	All values < ELV	195	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	4.3485	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	COD	discrete	09.10.18	Monthly	8,000	All values < ELV	1021	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	22.7683	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Conductivity	discrete	09.10.18	Monthly	NA	Not Criteria	948	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	NA
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	11.10.18	Monthly	100	All values < ELV	0.053	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.0011819	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	16.10.18	Monthly	200	All values < ELV	25.086	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	0.5594178	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Mineral oils	discrete	09.10.18	Monthly	10	All values < ELV	2.8	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.06244	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	10.10.18	Monthly	100	All values < ELV	1.141	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.0254443	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	pH	discrete	09.10.18	Monthly	6-10	All values < ELV	7.42	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	NA	NA
TE1	Wastewater/Se wer	Sulphate	discrete	10.10.18	Monthly	500	All values < ELV	76.327	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	1.7020921	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	Suspended Solids	discrete	10.10.18	Monthly	2,000	All values < ELV	833	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	18.5759	flow (22,300L/day) estimated from Irish Water invoice - billing period 11.07.18 - 23.10.18)
TE1	Wastewater/Se wer	BOD	discrete	07.11.18	Monthly	2,000	All values < ELV	338	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	6.02056754	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)															
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TE1	Wastewater/Se wer	COD	discrete	08.11.18	Monthly	8,000	All values < ELV	510	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	9.0842883	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Conductivity	discrete	07.11.18	Monthly	NA	Not criteria	668	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	13.11.18	Monthly	100	All values < ELV	0.568	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.010117403	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	17.11.18	Monthly	200	All values < ELV	<1	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	#VALUE!	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Mineral oils	discrete	07.11.18	Monthly	10	All values < ELV	3.8	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.067686854	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	09.11.18	Monthly	100	All values < ELV	2.113	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.037637453	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	pH	discrete	07.11.18	Monthly	6-10	All values < ELV	8.67	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	0.154432901	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Sulphate	discrete	09.11.18	Monthly	500	All values < ELV	51.522	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.917726866	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Suspended Solids	discrete	08.11.18	Monthly	2,000	All values < ELV	537	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	9.56522121	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	BOD	discrete	10.12.18	Monthly	2,000	All values < ELV	251	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1003	4.47089483	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	COD	discrete	13.12.18	Monthly	8,000	All values < ELV	479	mg/L O2	yes	INSTRUMENTAL METHODS	ISO	D/D1009	8.53210607	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Conductivity	discrete	10.12.18	Monthly	NA	Not criteria	668	µS/cm @20oC	NA	INSTRUMENTAL METHODS	NA	D/D3011	NA	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Detergents (as MBAS)	discrete	12.12.18	Monthly	100	All values < ELV	0.568	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S	0.001424986	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Fats, Oils and Greases	discrete	12.12.18	Monthly	200	All values < ELV	12.686	mg/L	yes	INSTRUMENTAL METHODS	ISO	S/S3208	0.225967218	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Mineral oils	discrete	12.12.18	Monthly	10	All values < ELV	5.7	mg/L	yes	INSTRUMENTAL METHODS	ISO	*U	0.101530281	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Ortho-phosphate (as PO4)	discrete	10.12.18	Monthly	100	All values < ELV	3.196	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	0.056928207	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	pH	discrete	10.12.18	Monthly	6-10	All values < ELV	8.45	pH units	yes	INSTRUMENTAL METHODS	ISO	D/D1041	0.150514189	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Sulphate	discrete	10.12.18	Monthly	500	All values < ELV	72.373	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D3000	1.289131759	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day
TE1	Wastewater/Se wer	Suspended Solids	discrete	11.12.18	Monthly	2,000	All values < ELV	873	mg/L	yes	INSTRUMENTAL METHODS	ISO	D/D1049	15.55016409	qrt 4 invoice not available. Flow estimated from average over past 3 months. 17,812.33 L/day

Note 1:
Volumetric flow
shall be
included as a
reportable
parameter

Note 2: Where Emission Limit Values (ELV) do not apply to your licence please compare results against EQS for Surface water or relevant receptor quality standards

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0205-01 Year 2018

Continuous monitoring

5 Does your site carry out continuous emissions to water/sewer monitoring?

No	Additional Information
	NA

If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)

6 Did continuous monitoring equipment experience downtime? If yes please record downtime in table W4 below

No	Additional Information
	NA

7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site?

