Facility Information Summary

AER Reporting Year Licence Register Number Name of site Site Location NACE Code Class/Classes of Activity National Grid Reference (6E, 6 N)

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** <u>listing all</u> <u>exceedances of licence limits (where</u> <u>applicable) and what they relate to e.g. air,</u> <u>water, noise.</u>

			_	
2017				
W0026-03				
		Kyletalesh	na Landfill	
	Μοι	Intmellick R	oad, Portlaoise	
		38	21	
	Landf	ill for Non-H	lazardous Waste	
		245403,	202646	

Landfilling activities ceased on site in November 2012 and completion of capping works on the final section of mini-cell 15b was completed in March 2013. Despite the closed status of the site limited household waste volumes are still accepted at the domestic waste deposit area for offsite transfer and disposal by a licensed contractor. All environmental monitoring was completed as required under schedule D of the waste licence. Groundwater, landfill gas, flare stack emissions, dust deposition, leachate and surface water monitoring results for 2017 were consistent with previous historical results. All the 2017 quartely and annual monitoring reports for the site have been uploaded to Eden and contain additional information on any exceedances that have been recorded.

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.

Ken Farrell	29/03/2018
Signature Group/Facility manager	Date
(or nominated, suitably qualified and experienced deputy)	

	AIR-summary template	Lic No:	W0026-03 Year	2017
_	Answer all questions and complete all tables where relevant			
			Additional information	
	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 <u>do not</u> need to complete the tables	Yes	Uniflare 750 m³ Flare	
	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	Yes	The exceedence in dust deposition at D3 during the Ma sampling event was due to the presence of algae growth the sampling vessel.	

Yes

³ Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist?

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

Emission reference no:	Parameter/ Substance	Frequency of	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
	Carbon monoxide (CO)	Annual	50	No 30min mean can exceed the ELV	5.24	mg/m3	yes	EN 15058:2004	6.92	
	Nitrous oxide (N2O)	Annual	150	No 30min mean can exceed the ELV	114.73	mg/m3	yes	EN 14792:2006	151.48	
Uniflare	Total Volatile Organic Carbon (TOC)	Annual	10	No 30min mean can exceed the ELV	5.12	mgC/m3	yes	EN 12619:2013	6.76	
	Hydrogen Chloride (HCL)	Annual	50	No 30min mean can exceed the ELV	2.93	mg/m3	yes	EN 1911:2010	3.87	
	Hydrogen Fluoride (HF)	Annual	5	No 30min mean can exceed the ELV	4.97	mg/m3	yes	EN 15713:2006	6.56	
	Volumetric Flow	Annual	N/A	No 30min mean can exceed the ELV	150	m3/hour	yes	N/A		

AGN2

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

Emission reference no: D1 - May D2 - May D3 - May	Parameter/ Substance Dust Deposition Dust Deposition Dust Deposition	Frequency of	ELV in licence or any revision therof 350 mg/m²/day 350 mg/m²/day	Licence Compliance criteria Daily average < ELV Daily average < ELV Daily average < ELV	Measured value 54.91 93.39 415.26		Compliant with licence limit yes yes no	Method of analysis SELECT SELECT SELECT	Annual mass load (kg) N/A N/A	Comments - reason for change in % mass load from previous year if applicable Algae growth was noted in the vessel upon
D1 - June	Dust Deposition	Triannully	350 mg/m²/day	Daily average < ELV	118.93	mg/m2/day	yes	SELECT	N/A	collection
D2 - June	Dust Deposition	Triannully	350 mg/m²/day	Daily average < ELV	54.27	mg/m2/day	yes	SELECT	N/A	

AIR-summary t	emplate				Lic No:	W0026-03		Year	2017	
D3 - June	Dust Deposition	Triannully	350 mg/m²/day	Daily average < ELV	302.08	mg/m2/day	yes	SELECT	N/A	
D1 - July	Dust Deposition	Triannully	350 mg/m²/day	Daily average < ELV	68.11	mg/m2/day	yes	SELECT	N/A	
D2 - July	Dust Deposition	Triannully	350 mg/m²/day	Daily average < ELV	62.64	mg/m2/day	yes	SELECT	N/A	
D3 - July	Dust Deposition	Triannully	350 mg/m²/day	Daily average < ELV	63.83	mg/m2/day	yes	SELECT	N/A	

AIR-summary template		W0026-03	Year	2017
Continuous Monitoring				
4 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 (ELV)

⁵ Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below

Do you have a proactive service agreement for each piece of continuous monitoring equipment?

6

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No	
Yes	
No	

Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions -continuous monitoring

Emission reference no:	Parameter/ Substance	ELV in licence or any revision therof		Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments
Site Office	CH4	1.0% v/v	Daily	Daily average < ELV	%v/v	N/A	0%	0	0	Less than ELV for all readings
Site Office	CO2	1.5% v/v	Daily	Daily average < ELV	%v/v	N/A	0%	0	0	Less than ELV for all readings
Weighbridge	CH4	1.0% v/v	Daily	Daily average < ELV	%v/v	N/A	0%	0	0	Less than ELV for all readings
Weighbridge	CO2	1.5% v/v	Daily	Daily average < ELV	%v/v	N/A	0%	0	0	Less than ELV for all readings
CA Site Office	CH4	1.0% v/v	Daily	Daily average < ELV	%v/v	N/A	0%	0	0	Less than ELV for all readings
CA Site Office	CO2	1.5% v/v	Daily	Daily average < ELV	%v/v	N/A	0%	0	0	Less than ELV for all readings

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

* 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 t	emplate				Lic No:	W0026-03		Year	2017
Solvent	use and manageme	nt on site							
io you have a total	Emission Limit Value of d	irect and fugitive emis	sions on site? if ye			No			
	ent Management Pla ssion limit value	n Summary	<u>Solvent</u> regulations	Please refer to linked solver complete table 5					
Reporting year	Total solvent input on site (kg)		Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
					SELECT				
Table A5:	Solvent Mass Baland	ce summary			SELECT	1			
	(I) Inputs (kg)			(0)	Outputs (kg)				
Solvent	(I) Inputs (kg)	0	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)	
									4
ļ					ļ				4

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0026-03 Additional information

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 <u>only</u> need to complete table W1 and or W2 for storm water analysis and visual inspections

No	Leachate is tankered off site to Laois County Council Waste Water Treatment Plant
Yes	Schedule D.5

2017

Year

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Was it a requirement of your licence to carry out visual inspections on any surface water 2 discharges or watercourses on or near your site? If yes please complete table W2 below summarising <u>only any evidence of contamination noted during visual inspections</u>

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
			Ammonia (as N)	15/02/2017 18/04/2017 30/09/2017 18/12/2017	0.14	All values < ELV	3.7, 0.09, 2.9, 3.02	mg/L	no	
			BOD	15/02/2017 18/04/2017 30/09/2017 18/12/2017	2.6	All values < ELV	3, 2.5, 3.4, 4	mg/L	no	
			COD	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40	All values < ELV	79, 65, 105, 95	mg/L	no	
			Chloride	15/02/2017 18/04/2017 30/09/2017 18/12/2017	250	All values < ELV	19.5, 14.2, 22.6, 23.9	mg/L	yes	
			Conductivity	15/02/2017 18/04/2017 30/09/2017 18/12/2017	1000	All values < ELV	411, 562, 436, 404	μS/cm @20oC	yes	Fully engineered cells in area.
5001	upstream		Dissolved Oxygen	15/02/2017 18/04/2017 30/09/2017 18/12/2017	No abnormal change	No abnormal change	60.7, 84.3, 33.2, 61.2	% saturation	yes	Breakdown of organics in bog most probably contributing to
			Ortho-phosphate (as PO4)	15/02/2017 18/04/2017 30/09/2017 18/12/2017	0.06		<0.03, <0.03, <0.03, 0.03	mg/L	yes	elevated concentrations.
			рН	15/02/2017 18/04/2017 30/09/2017 18/12/2017	No abnormal change	No abnormal change	7.38, 7.79, 7.47, 7.51	pH units	yes	
			Suspended Solids	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40		<5, <5, 8, 6	mg/L	yes	
			Temperature	15/02/2017 18/04/2017 30/09/2017 18/12/2017	<2.6 above ambient temperature		6.1, 6.9, 11, 8.7	degrees C	yes	
			Total Oxidised Nitrogen	15/02/2017 18/04/2017 30/09/2017 18/12/2017	50		<1, <1, <1, 0.89	mg/L	yes	
			Ammonia (as N)	15/02/2017 18/04/2017 30/09/2017 18/12/2017	0.14	All values < ELV	10.2, 19.9, 7.9, 7.57	mg/L	no	
			BOD	15/02/2017 18/04/2017 30/09/2017 18/12/2017	2.6	All values < ELV	2.3, 4, 5.1, 4	mg/L	no	
			COD	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40	All values < ELV	85, 79,109, 86	mg/L	no	
			Chloride	15/02/2017 18/04/2017 30/09/2017 18/12/2017	250	All values < ELV	46.4, 84.4, 54.6, 45.3	mg/L	yes	
			Conductivity	15/02/2017 18/04/2017 30/09/2017 18/12/2017	1000	All values < ELV	627, 407, 648, 716	μS/cm @20oC	yes	Fully engineered cells in area.
5003	downstream		Dissolved Oxygen	15/02/2017 18/04/2017 30/09/2017 18/12/2017	No abnormal change	No abnormal change	59.4, 11.6, 41.1, 50.2	% saturation	????	Breakdown of organics in bog most probably contributing to

