Facility Information Summary	
AER Reporting Year	2017
Licence Register Number	WO291-01
Name of site	Forge Hill Recycling Center
Site Location	Forge Hill,Cork,T12 AK44
NACE Code	3832
Class/Classes of Activity	11.1, 11.5
National Grid Reference (6E, 6 N)	166903E,068775N

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.

Forge Hill Recycling is a waste transfer and recycling facility located in Togher, Co. Cork. Waste handling activities at the facility consist of accepting and bulk loading of commercial, industrial and municipal waste for transfer to a number of approved landfills in Cork. In addition, recyclable waste (cardboard, timber, plastic and metal) are recovered from the waste streams and sent to various recycling companies. The main activity on-site is considered to be the bulk loading and transfer of waste and recyclables.

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.

Brian Dunne	26/07/2018
Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Date

AIR-summary template | Lic No: WO291-01 | Year 2017

Answer all questions and complete all tables where relevant

			Additional information
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 a solvent management plan** (table A4 and A5) you do not need to complete the tables	No	

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	
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	Yes	

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 therof	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	Total Particulates	Quarterly(Q1)	350	Daily average < ELV	148	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D2	Total Particulates	Quarterly(Q1)	350	Daily average < ELV	139	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D3	Total Particulates	Quarterly(Q1)	350	Daily average < ELV	4757	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D4	Total Particulates	Quarterly(Q1)	350	Daily average < ELV	329	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D1	Total Particulates	Quarterly(Q2)	350	Daily average < ELV	192	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D2	Total Particulates	Quarterly(Q2)	350	Daily average < ELV	227	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D3	Total Particulates	Quarterly(Q2)	350	Daily average < ELV	N/A	mg/m2/day	no (if no please enter details in comments box)	VDI method 2119 part 2 (Bergerhoff Gauge)		
D4	Total Particulates	Quarterly(Q2)	350	Daily average < ELV	192	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D1	Total Particulates	Quarterly(Q3)	350	Daily average < ELV	153	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D2	Total Particulates	Quarterly(Q3)	350	Daily average < ELV	282	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		

AIR-summary template					Lic No:	WO291-01		Year	2017	
D3	Total Particulates	Quarterly(Q3)	350	Daily average < ELV	296	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D4	Total Particulates	Quarterly(Q3)	350	Daily average < ELV	231	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D1	Total Particulates	Quarterly(Q4)	350	Daily average < ELV	57	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D2	Total Particulates	Quarterly(Q4)	350	Daily average < ELV	98	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D3	Total Particulates	Quarterly(Q4)	350	Daily average < ELV	103	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		
D4	Total Particulates	Quarterly(Q4)	350	Daily average < ELV	326	mg/m2/day	yes	VDI method 2119 part 2 (Bergerhoff Gauge)		

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

AIR-summary template	Lic No:	WO291-01	Year	2017

7

Continuous Monitoring

Does your site carry out continuous air emissions monitoring?	Yes	
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		
Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below	No	
Do you have a proactive service agreement for each piece of continuous monitoring equipment?	Yes	
Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	No	

Table A2: Summary of average emissions -continuous monitoring

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

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

8

* 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

Solvent use and management on site

Do you have a total Emission Limit Value of direct and fugitive emissions on site? if yes please fill out tables A4 and A5	SELECT	

Table A4: Solvent Management Plan Summary Total VOC Emission limit value	Solvent regulations	Please refer to linked solvent regulations to complete table 5 and 6

AIR-summary template Lic No: WO291-01 Year 2017

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 therof	Compliance
					SELECT
					SELECT

Table A5: Solvent Mass Balance summary

	(I) Inputs (kg)	(O) Outputs (kg)						
Solvent	(I) Inputs (kg)	Organic solvent emission in waste gases(kg)	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-passes (kg)	Solvents destroyed onsite through physical reaction e.g. incineration(kg)	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: WO291-01 Year 2017

		Additional information	
1	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** licenced emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections	No	There is one surface water monitoring point at the facility. It is the outlet for the storm water to the Lehanagh Beg stream(River Waterbody code:IE_SW_19M300900) that the sample is taken from.
2	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	Daily visual inspections are required of the storm water discharges.