No	Additional Information
	NA

8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below

No	Additional Information
	NA

Emission reference no:	Emission released to	Parameter/ Substance	ELV or trigger values in licence or any revision thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission for current reporting year (kg)	% change +/- from previous reporting year	Monitoring Equipment downtime (hours)	Number of ELV exceedences in reporting year	Comments				
NA	SELECT	SELECT	NA	SELECT	SELECT	SELECT	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	SELECT	SELECT	NA	SELECT	SELECT	SELECT	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA			NA				NA	NA	NA	NA	NA	NA	NA	NA	NA

note 1:
Volumetric flow shall be included as a reportable parameter.

Date	Duration (hours)	Location	Resultant emissions	Reason for bypass	Corrective action*	Was a report submitted to the EPA?	When was this report submitted?
NA	NA	NA	NA	NA	NA	SELECT	NA
NA	NA	NA	NA	NA	NA		NA
NA	NA	NA	NA	NA	NA		NA

*Measures taken or proposed to reduce or limit bypass frequency

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			Comments
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	no	NA
2	Are you required to carry out soil monitoring as part of your licence requirements?	no	NA
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no	NA
4	Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template	NA	NA
5	Is the contamination related to operations at the facility (either current and/or historic)	N/A	NA
6	Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A	NA
7	Please specify the proposed time frame for the remediation strategy	N/A	NA
8	Is there a licence condition to carry out/update ELRA for the site?	N/A	NA
9	Has any type of risk assessment been carried out for the site?	NA	NA
10	Has a Conceptual Site Model been developed for the site?	no	NA
11	Have potential receptors been identified on and off site?	N/A	NA
12	Is there evidence that contamination is migrating offsite?	no	NA

Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTVs*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
NA	NA	NA	NA	NA	NA	NA	SELECT	NA	NA	SELECT
NA	NA	NA	NA	NA	NA	NA	SELECT	NA	NA	SELECT

+. where average indicates arithmetic mean

++. maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTVs*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
NA	NA	NA	NA	NA	NA	NA	SELECT	NA	NA	SELECT
NA	NA	NA	NA	NA	NA	NA	SELECT	NA	NA	SELECT

*please note exceedance of generic assessment criteria (GAC) such as a Groundwater Threshold Value (GTV) or an Interim Guideline Value (IGV) or an upward trend in results for a substance indicates that further interpretation of monitoring results is required. In addition to completing the above table, please complete the Groundwater Monitoring Guideline Template Report at the link provided and submit separately through ALDER as a licensee return or as otherwise instructed by the EPA.

[Groundwater monitoring template](#)

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)

[Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#)

** Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), if the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS)

[Surface water EQS](#) [Groundwater regulations GTVs](#) [Drinking water \(private supply\) standards](#) [Drinking water \(public supply\) standards](#) [Interim Guideline Values \(IGV\)](#)

Groundwater/Soil monitoring template Lic No: W020501 Year: 2018

Table 3: Soil results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit
NA	NA	NA	NA	NA	NA	NA	SELECT
NA	NA	NA	NA	NA	NA	NA	SELECT

Where additional detail is required please enter it here in 200 words or less

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Environmental Liabilities template	Lic No:	W0205-01	Year	2018
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[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

		Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA NA
2	ELRA review status	Review required and completed Next assessment due in October 2019
3	Amount of Financial Provision cover required as determined by the latest ELRA	€1,320,917 €264,183 detailed costings Contingency @20%
4	Financial Provision for ELRA status	Submitted and agreed by EPA NA
5	Financial Provision for ELRA - amount of cover	€1.65 million RMP and ELRA
6	Financial Provision for ELRA - type	SELECT AIB 'On performance Bond'
7	Financial provision for ELRA expiry date	01/10/2019 NA
8	Closure plan initial agreement status	NA
9	Closure plan review status	NA
10	Financial Provision for Closure status	NA
11	Financial Provision for Closure - amount of cover	€1.65 MILLION
12	Financial Provision for Closure - type	Bond
13	Financial provision for Closure expiry date	01/10/2019 NA