AER Monitor	ring returns su	mmary template-WA	ATER/WASTEWA	TER(SEWER)		Lic No:	W0026-03		Year	2017
			Ortho-phosphate (as PO4)	15/02/2017 18/04/2017 30/09/2017 18/12/2017	0.06		<0.03, <0.03, <0.03, 0.09	mg/L	no	elevated concentrations.
			pН	15/02/2017 18/04/2017 30/09/2017 18/12/2017	No abnormal change	No abnormal change	7.6, 7.82, 7.63, 7.75	pH units	yes	
			Suspended Solids	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40		<5, 16, 23, 7	mg/L	yes	_
			Temperature	15/02/2017 18/04/2017 30/09/2017 18/12/2017	<2.6 above ambient temperature		4.8, 7.4, 11.2, 9.5	degrees C	yes	
			Total Oxidised Nitrogen	15/02/2017 18/04/2017 30/09/2017 18/12/2017 15/02/2017	50		<1, <1, 1.3	mg/L	yes	
			Ammonia (as N)	15/02/2017 18/04/2017 30/09/2017 18/12/2017 15/02/2017	0.14	All values < ELV	0.2, 0.14, 0.3, 0.4	mg/L	no	-
			BOD	18/04/2017 30/09/2017 18/12/2017	2.6	All values < ELV	1.9, 1.4, 10, 4	mg/L	no	
			COD	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40	All values < ELV	76, 68, 185, 93	mg/L	no	-
			Chloride	15/02/2017 18/04/2017 30/09/2017 18/12/2017 15/02/2017	250	All values < ELV	92.5, 100.9, 103, 80.5	mg/L	yes	-
			Conductivity	18/04/2017 30/09/2017 18/12/2017	1000	All values < ELV	1023, 1094, 997, 1043	μS/cm @20oC	yes	Fully engineered cells in area.
5004	downstream		Dissolved Oxygen	15/02/2017 18/04/2017 30/09/2017 18/12/2017	No abnormal change	No abnormal change	60.8, 67.1, 66.7, 65.7	% saturation	yes	Breakdown of organics in bog most probably contributing to
			Ortho-phosphate (as PO4)	15/02/2017 18/04/2017 30/09/2017 18/12/2017	0.06		<0.03, <0.03, <0.03, 0.08	mg/L	no	elevated concentrations.
			рН	15/02/2017 18/04/2017 30/09/2017 18/12/2017	No abnormal change	No abnormal change	7.87, 7.88, 7.94, 8	pH units	yes	
			Suspended Solids	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40		10, 43, 27, 6	mg/L	no	
			Temperature	15/02/2017 18/04/2017 30/09/2017 18/12/2017	<2.6 above ambient temperature		6.5, 6.2, 12.6, 7.8	degrees C	yes	-
			Total Oxidised Nitrogen	15/02/2017 18/04/2017 30/09/2017 18/12/2017	50		2.2, 1.4, 1.6, 4.2	mg/L	yes	
			Ammonia (as N)	15/02/2017 18/04/2017 30/09/2017 18/12/2017 15/02/2017	0.14	All values < ELV	52.3, 94.1, 60.1, 54.87	mg/L	no	-
			BOD	18/04/2017 30/09/2017 18/12/2017	2.6	All values < ELV	9.6, 15.2, 15.8, 7	mg/L	no	
			COD	15/02/2017 18/04/2017 30/09/2017 18/12/2017	40	All values < ELV	88, 157, 110, 69	mg/L	no	-
			Chloride	15/02/2017 18/04/2017 30/09/2017 18/12/2017 15/02/2017	250	All values < ELV	170, 248.4, 264.7, 232.3	mg/L	no	-
			Conductivity	18/04/2017 30/09/2017 18/12/2017	1000	All values < ELV	2300, 2800, 2200, 1983	μS/cm @20oC	yes	Fully engineered cells in area.

Ideal control Ideal contro Ideal control Idea												
Mer Mer Max Max <th>ER Monitori</th> <th>ing returns su</th> <th>mmary template-WA</th> <th>TER/WASTEWA</th> <th>ATER(SEWER)</th> <th></th> <th>Lic No:</th> <th>W0026-03</th> <th></th> <th>Year</th> <th>2017</th> <th></th>	ER Monitori	ing returns su	mmary template-WA	TER/WASTEWA	ATER(SEWER)		Lic No:	W0026-03		Year	2017	
1 Part Part Part Part Part Part Part Part	S005	onsite		Dissolved Oxygen	18/04/2017 30/09/2017		No abnormal change	20.6, 30, 44.4, 86	% saturation	yes	organics in bog most probably	
10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10					15/02/2017 18/04/2017 30/09/2017	0.06		<0.03, <0.03, <0.03, 0.09	mg/L	No	elevated	
Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note <td></td> <td></td> <td></td> <td>рН</td> <td>15/02/2017 18/04/2017 30/09/2017 18/12/2017</td> <td></td> <td></td> <td>7.69, 7.65, 7.64, 7.59</td> <td>pH units</td> <td>yes</td> <td></td> <td></td>				рН	15/02/2017 18/04/2017 30/09/2017 18/12/2017			7.69, 7.65, 7.64, 7.59	pH units	yes		
Image: Provide set of the set of				Suspended Solids	18/04/2017 30/09/2017 18/12/2017	40		12, 28, 30, 8	mg/L	yes		
No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.				Temperature	18/04/2017 30/09/2017 18/12/2017	ambient		5.7, 6.2, 11.2, 8.6	degrees C	yes		
Image: Note of the section o					18/04/2017 30/09/2017 18/12/2017	50		1.2, <1, <1, 1.11	mg/L	yes		
100 1000 1000000 10000000 10000000 10000000 1000000				Ammonia (as N)	18/04/2017 30/09/2017 18/12/2017	0.14	All values < ELV	0.74, 0.59, 0.42, 0.46	mg/L	no		
No Image: Normal Section Sectin Sectin Sectin Section Sectin Section Section Sectin Section S				BOD	18/04/2017 30/09/2017 18/12/2017	2.6	All values < ELV	1.4, 1.8, 4.3, <5	mg/L	no		
Note Image: Section of the sectin of the				COD	18/04/2017 30/09/2017 18/12/2017	40	All values < ELV	`31, 26, 61, 35	mg/L	no		
939 Image: Provide of the section of the sectin of the section of the section of the section of the				Chloride	18/04/2017 30/09/2017 18/12/2017	250	All values < ELV	30, 18.5, 23.6, 20.7	mg/L	yes		
939 94 96 96 96 97 98 97 0				Conductivity	18/04/2017 30/09/2017 18/12/2017	1000	All values < ELV	608, 560, 595, 485	μS/cm @20oC	yes	cells in area.	
Image: series of the	S030			Dissolved Oxygen	18/04/2017 30/09/2017 18/12/2017			61.9, 84.1, 24.9, 64.2	% saturation	yes	organics in bog most probably contributing to	
No absorbing (N) No absorbing (N)<		onsite		Ortho-phosphate (as PO4)	18/04/2017 30/09/2017 18/12/2017	0.06		<0.03, <0.03, <0.03, 0.02	mg/L	yes		
501 upstreen Suspended Solin 18/04/2017 18/02/2017 40 40 <				pН	18/04/2017 30/09/2017 18/12/2017			7.7, 7.73, 7.94, 7.71	pH units	yes	-	
Solution Image: Feature in the solution of the solutio				Suspended Solids	18/04/2017 30/09/2017 18/12/2017	40		<5, <5, <5, <5	mg/L	yes		
Solution Total Oxidined Nitrogen (N)(9)(2)(1) Total Oxidined Nitrogen (N)(9)(2)(1) Solution (N)(9)(1) Solution (N)(9)(1) Nutrogen (N)(9)(1) Solution (N)(9)(1) Nutrogen (N)(9)(1) Solution (N)(9)(1) Nutrogen (N)(9)(1) Solution (N)(9)(1) Nutrogen (N)(9)(1) Solution (N)(9)(1) Nutrogen (N)(9)(1) Nutrogen (N)(1) Nutrogen				Temperature	18/04/2017 30/09/2017 18/12/2017	ambient		5, 7.4, 11.5, 9	degrees C	yes		
Son1 upstream Arsenic Boron 25 1.3 up/l yes - Boron 0.0375 -0.23 mg/l yes - Cadmium 0.00375 -0.0066 mg/l yes - Calcium 0.00375 -0.0066 mg/l yes - Chromium 0.0375 -0.0066 mg/l yes - Chromium 0.0375 -0.0066 mg/l yes - Chromium 0.0015 -0.0066 mg/l yes - Is/12/2017 1 0.677 mg/l yes - Marganesum - - - - - 50 6.5 mg/l yes - - - - Nickel - - - - - - - 0.05 - 0.022 - - - - - Polytasim - -				Nitrogen	18/04/2017 30/09/2017							
Soli Upstream Baron 0.75 -0.23 mg/l yes 0 Cadinium 0.00375 -0.0006 mg/l yes 0 Calcium -0.00375 -0.0006 mg/l yes 0 Copper -0.00375 -0.006 mg/l yes 0.0017 -0.005 -0.006 mg/l yes 0.0017 -0.005 -0.006 mg/l yes 0.0017 -0.001 -0.001 mg/l yes 18/12/017 -0.011 -0.011 mg/l yes 0.01875 -0.002 mg/l yes organics in bog 0.01875 -0.001 mg/l yes organics in bog 0.01875 -0.002 0.002 mg/l yes 0.02 -0.002 mg/l yes organics in bog 0.02 -0.002 mg/l yes organics in bog 0.02 -0.022 mg/l yes organics in bog					ł						-	
501 upstream Calcium 0.00375 <					ł			40.23	ug/I me/I			
Sona Calcium Calcium 200 58.6 mg/l yes - Chromium - Chromium <t< td=""><td></td><td></td><td></td><td></td><td>ł</td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td></t<>					ł							
S01 upstream Copper Inon Magnesium Magnesium Magnesium Magnese 0.0015 <0.009 mg/l yes mg/l cells in area. 1 0.67 mg/l yes organics in bog most probably 0.01875 <0.006				Calcium	İ	200		58.6	mg/l	yes	1	
S01 Inon Lead 1 0.67 mg/l yes Braddown of 1 Labd 0.01875 <				Chromium	I	0.0375		0.006	mg/l	yes		
S001 upstream Lead 18/12/2017 0.01875 < < < organics in bog organici in bog organics in bog					ł							
Magnesium Magnesium LS/12/201 50 6.5 mg/l yes mot probably Magnesium Magnesium 50 6.5 mg/l yes mot probably Marganese 50 118 ug/l yes elevated Mercury 0.05 0.0001 mg/l yes elevated Nickel 0.02 0.022 mg/l yes concentrations. Sodium 5 5.3 mg/l yes scontrations.					ł							
Marganese 50 118 ug/l yes contributing to Mercury 0.05 <0.0001	S001	upstream		Magnesium	18/12/2017	50					most probably	
Mercury 0.05 < mg/l yes elevated Nickel 0.02 0.02 mg/l yes concentrations. Potassium 5 5.3 mg/l neg/l neg/l Sodium 150 14.2 mg/l yes neg/l				Manganese	1	50		118	ug/l		contributing to	
Potassium 5 5.3 mg/l no Sodium 150 14.2 mg/l yes					ļ	0.05		<0.0001	mg/l	yes		
Sodium 150 14.2 mg/l yes					ł						concentrations.	
				Sodium	ŧ	150		5.5				
				Zinc	t	0.1		0.02	mg/i	yes	1	