There is one surface water monitoring point at the facility. It is the outlet for the storm water to the Lehanagh Beg stream(River Waterbody code:IE_SW_19M300900) that the sample is taken from

Table W1 Storm water monitoring

Location reference	Location relative to site activities	PRTR Parameter	Licenced 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 Baseline Data / Reg Limits as appropriate listed below
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	24/08/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	24/08/2017	No	SELECT	0.08	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	24/08/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	24/08/2017	No	SELECT	122	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	24/08/2017	No	SELECT	63	uS/cm	yes	
SW-1	onsite	SELECT	pH	24/08/2017	No	SELECT	7.14	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	24/08/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	24/08/2017	No	SELECT	1.9	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	24/08/2017	No	SELECT	14	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	29/08/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	29/08/2017	No	SELECT	0.11	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	29/08/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	29/08/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	29/08/2017	No	SELECT	137	uS/cm	yes	
SW-1	onsite	SELECT	pH	29/08/2017	No	SELECT	7.6	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	29/08/2017	No	SELECT	3	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	29/08/2017	No	SELECT	2.7	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	29/08/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	06/09/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	06/09/2017	No	SELECT	0.05	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	06/09/2017	No	SELECT	1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	06/09/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	06/09/2017	No	SELECT	69	uS/cm	yes	
SW-1	onsite	SELECT	pH	06/09/2017	No	SELECT	7.24	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	06/09/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	06/09/2017	No	SELECT	1.6	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	06/09/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	14/09/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	14/09/2017	No	SELECT	0.1	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	14/09/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	14/09/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	14/09/2017	No	SELECT	49	uS/cm	yes	
SW-1	onsite	SELECT	pH	14/09/2017	No	SELECT	6.84	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	14/09/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	14/09/2017	No	SELECT	0.8	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	14/09/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	18/09/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	18/09/2017	No	SELECT	0.2	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	18/09/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	18/09/2017	No	SELECT	12	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	18/09/2017	No	SELECT	93	uS/cm	yes	
SW-1	onsite	SELECT	pH	18/09/2017	No	SELECT	6.91	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	18/09/2017	No	SELECT	3	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	18/09/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	18/09/2017	No	SELECT	17	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	25/09/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	25/09/2017	No	SELECT	0.21	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	25/09/2017	No	SELECT	1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	25/09/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	25/09/2017	No	SELECT	107	uS/cm	yes	
SW-1	onsite	SELECT	pH	25/09/2017	No	SELECT	7.03	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	25/09/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	25/09/2017	No	SELECT	1.4	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	25/09/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	05/10/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	05/10/2017	No	SELECT	0.03	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	05/10/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	05/10/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	05/10/2017	No	SELECT	137	uS/cm	yes	
SW-1	onsite	SELECT	pH	05/10/2017	No	SELECT	8.1	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	05/10/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	05/10/2017	No	SELECT	1.4	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	05/10/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	11/10/2017	No	SELECT	<10	ug/l	yes	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)					Lic No:	WO291-01		Year	2017	
SW-1	onsite	SELECT	Total Ammonia as N	11/10/2017	No	SELECT	0.27	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	11/10/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	11/10/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	11/10/2017	No	SELECT	58	uS/cm	yes	
SW-1	onsite	SELECT	pH	11/10/2017	No	SELECT	6.31	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	11/10/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	11/10/2017	No	SELECT	1.1	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	11/10/2017	No	SELECT	10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	18/10/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	18/10/2017	No	SELECT	0.32	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	18/10/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	18/10/2017	No	SELECT	10	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	18/10/2017	No	SELECT	519	uS/cm	yes	