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Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0205-01 Year 2018

Highlighted cells contain dropdown menu click to view

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
1	Do you maintain an Environmental Management System (EMS) for the site. If yes, please detail in additional information	Yes	Designed around ISO 14001:2015 standards	Register of Environmental aspects is reviewed periodically, and management control systems associated with each aspects are reviewed, and improved where necessary. Corrective Actions are designed around risk-based think approaches, while all documentation is recorded as per GDP standards 18001).	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	Objectives and targets are scheduled annually, and monitored and reported during management reviews. KPI's based around environmental performance are monitored on a daily, weekly and monthly schedule, which is also used to evaluate the efficiency of the EMS.		
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	Information is available upon request.		
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes			

Environmental Management Programme (EMP) report

Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Reduction of emissions to Air	ensure dust monitoring and ambient air monitoring remain compliant with the Waste Licence ensure all effluent remains compliant with the emission limits set out in Schedule B	ongoing	Continuous monitoring of WSP to ensure compliance with the Storage Plan. Continuous monitoring of doors, weekly maintenance of dust filters, daily monitoring of Differential pressures to ensure extraction system is operating efficiently. Additional road sweeping details exercised during warmer weather to ensure dust is not allowed to build up.	EHS officer	Increased compliance with licence conditions, significant reduction in the volume of odour nuisance related complaints regarding facility activities
Reduction of emissions to Water	design a layout for production area, so a structured WSP can be designed and implemented, to avoid non-compliances	ongoing	regular servicing of the interceptor, restriction on REL washing onsite. Only environmentally friendly detergent and colour removal agents permitted to be used onsite. Regular cleaning on underground sewer piping.	Group responsibility	Improved Environmental Management Practices, no breach of ELV in 2018
Materials Handling/Storage/Bunding	repair areas with damaged hardstanding	50	design is in draft stage, waiting approval from the Agency	Project Manager	improved awareness among operators to reduce risk
Additional improvements	set trigger levels for SW1	30	Interior high risk areas have been completed. Outdoor repairs are required. RSD% is to high to accept values, more data required. Monthly sampling of SW1	group responsibility	improve environmental performance, reduce emissions, increase compliance.
Additional improvements		10	10 samples will continue to increase data input.	EHS officer	Improved Environmental Management Practices

- 1 Was noise monitoring a licence requirement for the AER period? Yes
- If yes please fill in table N1 noise summary below
was noise monitoring carried out using the EPA guidance note, including completion of the "checklist for noise measurement report" included in the guidance note as table 6? Yes
- 2 Does your site have a noise reduction plan? No
- 3 When was the noise reduction plan last updated? NA
- 4 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? No

Table N1: Noise monitoring summary

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is site compliant with noise limits (day/evening/night)?
16.10.18	Annual	Odour Abatement System	NA	62.2	58	NA	77.4	No	No	Odour abatement system was not audible with traffic, and train noise interference.	No
		N1 entrance (daytime)	NA	60.1	51.6	62.8	82.17	No	No	audible interference during daytime measurement due traffic entering the site, and cranes moving metal beside this facility.	No
		N1 entrance (night time)	NA	53.5	50.3	55.05	67.69	No	No	Traffic on Crag Avenue contributed to night time noise levels. No significant site operations were audible during night time period.	No
		N2 - South-east (daytime)	NA	59.8	53.5	62.8	61.37	No	No	intermittent noise of NAPS, as doors opened and closed. Trucks entering and leaving the site, and cranes from neighbouring facility moving metal.	No
		N2 - South-east (night time)	NA	50.6	48.3	52.5	60.95	No	No	night time readings mainly influenced by traffic on M50	No
		N3 - Western (daytime)	NA	58.1	50.1	59.6	78.47	No	No	Main source of noise from site was trucks delivering to MRB1. Some contribution by traffic	No
		N3 - Western (night time)	NA	51.9	49.5	53.05	60.8	No	No	No site operations were audible at N3 during night time monitoring.	No
		N4 - Palmerstown Wood (daytime)	NA	60.1	49.7	63.77	76.3	No	No	No site operations were audible at N4 during day time monitoring.	No
		N4 - Palmerstown Wood (night time)	NA	52.2	48.6	52.2	67.25	No	No	No site operations were audible at N4 during night time monitoring.	No
		N5 - James Connolly Park (daytime)	NA	59.6	49.6	63.4	77.67	No	No	No site operations were audible at N5 during day time monitoring.	No
		N5 - James Connolly Park (night time)	NA	53.1	47.4	55.35	72.45	No	No	No site operations were audible at N5 during night time monitoring.	No