AER Monito	oring returns su	mmary template-WATER/W	VASTEWAT	TER(SEWER)		Lic No:	W0026-03		Year	2017
		Alk	kalinity		No Change		182	mg/l	yes	
		Sul	Iphate		187.5		<	mg/l	yes	
		Alur	minium		200		<100	ug/I	yes	
		Ar	rsenic		25		1.1	ug/l	yes	
		B	Boron		0.75		<0.23	mg/l	yes	
		Cad	dmium		0.00375		<0.0006	mg/l	yes	
		Ca	alcium		200		73.6	mg/l	yes	
		Chro	omium		0.0375		0.006	mg/l	yes	Fully engineered
		Co	opper		0.0015		<0.009	mg/l	yes	cells in area.
		1	Iron		1		0.89	mg/l	yes	Breakdown of
S003	downstream		Lead	18/12/2017	0.01875		0.007	mg/l	yes	organics in bog
5005	downstream	Mag	gnesium	10/12/2017	50		11	mg/l	yes	most probably
		Man	nganese		50		127	ug/l	no	contributing to
		Me	ercury		0.05		<0.0001	mg/l	yes	elevated
		N	lickel		0.02		0.015	mg/l	yes	concentrations.
		Pot	tassium		5		9.64	mg/l	no	
		So	odium		150		29.9	mg/l	yes	
		ž	Zinc		0.1		0.02	mg/l	yes	
		Alk	kalinity		No Change		255	mg/l	yes	
		Sul	Iphate		187.5		<5	mg/l	yes	
		Alur	minium		200		<100	ug/I	yes	

ER Monitori	ing returns su	nmary template-W	ATER/WASTEW	ATER(SEWER)		Lic No:	W0026-03		Year	2017
		, template ti		1	25	1				1
			Arsenic Boron	ł	25		2 0.28	ug/l	yes	-
			Cadmium	-	0.00375		<0.0006	mg/l	yes	
			Calcium	-	200		137	mg/l	yes	
			Calcium	-	0.0375		0.006	mg/l mg/l	yes	
				-	0.0375		<0.006		yes	Fully engineered
			Copper Iron	-	1		<0.009	mg/l	yes	cells in area.
			Lead	-	0.01875		<0.006	mg/l	yes	Breakdown of
S004	downstream		Magnesium	18/12/2017	0.01875		26.9	mg/l	yes	organics in bog most probably
			Manganese	-	50		70.3	mg/l	yes no	contributing to
			Mercury	-	0.05		<0.0001	ug/l		elevated
			Nickel	-	0.03		0.021	mg/l mg/l	yes no	concentrations.
			Potassium	-	5		15	mg/l	no	concentrations.
			Sodium	+	150		51.9	mg/l	yes	-
			Zinc	+	0.1		0.03	mg/l	yes	-
			Alkalinity	ł	No Change		409	mg/l	yes	
			Sulphate	t	187.5		112.32	mg/l	yes	1
			Aluminium		200		<100	ug/l	yes	
			Arsenic	†	25		<1.0	ug/l	yes	1
			Boron	1	0.75		0.85	mg/l	no	
			Cadmium	1	0.00375		<0.0006	mg/l	yes	
			Calcium	Ť	200		156	mg/l	yes	
			Chromium	1	0.0375		0.009	mg/l	yes	Fully engineered
			Copper	1	0.0015		<0.009	mg/l	yes	cells in area.
			Iron	1	1		1.15	mg/l	no	Breakdown of
5005			Lead	10/10/0017	0.01875		<0.006	mg/l	yes	organics in bog
S005	onsite		Magnesium	18/12/2017	50		45.5	mg/l	yes	most probably
			Manganese		50		285	ug/l	no	contributing to
			Mercury		0.05		<0.0001	mg/l	yes	elevated
			Nickel		0.02		0.019	mg/l	yes	concentrations.
			Potassium	Ī	5		50.9	mg/l	no	
			Sodium	Ī	150		169	mg/l	no	
			Zinc	Ī	0.1		0.03	mg/l	yes	
			Alkalinity	Ī	No Change		870	mg/l	yes	
			Sulphate	I	187.5		69.22	mg/l	yes	
-			Aluminium		200		<100	ug/l	yes	
			Arsenic	1	25		1.9	ug/l	yes	
			Boron		0.75		<0.23	mg/l	yes	
			Cadmium	1	0.00375		<0.0006	mg/l	yes	
			Calcium		200		106	mg/l	yes	
			Chromium		0.0375		<0.002	mg/l	yes	Fully engineered
			Copper		0.0015		<0.009	mg/l	yes	cells in area.
			Iron		1		0.33	mg/l	yes	Breakdown of
S030	onsite		Lead	18/12/2017	0.01875		<0.006	mg/l	yes	organics in bog
			Magnesium	10,12,2017	50		6.9	mg/l	yes	most probably
			Manganese		50		62.9	ug/I	no	contributing to
			Mercury		0.05		<0.0001	mg/l	yes	elevated
			Nickel	1	0.02		<0.003	mg/l	yes	concentrations.
			Potassium	ļ	5		1.91	mg/l	yes	
			Sodium	ļ	150		12.8	mg/l	yes	
			Zinc	ł	0.1		<0.018	mg/l	yes	-
			Alkalinity	1	No Change		282	mg/l	yes	4
			Sulphate		187.5		45.71	mg/l	yes	

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

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		
[SELECT		

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

3	Was there any result in breach of licence requirements? If y comment section of Table W3		No	Additional information
	Was all monitoring carried out in accordance with EPA			
	guidance and checklists for Quality of Aqueous Monitoring	External /Internal		
	Data Reported to the EPA? If no please detail what areas	Lab Quality Assessment of		
4	require improvement in additional information box	checklist results checklist	t Yes	

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

Emission reference no:	Emission released to	Parameter/ SubstanceNote 1		Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision therof ^{Note 2}	Licence Compliance criteria	Measured value		Compliant with licence			Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT		
		cluded as a reportable para												•

Two e 1. voluments i now shall be included as a reportable planified. Note 2: Where Emission Limit Values [EV] 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:	W0026-03	Year	2017
	Continuous monitoring			Additional Information		
	Does your site carry out continuous emissions to water/sewer monitoring?	No				
	If yes please summarise your continuous monitoring data below in Table W4 and compare it to its relevant Emission Limit Value (ELV)		•		·	
	Did continuous monitoring equipment experience downtime? If yes please record downtime in					
	table W4 below	SELECT				
	Do you have a proactive service contract for each piece of continuous monitoring equipment on					
	site?	SELECT				
	Did abatement system bypass occur during the reporting year? If yes please complete table W5					
	below	SELECT				

Table W4: Summary of average emissions -continuous monitoring

			ELV or trigger values in licence					% change +/- from previous reporting		Number of ELV	
Emission	Emission			Averaging	Compliance	Units of	Annual Emission for current			exceedences in	
reference			thereof				reporting year (kg)		downtime (hours)		Comments
reference	SELECT	SELECT	thereof	SELECT	SELECT	SELECT	reporting year (kg)		downtime (nours)	reporting year	comments
-	SELECT			SELECT							
	SELECT	SELECT		SELECT	SELECT	SELECT					

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund/Pipeline testing template	Lic No:	W0026-03		Year	2017	
Bund testing dropdown menu click to see options			Additional information	7		
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	Yes				
the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore in 1	ncluded)					
2 Please provide integrity testing frequency period		3 years	as per condition 3.11.5			
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, su	imps and containers? (containers refers to "Chemstore'	Yes				
3 type units and mobile bunds)		103				
4 How many bunds are on site?		6				
5 How many of these bunds have been tested within the required test schedule?		All				
6 How many mobile bunds are on site?		1				
7 Are the mobile bunds included in the bund test schedule?		No	Bunds Regularly Changed			
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?		All		7		
10 How many of these sumps are integrity tested within the test schedule?		All		7		
Please list any sump integrity failures in table B1		<u> </u>	•			
11 Do all sumps and chambers have high level liquid alarms?		N/A		1		
12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?		N/A				
13 Is the Fire Water Retention Pond included in your integrity test programme?		N/A		1		
13 is the Fire water Retention Pond included in your integrity test programme?		IN/A				