SW-1	onsite	SELECT	pH	18/10/2017	No	SELECT	6.53	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	18/10/2017	No	SELECT	3	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	18/10/2017	No	SELECT	1.5	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	18/10/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	24/10/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	24/10/2017	No	SELECT	0.28	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	24/10/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	24/10/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	24/10/2017	No	SELECT	27	uS/cm	yes	
SW-1	onsite	SELECT	pH	24/10/2017	No	SELECT	6.25	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	24/10/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	24/10/2017	No	SELECT	1.1	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	24/10/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	01/11/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	01/11/2017	No	SELECT	<0.03	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	01/11/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	01/11/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	01/11/2017	No	SELECT	143	uS/cm	yes	
SW-1	onsite	SELECT	pH	01/11/2017	No	SELECT	7.1	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	01/11/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	01/11/2017	No	SELECT	1.8	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	01/11/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	07/11/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	07/11/2017	No	SELECT	0.05	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	07/11/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	07/11/2017	No	SELECT	15	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	07/11/2017	No	SELECT	22	uS/cm	yes	
SW-1	onsite	SELECT	pH	07/11/2017	No	SELECT	6.48	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	07/11/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	07/11/2017	No	SELECT	0.8	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	07/11/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	15/11/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	15/11/2017	No	SELECT	0.37	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	15/11/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	15/11/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	15/11/2017	No	SELECT	160	uS/cm	yes	
SW-1	onsite	SELECT	pH	15/11/2017	No	SELECT	7.9	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	15/11/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	15/11/2017	No	SELECT	1.9	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	15/11/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	23/11/2017	No	SELECT	470	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	23/11/2017	No	SELECT	0.12	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	23/11/2017	No	SELECT	1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	23/11/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	23/11/2017	No	SELECT	129	uS/cm	yes	
SW-1	onsite	SELECT	pH	23/11/2017	No	SELECT	6.54	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	23/11/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	23/11/2017	No	SELECT	1.6	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	23/11/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	07/12/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	07/12/2017	No	SELECT	0.15	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	07/12/2017	No	SELECT	<1	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	07/12/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	07/12/2017	No	SELECT	113	uS/cm	yes	
SW-1	onsite	SELECT	pH	07/12/2017	No	SELECT	7.59	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	07/12/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	07/12/2017	No	SELECT	1.4	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	07/12/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	14/12/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	14/12/2017	No	SELECT	1.31	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	14/12/2017	No	SELECT	4	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	14/12/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	14/12/2017	No	SELECT	209	uS/cm	yes	
SW-1	onsite	SELECT	pH	14/12/2017	No	SELECT	7.55	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	14/12/2017	No	SELECT	18	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	14/12/2017	No	SELECT	1.7	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	14/12/2017	No	SELECT	22	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	20/12/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	20/12/2017	No	SELECT	0.58	mg/l	yes	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)					Lic No:	WO291-01		Year	2017	
SW-1	onsite	SELECT	BOD (Settled)	20/12/2017	No	SELECT	2	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	20/12/2017	No	SELECT	8	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	20/12/2017	No	SELECT	220	uS/cm	yes	
SW-1	onsite	SELECT	pH	20/12/2017	No	SELECT	7.19	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	20/12/2017	No	SELECT	3	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	20/12/2017	No	SELECT	3.2	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	20/12/2017	No	SELECT	<10	mg/l	yes	
SW-1	onsite	SELECT	Mineral Oil (C10-C40)	28/12/2017	No	SELECT	<10	ug/l	yes	
SW-1	onsite	SELECT	Total Ammonia as N	28/12/2017	No	SELECT	0.21	mg/l	yes	
SW-1	onsite	SELECT	BOD (Settled)	28/12/2017	No	SELECT	NA	mg/l	yes	
SW-1	onsite	SELECT	COD (Settled)	28/12/2017	No	SELECT	<7	mg/l	yes	
SW-1	onsite	SELECT	Electrical Conductivity @25C	28/12/2017	No	SELECT	37	uS/cm	yes	
SW-1	onsite	SELECT	pH	28/12/2017	No	SELECT	6.32	pH units	yes	
SW-1	onsite	SELECT	Total Organic Carbon	28/12/2017	No	SELECT	<2	mg/l	yes	
SW-1	onsite	SELECT	Total Nitrogen	28/12/2017	No	SELECT	1.4	mg/l	yes	
SW-1	onsite	SELECT	Total Suspended Solids	28/12/2017	No	SELECT	10	mg/l	yes	