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

nothing**

Actions to reduce noise were not taken, as the noise associated with operations at this facility were related to truck movements, and the VSD extract fan. In order to reduce noise, the VSD would need to be slowed down, causing greater risk of odour nuisance. Interference noise from the motorway or neighbouring businesses cannot be actioned by Greyhound Recycling.

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

Lic No:

W0205-01

Year

2018

Additional information

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
[SEAI - Large Industry](#)
[Energy Network](#)
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the
 SEAI programme linked to the right? If yes please list them in additional information
[\(LIEN\)](#)
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

	10/11/2016	NA
No		NA
No		NA

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)	NA	NA		
Total Energy Generated (MWHrs)	NA	NA	NA	NA
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	2,661.84	2,102.60	-30%	-9.70%
Fossil Fuels Consumption:	NA	NA	NA	NA
Heavy Fuel Oil (m3)	152.1	127	-16%	-5.60%
Light Fuel Oil (m3)	NA	NA	NA	NA
Natural gas (m3)	NA	NA	NA	NA
Coal/Solid fuel (metric tonnes)	NA	NA	NA	NA
Peat (metric tonnes)	NA	NA	NA	NA
Renewable Biomass	NA	NA	NA	NA
Renewable energy generated on site	NA	NA	NA	NA

* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*	Water Emissions		Water Consumption	
					Volume Discharged back to environment(m ³ /yr):	Volume used i.e. not discharged to environment e.g. released as steam m3/yr.	Unaccounted for Water:	
Groundwater	NA	NA	NA	NA	NA	NA	NA	NA
Surface water	NA	NA	NA	NA	NA	NA	NA	NA
Public supply								
Recycled water	NA	NA	NA	NA	NA	NA	NA	NA
Total								

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary	Lic No: W0205-01	Year 2018
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Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
NA	NA	NA	SELECT	NA	NA	NA	NA	NA
NA	NA	NA	SELECT	NA	NA	NA	NA	NA
NA	NA	NA	SELECT	NA	NA	NA	NA	NA

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry) please complete the following information

	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology	NA	NA	NA	NA	NA
Primary Fuel	NA	NA	NA	NA	NA
Thermal Efficiency	NA	NA	NA	NA	NA
Unit Date of Commission	NA	NA	NA	NA	NA
Total Starts for year	NA	NA	NA	NA	NA
Total Running Time	NA	NA	NA	NA	NA
Total Electricity Generated (GWH)	NA	NA	NA	NA	NA
House Load (GWH)	NA	NA	NA	NA	NA
KWH per Litre of Process Water	NA	NA	NA	NA	NA
KWH per Litre of Total Water used on	NA	NA	NA	NA	NA

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Complaints and incidents summary template

Lic No: W0205-01		Year: 2018												
Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor	Cause of incident	Other cause(please specify)	Activity in progress at time of incident	Communication	Occurrence	Corrective action<20 words	Preventative action <20 words	Resolution status	Resolution date	Likelihood of recurrence
20.07.18	Other(please specify)	Other location (please specify here)	1. Minor	Air	Other (add details)	Truck damaged door to MHS1	Normal activities	EPA	Recurring	The door was replaced with a right-hand action door, inside of fabric, to decrease damage severity in the event of another collision.	The fabric door is capable of placing itself back on its rollers after a truck hits it. Provided the fabric is not torn, the door will remain operational.	Complete	Sep-18	Medium
Total number of incidents current														
Year		1												
Total number of incidents previous														
Year		3												
% reduction/increase		60%												