Tal	ble B1: Summary details of	f bund /containment structure int	egrity test											
Bund/Containment									Integrity reports maintained on		Integrity test failure		Scheduled date	
structure ID		Specify Other type	Product containment	Actual capacity	Capacity required*		Other test type			Results of test	explanation <50 words	Corrective action taken		reporting year)
1A	reinforced concrete		Green waste			Hydraulic test		02/09/2015	Yes	Pass	N/A	N/A	N/A	N/A
1B	reinforced concrete		Green waste			Hydraulic test		02/09/2015	Yes	Pass	N/A	N/A	N/A	N/A
1C	reinforced concrete		Green waste			Hydraulic test		02/09/2015	Yes	Pass	N/A	N/A	N/A	N/A
2	reinforced concrete		Waste quarantine			Hydraulic test		02/09/2015	Yes	Pass	N/A	N/A	N/A	N/A
3	reinforced concrete		Waste inspection			Hydraulic test		02/09/2015	Yes	Pass	N/A	N/A	N/A	N/A
4	reinforced concrete		Waste oil bund			Hydraulic test		02/09/2015	Yes	Pass	N/A	N/A	N/A	N/A
* Capacity required should con	nply with 25% or 110% containment	t rule as detailed in your licence					Commentary							
Has integrity testing be 5 line with BS8007/EPA		nce with licence requirements and	d are all structures tested in	bunding and storage guide	lines	Yes								
5 mic mich 550007/EFA	ourounce.			barraing and storage guide				4						

16 Are channels/transfer systems to remote containment systems tested?
17 Are channels/transfer systems compliant in both integrity and available volume?

Yes	
Yes	
Yes	

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? if yes please fill out table 2 below listing all 1 underground structures and pipelines on site which failed the integrity test and all which have not been tested within the integrity test period as specified 2 Please provide integrity testing frequency period

No	
N/A	

*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence) Table 82: Summary details of nineline/underground structures integrity test _

Id	Die BZ. Summary details of p	ipeline/underground structures in	legitly test						
Structure ID	Type system		Does this structure have Secondary containment?	Type of secondary containment		Integrity reports maintained on site?			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

		Comments	
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
2 Are you required to carry out soil monitoring as part of your licence requirements?	no		interpretation box below or if you require additional space please include
3 Do you extract groundwater for use on site? If yes please specify use in comment section	no		a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
Do monitoring results: show that groundwater generic suscement chains and a GTV or of CVP are accessed or is shown as in parent 4 trend in results for a substance? If y _{FN} planes complete the Groundwater Monitoring (under Templete Report (Rin k red GB) and submit separately through ALDER a a license return AND answer question 5:12 below. templete.	yes		
5 Is the contamination related to operations at the facility (either current and/or historic)	yes	historic	The results for groundwater sampling completed in 2017 indicated that the concentrations of contaminants of concern are consistent with historic
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	yes	Groundwater monitoring is continued to be carried out on a monthly basis	analysis results for the site. The results indicated that ammonia in all the down gradient wells in the south of the site exceeded the appropriate GTV. However, ammonia was also elevated in the area background wells (G4 &
7 Please specify the proposed time frame for the remediation strategy	yes	ongoing	G14). The results for 2017 indicated no increasing trend in groundwater
8 Is there a licence condition to carry out/update ELRA for the site?	yes	Condition 12.2.2	parameters on site. The 2017 quartely groundwater reports have been
9 Has any type of risk assesment been carried out for the site?	yes	Completed Groundwater Screening Assessment in 2013	uploaded to Eden and contain additional information on any exceedances that have been recorded.
10 Has a Conceptual Site Model been developed for the site?	yes	Completed as part of Groundwater Screening Assessment in 2013	
11 Have potential receptors been identified on and off site?	yes	Included in Groundwater Screening Assessment in 2013	
12 Is there evidence that contamination is migrating offsite?	no		

Year

2017

13

Table 1: Upgradient Groundwater monitoring results

Groundwater/Soil monitoring template Lic No: W0026-03

Date of	Sample	Parameter/			Maximum					Upward trend in pollutant concentration over last 5 years
sampling	location reference	Parameter/ Substance	Methodology	Monitoring frequency	Concentration++	Average Concentration+	unit	GTV's*	IGV	of monitoring dat
Jumping	Telefence	Ammonia (as	purged sample	nequency	2.54	2.27	mg/l	0.175	101	or monitoring dat
		Chloride	purged sample	1	20.6	17.5	mg/l	187.5		
		Conductivity @ 20°C	purged sample		539	530	µS/cm @20oC	1875		
30/01/2017		Dissolved Oxygen	purged sample		3.71	3.35	mg/l		No Abnormal Change	
21/06/2017	G4	Ortho-P (as P)	purged sample	Quarterly	< 0.03	< 0.03	mg/l	0.03		
29/09/2017 14/12/2017	04	рН	purged sample		7.7	7.62	pH units	6 - 9		
14/12/2017		Temperature	purged sample		12	10.88	degrees C	25		
		тос	purged sample		8	7.38	mg/l	No Abnormal Change		
		TON	purged sample		<1	<1	mg/l	No Abnormal Change		
		Ammonia (as N)	purged sample		1.54	1.37	mg/l	0.175		
		Chloride	purged sample		17.1	16.05	mg/l	187.5		
		Conductivity @ 20°C	purged sample		463	433	µS/cm @20oC	1875		
30/01/2017		Dissolved Oxygen	purged sample		3.65	3.32	mg/l		No Abnormal Change	
21/06/2017	G14	Ortho-P (as P)	purged sample	Quarterly	<0.03	< 0.03	mg/l	0.03		
29/09/2017 14/12/2017		pH	purged sample		7.73	7.63	pH units	6 - 9		
14/12/2017		Temperature	purged sample		12.8	11.35	degrees C	25		
		тос	purged sample		6.3	5.43	mg/l	No Abnormal Change		
		TON	purged sample		4	4	mg/l	No Abnormal Change		
++ maximum	rage indicates a concentration	indicates the m	aximum measur		m all monitoring resu	Its produced during	the reporting year			

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum	Average	unit	GTV's*	IGV	Upward trend in yearly average pollutant concentration over last 5 years of monitoring dat
		Ammonia (as N)	purged sample		2.65	1.86	mg/l	0.175		
		Chloride	purged sample		52.8	46.03	mg/l	187.5		
		Conductivity @ 20°C	purged sample		1149	1082	µS/cm @20oC	1875		
30/01/2017		Dissolved Oxygen	purged sample		3.78	3.26	mg/l		No Abnormal Change	
21/06/2017	G1	Ortho-P (as P)	purged sample	Quarterly	<0.03	< 0.03	mg/l	0.03		
29/09/2017 14/12/2017		pН	purged sample	4,000,000,00	7.58	7.43	pH units	6 - 9		
14/12/2017		Temperature	purged sample		12.3	11.13	degrees C	25		
		TOC	purged sample		11	9.58	mg/l	No Abnormal Change		
		TON	purged sample		<1	<1	mg/l	No Abnormal Change		
		Ammonia (as N)	purged sample		0.41	0.29	mg/l	0.175		
		Chloride	purged sample		14.6	11.93	mg/l	187.5		
		Conductivity @ 20°C	purged sample		489	451	μS/cm @20oC	1875		
30/01/2017		Dissolved Oxygen	purged sample		4.55	3.24	mg/l		No Abnormal Change	
21/06/2017	62	Ortho-P (as P)	purged sample	Quarterly	<0.03	< 0.03	mg/l	0.03		
29/09/2017		рН	purged sample	a,	7.8	7.75	pH units	6 - 9		
14/12/2017		Temperature	purged sample		11.8	10.85	degrees C	25		