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: WO291-01 Year 2017

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
			SELECT		

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
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	

Table W3: Licensed Emissions to water and /or wastewater (sewer)-periodic monitoring (non-continuous)

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source

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

Continuous monitoring

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

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**		
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?		
8	Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below**		

Table W4: Summary of average emissions -continuous monitoring

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
FW-1	Wastewater/Sewer	COD		Weekly	All values < ELV	mg/L	0.002063	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	TSS		Weekly	All values < ELV	mg/L	0.003604	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	BOD		Monthly	All values < ELV	mg/l	0.000123	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Fats, Oils and Greases		Monthly	All values < ELV	µg/L	0.00000437	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Detergents (as MBAS)		Quarterly	All values < ELV	mg/L	0.0000049	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Sulphate		Quarterly	All values < ELV	mg/L	0.0000842	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	VOCs		Quarterly	All values < ELV	mg/L	N.D.	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Total Nitrogen		Bi-annually	All values < ELV	mg/L	0.0000082	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Mineral oils		Bi-annually	All values < ELV	mg/L	N.D.	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Hydrocarbons		Bi-annually	All values < ELV	mg/L	N.D.	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the
FW-1	Wastewater/Sewer	Total Heavy Metals		Annual	All values < ELV	mg/L	0.0000885	NA	2(Approximately)	0	Monitoring equipment downtime was due to routine annual calibration of the

note 1: Volumetric flow shall be included as a reportable parameter.
N.D.=Non detect

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template Lic No: WO291-01 Year 2017

Bund testing — dropdown menu click to see options

			Additional information
1	Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included)	Yes	
2	Please provide integrity testing frequency period	3 years	
3	Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)	Yes	
4	How many bunds are on site?	1	
5	How many of these bunds have been tested within the required test schedule?	1	
6	How many mobile bunds are on site?	0	
7	Are the mobile bunds included in the bund test schedule?	N/A	
8	How many of these mobile bunds have been tested within the required test schedule?	N/A	
9	How many sumps on site are included in the integrity test schedule?	N/A	
10	How many of these sumps are integrity tested within the test schedule?	N/A	
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	Yes	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	Yes	
13	Is the Fire Water Retention Pond included in your integrity test programme?	No	

Table B1: Summary details of bund /containment structure integrity test

Bund/Containment structure ID	Type	Specify Other type	Product containment	Actual capacity	Capacity required*	Type of integrity test	Other test type	Test date	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
Oil Tank Bund	other (please specify)	Steel Plate	Oil			Hydraulic test		12th June 2018	Yes	Pass				

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

			Commentary
15	Has integrity testing been carried out in accordance	bunding and storage guidelines	Yes
16	Are channels/transfer systems to remote containment systems tested?		SELECT
17	Are channels/transfer systems compliant in both integrity and available volume?		SELECT

Pipeline/underground structure testing

1	Are you required by your licence to undertake integrity testing* on	No	
2	Please provide integrity testing frequency period	SELECT	

*please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

ıry details of pipeline/underground structures integrity test

Structure ID	Type system	Material of construction:	Does this structure have Secondary containment?	Type of secondary containment	Type integrity testing	Integrity reports maintained on site?	Results of test	Integrity test failure explanation <50 words	Corrective action taken	Scheduled date for retest	Results of retest(if in current reporting year)
	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT

Please use commentary for additional details not answered by tables/ questions above

Groundwater/Soil monitoring template	Lic No:	WO291-01	Year	2017

			Comments	
1	Are you required to carry out groundwater monitoring as part of your licence requirements?	yes		Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
2	Are you required to carry out soil monitoring as part of your licence requirements?	no		
3	Do you extract groundwater for use on site? If yes please specify use in comment section	no		
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	no		Groundwater monitoring at Forge Hill is compared to the Groundwater trigger levels approved by the agency in December 2011. None of the results exceed the GTVs and these specific groundwater parameters have only been monitored since August 2017 so it is not possible to produce a 5 year trend.
5	Is the contamination related to operations at the facility (either current and/or historic)	no		
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	N/A		
7	Please specify the proposed time frame for the remediation strategy	N/A		
8	Is there a licence condition to carry out/update ELRA for the site?	yes		
9	Has any type of risk assesment been carried out for the site?	no		
10	Has a Conceptual Site Model been developed for the site?	no		
11	Have potential receptors been identified on and off site?	no		
12	Is there evidence that contamination is migrating offsite?	no		