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SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY PRTR FACILITY MANAGERS dropdown list click to see options

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility? (waste generated within your boundaries is to be captured through PRTR reporting)

Additional Information
 Yes

If yes please enter details in table 1 below

Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

No

Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

No

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code European Waste Catalogue EWC codes	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction / Increase over previous year +/- %	Reason for reduction/increase from previous reporting year	Packaging Content (%) only applies if the waste has a packaging component	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
250,000	01 03 99	01- WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	plastic container tailings from mineral treatments	70.34	0	100%	New customer requirement	100%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	0	NA
	15 01 01	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	cardboard packaging	9100.39	25.44	128%	new customer	99%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	105	TFS
	15 01 02	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	HDPE commercial plastic	88.98	1807.74	105%	material tipped at different facility	100%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	88.98	NA
	15 01 06	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	mixed dry packaging material	25,901.60	#####	17%	increase in customer base	95%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	832	Residual fraction returned to GRR as Dross (19 12 12)
	17 09 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	mixed Construction and Demolition waste	2,770.94	1,982.86	28%	increase in customer base	15%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	164.72	NA
	19 12 04	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	HDPE commercial plastic	2.64	10.18	26%	decrease in customer requirements	99%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	10.18	NA

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WASTE SUMMARY		Lic No: W0205-01		Year		2018				
19 12 10	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	RDF	1,278.30	2839.86	55%	Less exports from droghed as material goes to incinerator	80%	R1-Use principally as a fuel or other means to generate energy	8	NA
19 12 12	12- WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS	residual plastic material following MDR processing	17,937.89	14,147	27%	increase in supply chain to meet customer demand	80%	R1-Use principally as a fuel or other means to generate energy	181	NA
20 01 38	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	wood	104.50	9.78	91%	increase in commercial customer base	0%	R3-Recycling/reclamation or organic substances which are not used as solvents(including composting another biological transformation processes)which includes gasification and pyrolysis	0	NA
20 01 38	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	wooden pallets	14.59	0	100%	increase in commercial customer base	100%	R3-Recycling/reclamation or organic substances which are not used as solvents(including composting another biological transformation processes)which includes gasification and pyrolysis	0	NA
20 01 39	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	plastic	19.12	102	98%	material tipped at different facility	100%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	102	NA
20 02 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	brown bin material	17,685.28	9426.86	46%	acceptance of brown bin material began in June 2017, while it continued for 12 months of 2018, so an increase of 46% in expected.		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, separating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	269.13	NA
20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	MMW	6,884.35	104221	40%	material tipped at different facility	60%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	2000	NA
20 03 07	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	bulky MMW	11,587.48	2766.2	124%	increase in customer base	25%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resulting in recovery of the soil and recycling of inorganic construction materials	339	NA
	TOTAL In		149446.4							

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery)

- Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite
 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site
 6 Does your facility have relevant nuisance controls in place?
 7 Do you have an odour management system in place for your facility? If no why?
 8 Do you maintain a sludge register on site?

Yes	na
Yes	Infrastructure in place, WSP has not been approved by the Agency yet
Yes	
Yes	
Yes	Bund register, and interceptor sludge transfer records

SECTION D-TO BE COMPLETED BY LANDFILL

Table 2 Waste type and tonnage-landfill only

Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

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Table 4 Environmental Monitoring Standards

Was meteorological monitoring in compliance with Landfill Directive (LD)	Was leachate monitored in compliance with LD standard in reporting year	Was Landfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the	Was topography of the site surveyed in	Has the statement under S53(A)(5) of WMA been submitted in	Comments

+ please refer to Landfill Manual linked above for relevant Landfill Directive monitoring standards

Table 5 Capping-Landfill only

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m ² ha, a	Area capped other	waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
SELECT UNIT	SELECT UNIT					

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant?

SELECT

10 Is leachate released to surface water? If yes please complete leachate mass load information below

SELECT

Volume of leachate in reporting year(m ³)	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load (kg/annum)	Leachate treatment on-site	Specify type of leachate treatment	Comments

note that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with this

Table 7 Landfill Gas-Landfill only

Gas Captured & Treated by LFG System m ³	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments
			SELECT	

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