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Index NAME Index N		ater/Soil me	onitoring ter	nplate		Lic No:	W0026-03		Year	2017	
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No. No. <td>NAME ADDE INCOME INCO</td> <td></td> <td></td> <td></td> <td>purged sample</td> <td></td> <td>604</td> <td>552</td> <td>µS/cm @20oC</td> <td>1875</td> <td></td> <td></td>	NAME ADDE INCOME INCO				purged sample		604	552	µS/cm @20oC	1875		
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TON purged sample -1 -1 mg/ll No mg/ll No 17 TON purged sample -2.1 1.9 mg/ll 0.175 - - 17 Choinel mg/ll 1.9.5 mg/ll 1.9.7 - - 17 Disolved mg/ld 1.9.7 mg/ll 1.97.5 - - 19 Disolved mg/ld 1.9.1 1.9.1 1.9.7 - - 19 Disolved mg/ld 1.9.2 1.9.1 1.9.1 1.9.7 - - 10 Disolved Morear 4.05 1.5.3 mg/ll 1.0.17 - - 10 Marged sample - 4.05 1.5.3 mg/ll No - - 11 Marged sample - 1.0 4.03 - - - - 12 11.0.6 Marger Construct - - - - -	NU057 Formation purged sample Cal rmg/l rmg/l Adversal Adversal NU057 Ammodia purged sample 2.1 1.9 rmg/l 0.175 Colorate NU057 Colorated purged sample 18.4 16.7 rmg/l 19.75 Colorate Obtoined purged sample purged sample 45.1 46.11 µk/m @200C 10.75 Colorate Obtoined purged sample Colorate 45.1 46.11 µk/m @200C 10.75 Colorate V20057 Particle sample Particle sample Colorate Colorate Colorate Colorate V20057 Particle sample Particle sample Colorate			TOC	purged sample		10	9.2	mg/l			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Annonia (x) Numped sample Checked (x) All (x) Annonia (x) Numped sample (x) Numped sample (x) 2.1 1.9 Mage (x) Numped sample (x) Numed samped sample (x) Numped sample (x) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>No</td> <td></td> <td></td>									No		
Annotais Bright Annotais B	Annotatic particle Auged sample 2.1 1.9 mg/l 0.175 Image 10017 Christie auged sample 18.4 16.7 mg/l 127.5 Image 10017 Graduttity purged sample 18.4 16.7 mg/l 127.5 Image 10017 Bolden purged sample 45.1 43.1 16.7 10.75 Image 10018 Bolden purged sample 40.5 15.3 Mg/l Image Image 12/0017 Pit purged sample -0.01 -0.03 mg/l 0.03 Image 12/001 Tot purged sample -11.08 Obgrees C 2.5 Image 12/01 11.4 9.83 mg/l Anno Image			TON	purged sample		<1	<1	mg/l	Abnormal		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	N Purget sample Conditivity 2.1 1.3 mg/l 0.15 1/0017 Conditivity Purget sample 1.4 1.67 mg/l 127.5 1 1/0017 Conditivity Purget sample 1.4 1.67 mg/l 127.5 1 1.9 1 1.0 1 1.0 1.0 1 1.0 1 1.0 1.0 1 1.0 1.0 1 1.0 1 1.0 1 1.0 1									Change		
Chicide purget sample 18.4 16.7 mg/l 1975 mg/l 12 615 Chicide purget sample 4.05 3.53 mg/l Ne Abnormal Charase 12 71 015 Minit 4.05 3.53 mg/l Ne Abnormal Charase 12 014 Purget sample 0.03 mg/l 0.03 Charase 17 014 7.16 purget sample 0.03 mg/l 0.03 Charase 17 02 purget sample 0.01 1.2 7.16 purget sample 0.03 Charase 170 purget sample 1.14 9.83 mg/l No Minite	Olione Justed sample 18.4 16.7 mg/l 18.75 Image: Constructive programme				purged sample		2.1	1.9	mg/l	0.175		
a 200 Degree Degrees ample Degree Degrees ample ample Asis 4.51 pp could be produe Loss Asis	Bitsbord Distability Distabilit				purged sample		18.4	16.7	mg/l	187.5		
B 2VC Control B 2VC Control 17 GLS Guester Quarterly 4.05 3.53 mg/l No Abormal 17 GLS PH parged sample Quarterly 4.05 1.03 mg/l 0.03 17 PH parged sample Quarterly 7.16 pt untax 6-9	Biological Microscope Biological Processing Durged sample Processing Quarterly Processing 4.05 1.53 mg/l No Abnormal Charee V2021 Otho F (an i) Processing Outper diample Processing Quarterly Processing 4.05 1.53 mg/l 000 000 J20207 Processing Processing 200 7.26 Pt (and processing) 000						451	431		1875		
Description Observe of programme orgent and programme Charace 127 615 Generation Quarterly -0.03 mg/1 Charace 127 Programme Programme -0.03 -0.03 mg/1 0.03 11 Top: programme 11.4 9.83 mg/1 0.03	Operation Operation Particle simple 4.05 1.3.1 mg/l Chose 0/007 Off Pol Fin R partice simple Operation 0.0007 0.000 -0.000 -0.000 -0.000 0/007 Partice simple Operation -0.000 -0.000 -0.000 -0.000 0/007 Partice simple -0.000 -0.000 -0.000 -0.000 -0.000 1000 purged sample -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 1000 purged sample -0.000 <				harden anubic			-			No Absorger	
Othor P (ER) P purged sample Outhor P (ER) P purged sample Quarterly	DARDED JUG027 Other Berg PH Durget sample Quarterly PH	30/01/2017			purged sample		4.05	3.53	mg/l			
D/ pH purged ample 7.24 7.16 pk(units) 6-9 Temperature purged ample 12 11.08 degrees C 25 TOC purged ample 11.4 9.83 mg/T No	MARY (2005) p4 porged sample Temperature purged sample 7.24 7.16 p4 units 6 - 9 1000 Temperature purged sample 1.2 1.1.0 66greets C 2.5 1000 purged sample 1.2 1.8 9.83 mg/l Annual Annual	21/06/2017	615		purged sample	Quarterly	< 0.03	< 0.03	mg/l			
TOC purged sample 12 11.08 Degrees C 2.5 TOC purged sample 11.4 9.83 mg/l Abnormal	remonstruct purgets simple 12 11.08 degrees 2.3 TOC purget sample 11.4 9.83 mg/1 Abnormal / house	29/09/2017	013			a and being						
TOC purged sample 11.4 9.83 mg/l Abnormal	TOC purged sample 11.4 9.83 mg/l Abnormal Chance			Temperature	purged sample		12	11.08	degrees C			
	Chance	14/12/2017					11.4	0.92	ma/l			
				TOC	ourned rame's			7.03	ing/i		1	1
No No				тос	purged sample					Change		
	TON purged sample <1 <1 mg/1 Abnormal Chance									No		
No No		30/01/2017 21/06/2017 29/09/2017	G15	Chloride Conductivity @ 20°C Dissolved Oxveen Ortho-P (as P) pH	purged sample purged sample purged sample purged sample purged sample	Quarterly	451 4.05 <0.03 7.24 12	431 3.53 <0.03 7.16 11.08	mg/i µS/cm @20oC mg/i mg/i pH units degrees C	0.03 6 - 9 25 No Abnormal		

Groundwa	ater/Soil mo	onitoring ter	nplate		Lic No:	W0026-03			Year	2017	
Table 3: S											
	Sample										
Date of	location	Parameter/		Monitoring	Maximum	Average					
sampling	reference	Substance	Methodology	frequency	Concentration	Concentration		unit			
							SELECT				
							SELECT				
						1	JELECI		1		

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

Environmental Liabilities template

Click here to access EPA guidance on Environmental Liabilities and Financial

provision

			Commentary
1	ELRA initial agreement status	Required but not submitted	Completed and Submitted March 2011
2	ELRA review status	Review required and not completed;	Reviewed in 217
3	Amount of Financial Provision cover required as determined by the latest ELRA	€149,760	
4	Financial Provision for ELRA status	Submitted and not agreed by EPA;	
5	Financial Provision for ELRA - amount of cover	€200,000 up to 2016	
6	Financial Provision for ELRA - type	cash deposit	
7	Financial provision for ELRA expiry date	16/11/2046	
8	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA	
9	Closure plan review status	Review required and completed	Review Completed in
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	€2.39 million	Revised in updated CRAMP
12	Financial Provision for Closure - type	cash deposit	
13	Financial provision for Closure expiry date	16/11/2046	

Lic No:

2017

Year

Environmental Management Programme/Continuous Improvement Programme	Lic No:	W0026-03	Year	
Highlighted cells contain dropdown menu click to view		Additional Information		

 Highlighted cells contain dropdown menu click to view

 1
 Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information

2 Does the EMS reference the most significant environmental aspects and associated impacts on-site

Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance 3 with the licence requirements

Do you maintain an environmental documentation/communication system to inform the public on 4 environmental performance of the facility, as required by the licence

Yes	
Yes	
Yes	
Yes	

Environmental Management Programme	EMP) report				
Objective Category	Target	Status (% completed)	How target was progressed	Responsibility	Intermediate outcomes
Additional improvements	Improve housekeeping at site	ongoing	Housekeeping duties updated regurlaly and completed within specified time schedules	Section Head	Improved Environmental Management Practices
Energy Efficiency/Utility conservation	Landfill gas utilisation	100		Section Head	Increased compliance with licence conditions
Groundwater protection	Carry out quarterly groundwater sampling	100	Sampling was conducted at 2 upgradient and 5 downgradient wells to monitor groundwater quality surrounding the site	Section Head	Increased compliance with licence conditions
Surface water protection	Carry out quarterly surface water sampling	100	Sampling was conducted at 5 locations to monitor surface water quality surrounding the site	Section Head	Increased compliance with licence conditions

Noise monitoring summary report	Lic No:	W0026-03	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?	<u>Noise</u> <u>Guidance</u> <u>note NG4</u>	Yes		
3 Does your site have a noise reduction plan		No	1	
4 When was the noise reduction plan last updated?		N/A		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since survey?	e the last noise	No		

Date of monitoring		Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive	If tonal /impulsive noise was identified was 5dB penalty	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site c</u> ompliant with noise limits (day/evening/night)?
25/04/2017	12:04 - 12:43	DN1		45.2	42	47.2	65.3	No	No	m7 and N80 traffic noise	Yes
25/04/2017	12:43 - 13:04	DN1		47.6	42.7	49.9	05.5	No	No	m7 and N80 traffic noise	Yes
25/04/2017	13:13 - 13:43	DN2		52	45.9	54.3	74.8	No	No	Civic Amenity site and related traffic	Yes
25/04/2017	13:43 - 14:13	DN2		51.4	46.6	53.8	74.0	No	No	Civic Amenity site and related traffic	Yes
25/04/2017	10.52 - 11:22	DN3		53.7	47.3	56.8	61.4	No	No	N80 traffic noise	Yes
25/04/2017	11:22 - 11:53	DN3		53.8	48	56.6	01.4	No	No	N80 traffic noise	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

SELECT

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

** 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:	W0026-03	Year	2017

Additional in	formation
---------------	-----------

1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 belo

Is the site a member of any accredited programmes for reducing energy usage/water conservation such2as the SEAI programme linked to the right? If yes please list them in additional information

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage i 3 additional information

n table 3 below	N/A	
<u>SEAI - Large</u> Industry Energy Network (LIEN)	No	
tate percentage in	No	