Table 1: Upgradient* Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
2017	GW-1	Fluoride	Ion Selective Electrode	Biannual	<0.3	<0.3	pH Units	6.5 - 9.5	IGV	No
2017	GW-1	Chloride #	By Calculation	Biannual	40.9	40.9	°C	25	site GTL	No
2017	GW-1	Nitrate as NO3 #	By Calculation	Biannual	0.2	0.2	mg/l	1.96	site GTL	No
2017	GW-1	Total Ammonia as NH3 #	By Calculation	Biannual	0.06	0.06	mg/l	31.28	site GTL	No
2017	GW-1	COD (Settled) #	Chemical Oxygen Demand is determined by hot digestion with Potassium Dichromate and measured spectrophotometerically	Biannual	<7	<7	mg/l	6.25	site GTL	No
2017	GW-1	Electrical Conductivity @25C #	Metrohm automated probe analyser	Biannual	586	586.0	mg/l	112.3	site GTL	No
2017	GW-1	pH #	Metrohm automated probe analyser	Biannual	6.79	6.79	mg/l	NAC	site GTL	No
2017	GW-1	Total Nitrogen	By Calculation	Biannual	1	1	mg/l	12.99	site GTL	No

.+ where average indicates arithmetic mean

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

* Note: The only well at the facility is located directly on site and as such is neither upgradient or downgradient

Table 2: Downgradient Groundwater monitoring results

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

Groundwater/Soil monitoring template				Lic No:	WO291-01			Year	2017	

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 Groundwater monitoring template 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 GTV's | Drinking water (private supply) standards

Table 3: Soil results

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

Drinking water (public supply) standards | Interim Guideline Values (IGV)

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

	Environmental Liabilities template	Lic No:	WO291-01	Year	2017

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	433,423	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	433,423	
6	Financial Provision for ELRA - type	Public Liability Insurance with Environmental Impairment Liability cover,	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and agreed by EPA	
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
11	Financial Provision for Closure - amount of cover	€99,968	
12	Financial Provision for Closure - type	Public Liability Insurance with Environmental Impairment Liability cover,	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template

Lic No: WO291-01 Year 2017

	Highlighted cells contain dropdown menu click to view		Additional Information
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	
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