Table R1 Energy usag	e 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 (N	/WHrs)			
Electricity Consumption (MWHrs)	110.9	74.3	- 33%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)	5.47	5.13	- 6.22%	
Light Fuel Oil (m3)				
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	e on site				Water Emissions	Water Consumption	
						Volume used i.e not	
			Production +/- %	Energy		discharged to	
			compared to	Consumption +/- %	Volume Discharged	environment e.g.	
	Water extracted	Water extracted	previous reporting	vs overall site	back to	released as steam	
Water use	Previous year m3/yr.	Current year m3/yr.	year**	production*	environment(m ³ yr):	m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	175	169	- 3.43%				
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

Table R3 Waste Stream	Summary				
	Total	Landfill	Incineration	Recycled	Other
Hazardous (Tonnes)	1948.22				WWTP
Non-Hazardous (Tonnes)					

Resource	e Usage/Energy efficiency sum	nmary			Lic No:	W0026-03		Year	2017
	Table R4: Energy Au	udit finding recommendat	ions						
	Date of audit		Description of Measures proposed	Origin of measures	Predicted energy savings %	Implementation date	Responsibility		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:	W0026-03	Year	2017	
Complaints						
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	No	Additional inform	ation			

Table	1 Complaints summary						
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further information
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		
Total complaints open at start of reporting year Total new complaints received during reporting year							
Total complaints closed during							
reporting year							
Balance of complaints end of reporting year							

	Incidents											
				Additional information								
Have any incidents occurred on site in the current repo year in Tal	No											
*For information on how to report and what												
constitutes an incident	What is an incident											

Table 2 Incidents sun	nmary]											
						Other	Activity in				Preventative			
			Incident category*please			cause(please	progress at time			Corrective action<20	action <20		Resolution	Likelihood of
Date of occurrence	Incident nature	Location of occurrence	refer to guidance	Receptor	Cause of incident	specify)	of incident	Communication	Occurrence	words	words	Resolution status	date	reoccurence
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT		SELECT	SELECT	SELECT			SELECT		SELECT
Total number of														
incidents current														
year														
Total number of														
incidents previous														
year														
% reduction/]												
increase														

WASTE SUMMARY L	ic No:	W0026-03	Year	2017
SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTI	E FACILITIES	PRTR facility logon	dropdown list click to see options	

No

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES			
	-	Additional Information	
Were any wastes accepted onto your ske for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to 1 be captured through PATR reporting)	Yes	Public waste deposit area & CA Site	
If yes please enter details in table 1 below			
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		

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

3

3 Was waste accepted onto your site that was generated outide the Republic of Ireland? If yes please state the quantity in tonnes in additional information 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	f waste accepted onto your s EWC code	Source of waste accepted	Description of waste	Quantity of waste	Quantity of waste accepted in previous	Reduction/	Reason for	Packaging Content (%)-	Disposal/Recovery or treatment	Quantity of	Comments -
tonnage limit for your site (total tonnes/annum)	European Waste Catalogue EWC codes		accepted Please enter an accurate and detailed description - which applies to relevant EWC code European Waste. Catalogue EWC codes	accepted in current reporting year (tonnes)	reporting year (tonnes)	Increase over previous year +/ - %	reduction/ increase from previous reporting year	only applies if the waste has a packaging component	operation carried out at your site and the description of this operation	waste remaining on site at the end of reporting year (tonnes)	
	13 GZ O4	13-OIL WASTES AND WASTES OF LIQUID FUES (except edible alls, and those in chapters 05, 12 and 19)	Oil Fiters/Waste Oil	12.36					R12-Stachange of wester for submission to any of the approximation numbered R1 to R11 (if there is no arbors for a de- approprintiancy operations prior to recovery subdating pre- processing such as anomget althers, disconstring, sorting, crushing, composition, preliteising, dyring, shredding, separating, benefiting or mising aprior to submission to any of the approximations numbered R1 to R111	0	
	15 01 01	15-WASTE PACKAGING; ABSOBBENTS, WIPING CLOTHS, FRITEN MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Paper & Card Packaging	140.9					R12-fachange of wester for uubmission to any of the aperations numbered R1 to R11 (if there is no ather R code aperations; numbered R1 to R11 preliminary operations prior to recensing such as amongst during, dismontiary, and prior such as a summing primetry, dismontling, sorting, aperating, dying, schreiding, aperations, benefing or mising aperations numbered R1 to R11)		
	15 01 02	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Plastic Packaging	71.48					R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage)		
	15 01 04	15- WASTE PACKAGING; ABSOBENTS, WHING CLOTHS, FRITE NATENLAS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	Metallic Packaging	32.56					R12-Stochange of wester for submission to any of the operations numbered R1 to R11 (if there is no other R code apprendice, this coin include preliminary operations prior to receivery including gre- processing such as amongst processing such as amongst processing units of the processing operations, processing, compact, profile submission, benefiting or mising appendixing, animeter R1 to R11)		
	15 01 07	15-WASTE PACKAGING; ABSOBBENTS, WIPING CLOTHS, PATTEN MATTERIAS AND PROTECTIVE CONTINUE AND OTHERWISE SPECIFIED	Glass Packaging	107.38					R12-fachange of worstef for uubmission to any of the aperations numbered R1 to R11 off there is no ather R code aperations, numbered R1 to R11 prefinitiony operations prior to recovery ischaling pre- processing such as amongst abert, dimonitoria, sorting, and there, dimonitoria, sorting, and there, dimonitoria, sorting, and there, dimonitoria, sorting, and there are an applied to the sorting aperations, dimonitoria, there aperations numbered R1 to R111		

WASTE SUMMARY					Lic No:	W0026-03	Year	2017		
	16 01 07	16-WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Oil Filters	0.56				R12-facturings of wester for submission to any of the operations numbered R1 to R11 of there is no ather R code approprinte, the isan include preliminary operations prior to recensing such as amongst ablerts, dismantiage, sorting, contacting, driving, sub- recenting, driving, sub- relativing, driving, sub- stantiativing, driving, sub- stantiativing, driving, sub- driving, driving, sub- stantiativing, driving, sub- driving, driving, driving, sub- sub- sub- driving, driving, sub- driving, driving, driving, sub- driving, driving, driving, sub- driving, driving, driving, driving, sub- driving, driving, drives, driving, driving, driving, driving, dri		
	16 01 03	16-WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Recycled Car Tyres	13.44				R12-Sacharge of wester for submission to any of the operations numbered R1 or R11 of there is no other R code appropriate, this is no include preliminary operations prior to recensing such as amongst includent, diamantification, such precessing such as amongst anditoring, request, such as preliming, drying, shreading, anditoring, request, blending or mixing aperations, numbered R1 to R11J	0	
	16 05 05	16-WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Gases in pressure containers other than those mentioned in 160504	1.56				R12-fachange of wester for submission to any of the aperations numbered R1 to R11 of there is no ather R code appropriate, the ison include preliminary operations prior to recentry including gre- processing such as amongst analysis, compacting, appendixing, groups child appendixing, approximation approximations, approximation approximations, approximation approximations, approximation approximations, approximation approximations, approximation approximations, approximation approximations, approximation approximations, approximation approximations, approximation, approximation approximation, approximation, approximation approximation, approximation, approximation, approximation approximation, approximation, approximation, approximation approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximation, approximati		
	1761.67	27- CONSTRUCTION AND DEMONTON WASTES (INCLUDING EXCAVATED SOL FROM CONTAMINATED STRES)	Domestic C&D Waste	1849.74				A12 Exchange of neutral for chaminicians in any of the concretions numbered to R11 (if there is no other it code aperanism, this con include preliminary operations prior to recovery including pre- processing such as amongst including, compacting, changing, compacting, conditioning, repeating/in conditioning, repeating/in conditioning, repeating/in prior to submission to any of the aperations mumbered R1 to R11]	O	
	2001 01	20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRICTIONS	Carboard/Newspaper	128.8				R12 Exchange of wester for sub-intermediate to the R1 II of there is no other if et B to R1 I of there is no other if exclar preliminary operations prior to recentry including pre- processing such as amongst analysis, compacting, conducting, compacting, conducting, compacting, conducting, compacting, analysis, compacting, analysis, benefing or mixing aperations, numbered R1 to R11	0	

WASTE SUMMARY				-	Lic No:	W0026-03	ł	Year	2017		
	20 01 02	20-MUNICIPAL WASTES (HOUSERIOLD WASTE AND SIMILAR COMMERCIAL, INDUSTINIA AND INSTITUTIONAL WASTES) INCLUDING GERMANTES COLLECTED FRACTORS	Plate Glass/Recycled Glass	8.54					R12-facturings of wester for submission to any of the operations numbered R1 to R11 of there is no ather R code approprinte, the isan include preliminary operations prior to recensing such as amongst ablerts, dismantiage, sorting, contacting, driving, sub- recenting, driving, sub- relativing, driving, sub- stantiativing, driving, sub- stantiativing, driving, sub- driving, driving, sub- stantiativing, driving, sub- driving, driving, driving, sub- sub- sub- driving, driving, sub- driving, driving, driving, sub- driving, driving, driving, sub- driving, driving, driving, driving, sub- driving, driving, drives, driving, driving, driving, driving, dri	D	
	20 01 08	20-MUNICIPAL WASTES (HOUSERIOL WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEMANTELY COLLECTED FRACTIONS	Biodegradeable Kitchen and canteen waste	39.36					R12-facturage of worste for submission to any of the operations numbered R1 to R11 off there is no ather R code appropriate, the ison include preliminary operations prior to recentry lackdag gare- processing such as amongst analysis, compacting, challing, compacting, combining, compacting, combining, compacting, combining, compacting, combining, compacting, combining, proceedings, superating, blending or mixing aperations any dhe aperations numbered R1 to R11J		
	20 01 11	20-MUNICIPAL WASTES (HOUSENDI WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEMANTELY COLLECTED PRACTIONS	Textiles	35.22					R12-Sacharge of worste for submission to any of the operations numbered R1 to R11 of there is no other R code approprinte, the icon include preliminary operations prior to recentry including pre- processing such as amongst and there, dimmenting sorting, crashing, compacting, appendixing, dhrving, shoring, appendixing, blending or mising approx to Junits sort any of the operations numbered R1 to R13J	Ø	
	20 01 21	20-MUNICIPAL WASTES (HOUSENDE WASTE AND SMIRAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEMARTIEV COLLECTED FRACTIONS	Fluorescent Lamp	1.96					R12-Ascharge of wester for submission to any of the operations numbers R1 to R11 of there is no other R code grapmarise, the ison include preliminary operations prior to recentry including pre- processing such as amongst analysis, compacting, analysis, compacting, and there, dimanding sorting, analysis, benefiting or mising aperations, benefiting or mising aperations, any method and sorting.	0	
	20 61 27	20-MUNICIPAL WASTES (HOUSERICLI WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES] INCLUDING SEPARATELY COLLECTED FRACTIONS	paint, inks, adhesives and resins containing dangerous substances	17.84					R12-Ascharger of wester for submission to any of the operations numbered R1 to R11 (if here is no ather R code agregarizet, the ison include preliminary operations prior to receasing such as amongst alters, dismonting, sorting, crushing, compacting, anditioning, repeataging, including, repeataging, incol to submission to any of the operations Athenary R1 to R11J		

WASTE SUMMARY					Lic No:	W0026-03	 Year	2017		
	20 01 23	20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMURA COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES NEUTOCOMENTIAL WASTES COLLECTED FRACTIONS	Recycled Batteries	134				R12-Exchange of wester for submission to any of the operations numbered R1 to R11 of there is no other R code appropriate, the ison include preliminary operations prior to recenny including gre- processing such as amongst able-st, dismantling, sorting and there, dismantling, sorting approximation,	0	
	20 01 36	20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SMILRE COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SERVATELY COLLECTED FRACTIONS	WEEE	198.18				R12 Scharger of wester for submittion to any of the operations numbered to R11 (if here is no other R code appropriate, this con include preliminary operations pirot coccerns including pre- processing such as amongst charding, compacting, charding, compacting, cha	0	
	20 01 39	20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMURA COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEMARTELY COLLECTED FRACTIONS	Plastics	116.72				R12 Escharge of works for chambraics in any of the concretions numbered to R11 (if there is no other R code appropriate, the iso ninclude preliminary operations prior to recovery including pre- processing such as amongst inders, dimmating, sorting, crushing, compacting, conditioning, repeatings conditioning, repeatings conditioning, repeatings in ris submission to any of the aperations and R11		
	20 01 40	20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) NICLUDING SEMANTELY COLLECTED FRACTIONS	Aluminium Cans/Recyled Metal	174.98				R12. Sucharge of write for submission to any of the operations numbered R1 to R11 of there is no other R code approprinte, the const include preliminary operations prior to recenny such as amongst analysis, sorting, crashing, compacting, admittioning providaging, appendix, dismantifier, admittion apprications, providaging, appendix, blending or mising prior to submission any of the operations numbered R1 to R111	0	
	20 62 01	20- MUNICIPAL WASTES (HOUSERICLI WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Hedge Trimmings/Compost Material	2.66				A12 Escharge of wester for subvision to an of the subvision to an of the If there is no other it code appropriate, this is no subvis preliminary operations prior to recenser including pre- processing such as amongst enters, dismontibus, sorting, cruching, compacting, prior to subvision to any of the appretions, devision or maing prior to subvision to any of the appreciator, subvision to any of the	O	

VASTE SUMMARY	1				Lic No:	W0026-03	Year	2017		
	20 83 01	20-MUNICIPAL WASTES (HOUSERIOLI WASTE AND SIMILAR COMMERCIAL, INDUSTINIA AND INSTITUTIONA WASTEY INSTITUTIONA WASTEY INSTITUTIONA WASTEY INSTITUTIONA	Commercial Waste/Domestic Waste	2419.23				R12-fackange of waste for submission to any of the operations numbered R1 or R11 off there is no other R code approprinte, this coin include preliminary operations prior to recensery including gave processing such as amenget during, dismosting, sorting, and there, dismosting, sorting, and there, dismosting, sorting, and there, dismosting, sorting, applications, dismosting, theredding, applications, dismosting, theredding, applications, animeter R1 to R11J	o	
	20 03 03	20-MUNICIPAL WASTES (HOUSERIOL WASTE AND SIMURA COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTER INSTITUTIONAL WASTER COLLECTED FRACTIONS	Community Clean Up/Street Sweepings	59.64				R12-Sicharaye of wroster for submission to any cell the operations numbered R1 to R11 off there is no other R code aperlamine, this can include preliminary operations prior to recensing such as amenget and there, diamontating, sorting, and there, diamontating, sorting, and there, diamontating, sorting, and there, diamontating, sorting, and there are an another and the preliming, theredding or mixing aperations, numbered R1 to R11)	0	
	20 03 07	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Buliky Waste/Mattress/Gas Cyclindors	146.86				D15-Storage pending any of the operations numbered D1 to D14	o	

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

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

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?

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
				Closed Landfill/Domestic Waste deposit area for offsite treatment and disposal

Table 3 General information-Landfill only

	Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public Operated		Predicted date to cease landfilling	Licence permits asbestos	Is there a separate cell for asbestos?		Total disposal area occupied by waste	Lined disposal area occupied by waste		Comments on liner type
											SELECT UNIT	SELECT UNIT	SELECT UNIT	
ſ			Nov-12	No	Public	Non Hazardous	Closed Landfill	No	No	No				

N/A	
Yes	
Yes	
Yes	
No	

	1				Lic No:	W0026-03		Year	2017			
Fable 4 Environme	ntal monitoring-landfill only	Landfill Manual-Monitoring Stan	dards									
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			Were emission limit values agreed with	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments				
Yes	Yes	Yes	Yes	Yes	No	No	Yes	Topography is considered the same as 2013				
	Manual linked above for relevant Landfill	Directive monitoring standards							-			
Table 5 Capping-La	andfill only						1					
	Area with temporary cap SELECT UNIT	Area with final cap to LD		Area with waste that should be permanently capped to date under								
SELECT UNIT	SELECTUNIT	Standard m2 ha, a	Area capped other	licence	What materials are used in the cap	Comments	-					
All Areas Capped	0	126,740 m ²	Entire landfill capped		Concrete	All areas Permantly						
please note this includes daily cover area												
		1				capped						
Table 6 Leachate-L Is leachate from your site						Capped Yes No	I					
Table 6 Leachate-L is leachate from your site is leachate released to si Volume of leachate in	andfill only e treated in a Waste Water Treatment Plant urface water? If yes please complete leach		Leachate (NH4) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum		Yes	Comments]				
Table 6 Leachate-L is leachate from your site is leachate released to si Volume of leachate in	andfill only e treated in a Waste Water Treatment Plant urface water? If yes please complete leach	te mass load information below				Yes No Specify type of leachate						
Table 6 Leachate-L Is leachate from your site Is leachate released to s Volume of leachate in reporting year(m3)	andfill only treated in a Waste Water Treatment Plant urface water? If yes please complete leach Leachate (BOD) mass load (kg/annum)	ate mass load information below Leachate (COD) mass load (kg/annum) 909.82	(kg/annum) 611.37	mass load kg/annum 914.3	Leachate treatment on-site None	Yes No Specify type of leachate treatment Off Site Waste Water Treatment]				

Gas Captured&Treated			Was surface emissions monitoring performed		
by LFG System m3	Power generated (MW / KWh)	Used on-site or to national grid		Comments	
1 320 344	No	No	No	Gas is flared off	

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Guidance to completing the PRTR workbook



PRTR Returns Workbook

REFERENCE YEAR 2017

1. FACILITY IDENTIFICATION

Parent Company Name	Laois County Council
Facility Name	Kyletalesha Landfill
PRTR Identification Number	W0026
Licence Number	W0026-03

Classes of Activity No. class_r

No. class_name - Refer to PRTR class activities below

	Clonsoughy
Address 2	Kyleclonhobert
Address 3	
Address 4	
	Laois
Country	
Coordinates of Location	
River Basin District	IESE
NACE Code	
	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	kfarrell@laoiscoco.ie
AER Returns Contact Position	Landfill Manager
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	087 7999945
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	3
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(d)	Landfills
5(c)	Installations for the disposal of non-hazardous waste
50.1	General
3. SOLVENTS REGULATIONS (S.I. No. 543 of 20	02)
Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being	
used ?	
4. WASTE IMPORTED/ACCEPTED ONTO SITE	Guidance on waste imported/accepted onto site

Do you import/accept waste onto your site for onsite treatment (either recovery or disposal activities) ?