Noise monitoring summary report

Lic No: WO291-01 Year 2017

1	Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes
2	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?	Noise Guidance note NG4	Yes
3	Does your site have a noise reduction plan		No
4	When was the noise reduction plan last updated?		Enter date
5	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)?
15/11/2017	Daytime	N1	-	63	57	67		No		Inbuilding operations inaudible,Road traffic outside boundary continuously dominant	Yes
16/11/2017	Daytime	N1	-	65	54	69		No		Compressor continuously at low level. Truck idling on weighbridge at NW corner of site continuously quite audible until departure at 0847.Passing traffic outside boundary almost continuously dominant	Yes
16/11/2017	Daytime	N1	-	63	55	66		No		Compressor continuously slightly audible.	Yes
15/11/2017	Evening	N1	-	57	49	59		No		Compressor quite audible continuously, ramping up and down. No other emissions audible.N27 traffic to S almost continuously quite audible. Intermittent passing traffic outside boundary dominant when present. Aircraft.	Yes
16/11/2017	Night	N1	-	59	53	60		No		Compressor quite audible continuously.	Yes
16/11/2017	Night	N1	-	46	38	47		No		Compressor quite audible continuously.	Yes
15/11/2017	Daytime	N2	-	64	56	67		No		Inbuilding operations slightly audible from time to time, chiefly plant reversing alarms	Yes
16/11/2017	Daytime	N2	-	66	55	69		No		Truck idling on weighbridge to 0847 continuously clearly audible. No other emissions audible,	Yes
16/11/2017	Daytime	N2	-	63	56	66		No		No emissions audible, due to break.Passing traffic outside boundary almost continuously dominant	Yes
15/11/2017	Evening	N2	-	57	47	59		No		Inbuilding operations audible at low level continuously.N27 traffic to S quite audible continuously. Intermittent passing traffic dominant when present.Aircraft.	Yes
16/11/2017	Night	N2	-	59	49	61		No		As Previous	Yes
16/11/2017	Night	N2	-	52	38	46		No		Compressor slightly audible continuously.Distant road traffic regularly quite audible	Yes
15/11/2017	Daytime	N3	-	76	58	83		No		Several truck movements on yard until 1619, remaining dominant throughout due to idling/manoeuvring.Road traffic in several directions continuously clearly audible	Yes
16/11/2017	Daytime	N3	-	61	58	62		No		Several truck movements on yard dominant when present.Road traffic in several directions continuously clearly audible	Yes
16/11/2017	Daytime	N3	-	59	56	61		No		Several truck movements on yard dominant when present.Road traffic in several directions continuously clearly audible	Yes
15/11/2017	Evening	N3	-	57	60	52		No		No emissions audible, apart from slightly audible grab activity to 2200.	Yes
15/11/2017	Night	N3	-	57	54	60		No		Inbuilding operations audible at low level continuously, significantly masked by N27 traffic.N27 & N40 traffic continuously clearly audible	Yes
16/11/2017	Night	N3	-	53	46	55		No		No emissions audible.Road traffic regularly clearly audible in distance on several roads	Yes
15/11/2017	Daytime	N4	-	62	57	64		No		Several truck movements on yard.N27 & N40 traffic continuously clearly audible	Yes
16/11/2017	Daytime	N4	-	60	57	62		No		Several truck movements on yard up to 0814 dominant when present. Operations in building slightly audible, almost entirely masked by traffic	Yes
16/11/2017	Daytime	N4	-	58	55	59		No		Several truck movements on yard clearly audible.Operations in building slightly audible, almost entirely masked by traffic	Yes
15/11/2017	Evening	N4	-	56	51	58		No		Processing emissions in building slightly audible continuously to 2158, when shut down. No emissions audible thereafter.	Yes
16/11/2017	Night	N4	-	56	51	59		No		Inbuilding operations slightly audible continuously.N27 & N40 traffic continuously dominant	Yes
16/11/2017	Night	N4	-	47	40	50		No		No emissions audible	Yes
15/11/2017	Daytime	-	NSL1	70	54	74		No		Facility: Inaudible	Yes
16/11/2017	Daytime	-	NSL1	70	56	75		No		Facility: Inaudible	Yes
16/11/2017	Daytime	-	NSL1	70	56	75		No		Facility: Inaudible	Yes
16/11/2017	Evening	-	NSL1	64	50	66		No		Facility: Inaudible	Yes
15/11/2017	Night	-	NSL1	57	46	53		No		Facility: Inaudible	Yes
15/11/2017	Night	-	NSL1	54	43	50		No		Facility: Inaudible	Yes
15/11/2017	Daytime	-	NSL2	65	55	69		No		Facility: Inaudible	Yes
15/11/2017	Daytime	-	NSL2	68	57	71		No		Facility: Inaudible	Yes
15/11/2017	Daytime	-	NSL2	67	57	71		No		Facility: Inaudible	Yes
16/11/2017	Evening	-	NSL2	62	53	66		No		Facility: Inaudible	Yes
15/11/2017	Night	-	NSL2	58	53	61		No		Facility: Inaudible	Yes
15/11/2017	Night	-	NSL2	57	51	58		No		Facility: Inaudible	Yes
15/11/2017	Daytime	-	NSL3	48	44	51		No		Facility: Inaudible	Yes

16/11/2017	Daytime	-	NSL3	51	47	52		No		Facility: Inaudible	Yes
16/11/2017	Daytime	-	NSL3	51	49	52		No		Facility: Inaudible	Yes
16/11/2017	Evening	-	NSL3	47	42	49		No		Facility: Inaudible	Yes
16/11/2017	Night	-	NSL3	38	33	40		No		Facility: Inaudible	Yes
16/11/2017	Night	-	NSL3	34	31	36		No		Facility: Inaudible	Yes

*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?