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

-	SECTION A . SECTOR SPECIFIC PRIK POL										
		RELEASES TO AIR				Please enter all quantities in this section in KGs					
	POLLUTANT				METHOD		QUANTITY				
					Method Used	Flare					
	No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
					Gas Sim 2.5 Statistics &						
()3	Carbon dioxide (CO2)	С	OTH	Site data	12653.275536	223678.5408	0.0	211025.265264		
					Gas Sim 2.5 Statistics &						
()1	Methane (CH4)	С	OTH	Site data	5399.68	581838.4	0.0	576438.72		

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2017_A01.xls | Return Year : 2017 |

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

		RELEASES TO AIR	Please enter all quantities in this section in KGs										
- [POLLUTANT				METHOD	QUANTITY							
- [Method Used								
	No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year				
	15	Chlorofluorocarbons (CFCs)	С	OTH	Gas Sim 2.5 PI Report	0.0	2.15	5 0.0	2.15				
	14	Hydrochlorofluorocarbons (HCFCs)	С	OTH	Gas Sim 2.5 PI Report	0.0	2.06	3 0.0	2.06				
		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete butt	on										

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR				Please enter all quantities in this section in KGs										
	POLLUTANT			N	IETHOD	QUANTITY								
					Method Used									
	Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Acci	dental) KG/Year	F (Fugitive) KG/Year				
						0.0)	0.0	0.0	0.0	í.			
		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete butto	n											

Additional Data Requested from Landfill operators For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:											
	Kyletalesha Landfill										
Please enter summary data on the											
quantities of methane flared and / or											
utilised			Met	hod Used							
	T (Tatal) by Diana			Designation or	Facility Total Capacity						
	T (Total) kg/Year	M/C/E	Method Code	Description	m3 per hour						
Total estimated methane generation (as per											
site model)	851822.4	С	OTH	Gassim 2.5	N/A						
Methane flared	269984.0	M	OTH	Site Data		(Total Flaring Capacity)					
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)					
Net methane emission (as reported in Section											
A above)	581838.4	С	ОТН	Gassim 2.5 Statistics - Site	N/A						

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4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2017_A01.xls | Return Year : 2017 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only con								only concerns Releases from your faci		
	RELEASES TO WATERS				Please enter all quar					
POLLUTANT			QUANTITY							
				Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0.0	0.0	0.0	0.0	

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

	Please enter all quantities in this section in KGs							
PO				QUANTITY				
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

		RELEASES TO WATERS	Please enter all quantities in this section in KGs							
POLLUTANT						QUANTITY				
				Method Used						
	Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
						0.0	0.0	0.0	0.0	

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2017_A01.xls | Return Y 29/03/2018 12:30

SECTION A : PRTR POLLUTANTS

OFF	SITE TRANSFER OF POLLUTANTS DESTINED FO	Please enter all quantities in this section in KGs							
POLLUTANT			MET	THOD	QUANTITY				
			Method Used						
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
					0	.0	0.0 0.0	0.0	

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

OFFSITE TRAN	Please enter all quantities in this section in KGs								
POLLUTANT		METHOD			QUANTITY				
			N	Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) K	G/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0026 | Facility Name : Kyletalesha Landfill | Filename : W0026_2017_A01.xls | Return Year : 2017 |

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SECTION A : PRTR POLLUTANTS

	RELEASES TO LAND	Please enter all quantities	in this section in KGs	•			
POLLUTANT		METHOD					QUANTITY
		Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0		0.0 0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES TO LAND	Please enter all quantities	5				
POLLUTANT			METHO	D			QUANTITY
			Met	hod Used			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
					0.0	·	0.0 0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

			Tiedde enter	all quantities on this sheet in Tonnes					Haz wasse : Name and			
			Quantity (Tonnes per Year)		Waste		Method Used		Licence/Permit No of Next Destination Facility <u>Non Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destina i.e. Final Recovery / Disposal S (HAZARDOUS WASTE ONLY
ransfer Destination	European Waste Code	Hazardous		Description of Waste	Treatment Operation	M/C/F	Method Used	Location of Treatment				
ransier Desunation	Code	Tiazardoua	<u>'</u>	Description of Waste	Operation	INCOL	Inteniod Osed	rreatment			Enva Ltd,W0184-	Enva Ltd,Clonminam
ithin the Country	13 02 04	Yes	13.36	mineral-based chlorinated engine, gear and lubricating oils	R9	м	Weighed	Offsite in Ireland	Enva Ireland Limited,W0184- 02	Clonminam Industrial Estate ,Portlaoise ,County Laois ,Laois,Ireland Cappincur,,Tullamore,Co	01,Clonminam Industrial Estate,Portlaoise,Laois,.,Irela nd	Industrial Estate,Portlaoise,Laois,Ire d
ithin the Country	15 01 01	No	140.9	paper and cardboard packaging	R12	М	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland		
thin the Country	15 01 02	No	71.48	plastic packaging	R12	м	Weighed	Offsite in Ireland	AES Ireland,W0104-02 Hammond Lane Metal Co.	Cappincur,.,Tullamore,Co Offaly,Ireland Hammond Lane Metal Co.		
thin the Country	15 01 04	No	32.56	metallic packaging	R12	м	Weighed	Offsite in Ireland		, Dublin 4 ,.,Ireland Unit 4 Osberstown Industrial		
ithin the Country	15 01 07	No	107.38	glass packaging	R5	м	Weighed	Offsite in Ireland	Rehab Glassco Limited,W0279-02	Park ,Caragh Road ,Naas Co Kildare,,Ireland Cappincur,,Tullamore,Co		
ithin the Country	16 01 03	No	13.44	end-of-life tyres	R3	М	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland	RD Recycling, Ovam	
Other Countries	16 01 07	Yes	0.56	oil filters mixture of concrete, bricks, tiles and	R12	м	Weighed	Abroad	Enva Ireland Limited,W0184- 02	Clonminam Industrial Estate ,Portlaoise ,County Laois ,Laois,Ireland	Approved,Centrum	Centrum Zuid,3017,Houthalen,B35 Belgium
ithin the Country	17 01 07	No	1849.74	ceramics other than those mentioned in 17 01 06 Jandfill leachate other than those mentioned	R12	м	Weighed	Offsite in Ireland	AES Ireland,W0104-02 Portlaoise Wastewater	Cappincur,.,Tullamore,Co Offaly,Ireland Ridge Road,.,Portlaoise,Co		
	19 07 03	No		in 19 07 02	D8	м	Weighed	Offsite in Ireland	Treatment Plant,D0001-01	Laois,Ireland Cappincur,.,Tullamore,Co		
ithin the Country	20 01 01	No	128.8	paper and cardboard	R12	м	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland Bord na Móna (Kilberry), Kilberry, Athy Co		
ithin the Country	20 01 08	No	39.36	biodegradable kitchen and canteen waste	R3	м	Weighed	Offsite in Ireland	Bord Na Mona,W0198-01	Kildare,?,Ireland 504 Grants Drive,Greenogue Business Park,Greenogue Industrial		
ithin the Country	20 01 11	No	35.22	textiles	R12	м	Weighed	Offsite in Ireland	Textile Recycling Limited,.	Estate, Dublin, Ireland	Enva Ltd,W0184- 01 Cloominam Industrial	Enva Ltd,Clonminam
ithin the Country	20 01 21	Yes	1.98	fluorescent tubes and other mercury- containing waste	R12	м	Weighed	Offsite in Ireland	Enva Ireland Limited,W0184- 02		Estate,Portlaoise,Laois,,Irela nd Recyfuel S.A,Belgian Authorities Permitted,Zoning	
Other Countries	20 01 27	Yes	17.84	paint, inks, adhesives and resins containing dangerous substances batteries and accumulators included in 16.06	R12	м	Weighed	Abroad	Enva Ireland Limited,W0184- 02	Clonminam Industrial Estate ,Portlaoise ,County Laois ,Laois,Ireland	Industriel d?Ehein ,B-4480, ENGIS BELGIUM,B- 4480,Belgium KMK Metals,W0113-	Zoning Industriel d?Ehei 4480, ENGIS BELGIUM, 4480,Belgium
ithin the Country	20 01 33	Yes	1.34	01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	R12	м	Weighed	Offsite in Ireland	KMK Metals Recycling Limited,W0113-04	Cappincur Industrial Estate ,Daingean Road Tullamore Co Offaly,,Ireland	03,Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Irelan d	Cappincur Industrial Estate,Daingean Road,Tullamore,Offaly,Ir d
ithin the Country	20 01 36	No	198.18	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R12	м	Weighed	Offsite in Ireland	KMK Metals Recycling Limited,W0113-04	Cappincur Industrial Estate ,Daingean Road Tullamore Co Offaly,,Ireland		
ithin the Country		No	116.72		R12	м	Weighed	Offsite in Ireland	AES Ireland,W0104-02 Hammond Lane Metal Co.	Cappincur,.,Tullamore,Co Offaly,Ireland Hammond Lane Metal Co.		
ithin the Country	20 01 40	No	174.98	metals	R12	м	Weighed	Offsite in Ireland	(Pigeon House),WFP-DC-09-	(Pigeon House), Ringsend , Dublin 4 ,., Ireland Bord na Móna (Kilberry) ,		
ithin the Country	20 02 01	No	0.66	biodegradable waste mixed municipal waste - including waste	R3	м	Weighed	Offsite in Ireland	Bord Na Mona,W0198-01	Kilberry, Athy Co Kildare,?,Ireland		
thin the Country	20 03 01	No	2419.23	brought to the domestic tipping area by householders, illegal dumping in bins at the CA site and illegal dumping collected by litter wardens	R12	м	Weighed	Offsite in Ireland	Bord na Mona Public Limited Company/Drehid Waste Management Facility,W0201- 03	Kildare,,Ireland Advanced Environmental Solutions (Ireland) Ltd Kyletalesha & Kyleclonhobert		
ithin the Country	20 03 03	No	59.64	street-cleaning residues	R12	м	Weighed	Offsite in Ireland	AES - Portlaoise ,W0194-02	,Portlaoise County Laois,,Ireland Cappincur,,Tullamore,Co		
ithin the Country	20 03 07	No	135.2	bulky waste gases in pressure containers other than	D5	м	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland Cappincur,, Tullamore, Co		
ithin the Country	16 05 05	No	1.56		R12	М	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland Cappincur,, Tullamore, Co		
ithin the Country	20 03 07	No	11.66	Mattresses	R12	м	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland Cappincur, Tullamore, Co		
thin the Country	20 01 02	No	8.54	glass	R12	М	Weighed	Offsite in Ireland	AES Ireland,W0104-02	Offaly, Ireland		

Link to previous years waste data Link to previous years waste summary data & percentage change Link to Waste Guidance