SELECT

** please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary	Lic No:	WO291-01	Year	2017

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	Sep-10	
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	No	SEAI - Large Industry Energy Network (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	SELECT	Not Applicable

Table R1 Energy usage on site

Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (MWHrs)				
Electricity Consumption (MWHrs)	15.04315	49.33793	327.97%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	16.48878	40.39188	244.96%	
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass				
Renewable energy generated on site				

* 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

Table R2 Water usage on site

					Water Emissions	Water Consumption	
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*	Volume Discharged back to environment(m^3yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	1.281	0.951(as of 22/08/2017)					
Recycled water							
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

Resource Usage/Energy efficiency summary

Lic No: WO291-01 Year 2017

Table R3 Waste Stream Summary

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

Table R4: Energy Audit finding recommendations

Date of audit	Recommendations	Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					
			SELECT					
			SELECT					

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

Complaints and Incidents summary template Lic No: WO291-01 Year 2017

Complaints		
		Additional information
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	Yes	

Table 1 Complaints summary

Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words) / EPA Complaint Ref	Corrective action< 20 words	Resolution status	Resolution date	Further information
23/03/2017	Odour		COM005730	Closed All Doors	Complete	23/03/2017	
19/09/2017	Dust		Yellow Dust Drops on car	Check Dust Extraction-Not	Complete	19/09/2017	
20/09/2017	Odour		City Link Park odour	Mist air not on-Turned on	Complete	20/09/2017	
18/12/2017	Noise		Noise from shed(defective speakers)	Repaired Speakers	Complete	18/12/2017	
13/03/2017	Odour		City Link Park Odour	Closed Back Doors	Complete	13/03/2017	
Total complaints open at start of reporting year	1						
Total new complaints received during reporting year	5						
Total complaints closed during reporting year	5						
Balance of complaints end of reporting year	0						

Complaints and Incidents summary template Lic No: WO291-01 Year 2017

Incidents		
		Additional information
Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below	Yes	

*For information on how to report and what constitutes an incident	What is an incident

Table 2 Incidents summary

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 reoccurence
26/04/2017	Breach of ELV	D3 dust monitoring point	1. Minor	Air	Operational controls		Normal activities	EPA	New	Incident Reported to Cork County Council	Ivy cut back around monitoring point and gravel pile nearby reduced.	Ongoing	26/04/2017	Low

Total number of incidents current year	1
Total number of incidents previous year	0
% reduction/ increase	100%

WASTE SUMMARY	Lic No:	WO291-01	Year	2017
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	PRTR facility logon		dropdown list click to see options	

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

			Additional Information
1	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) If yes please enter details in table 1 below	Yes	
2	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	
3	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)

Licenced annual tonnage limit for your site (total tonnes/annum)	EWC code European Waste Catalogue EWC codes	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 -
	EWC 19 12 03	*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*	Aluminium Cans	*13.8*	0	100%	*Market Forces*		*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*75*	
	EWC 20 03 01	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	Dry Recyclables	80785.386	31,916	153%	*Market Forces*		*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*50*	
	EWC 20 01 39	*20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS*	Plastic Bottles	374.65	125.9	198%	*Market Forces*		*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*150(All Plastic not solely bottles)*	
	EWC 19 12 02	*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*	Steel Cans	27.16		100%	*Market Forces*		*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*28*	
	EWC 19 12 01	*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*	Returned Soft Mxed paper	701.9		-7%			*R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials*	*90*	

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4	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	Yes	
5	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	Yes	
6	Does your facility have relevant nuisance controls in place?	Yes	
7	Do you have an odour management system in place for your facility? If no why?	Yes	
8	Do you maintain a sludge register on site?	N/A	

WASTE SUMMARY Lic No: WO291-01 Year 2017

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

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

Table 3 General information-Landfill only

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated	Inert or non-hazardous	Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?	Accepted asbestos in reporting year	Total disposal area occupied by waste	Lined disposal area occupied by waste	Unlined area	Comments on liner type
										m2	m2	SELECT UNIT	

Table 4 Environmental monitoring-landfill only Landfill Manual-Monitoring Standards

Was meterological monitoring in compliance with Landfill Directive (LD) standard in reporting year +	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 Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	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 m2 ha, a	Area capped other	Area with waste that should be permanently capped to date under licence	What materials are used in the cap	Comments
m2	m2					

*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?

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

Volume of leachate in reporting year(m3)	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

Please ensure that all information reported in the landfill gas section is consistent with the Landfill Gas Survey submitted in conjunction with PRTR returns

Table 7 Landfill Gas-Landfill only

Gas Captured&Treated by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid	Was surface emissions monitoring performed during the reporting year?	Comments