Facility Information Summary	
AER Reporting Year	2016
Licence Register Number	W0014
Name of site	Silliot Hill IWMF
Site Location	Kilcullen, Co. Kildare
NACE Code	3821
Class/Classes of Activity	Third Schedule WMA: Class 4, 6, 7, 11, 12, 13. Fourth Schedule: Class 2, 3, 4, 9, 10, 11, 13.
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** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

The site comprises a WTS, Civic Amenity Site and a closed Landfill. The In-Vessel Composting Facility and the Sludge Treatment Facility have not been in operation for several years. Oxigen Environmental were responsible for the operation of the WTS and the Civic Amenity Site from the 8th December 2011 to 8th September 2016, following the awarding of a concession contract. AES Ireland Ltd are have been operating the CA site and waste transfer station since the 8th of September 2016. Kildare County Council has no involvement in the day to day operations of these but retains responsibility for the Waste Licence. Operation of the WTS had ceased from late October 2015 to 8th September 2016. The Council is preparing a new tender for the operation of the WTS and Civic Amenity Site. There is some localised impact on groundwater from the unlined part of the landfill which is identified at groundwater monitoring point BH 4-07. A Groundwater Risk Assessment Report was submitted to the Agency in 2014 in fulfilment of the requirement under the Technical Amendment issued in January 2013. The RFI issued by the Agency was completed and submitted in October 2015. There is no discharge from the site to surface water and no impact to surface water bodies from the site. There were exceedences for gas trigger levels along the southern boundary of the site during each of the monthly monitoring events. Kildare County Council is continuing the investigations of landfill gas migration and has installed continuous gas monitors on two perimeter monitoring points on the Southeastern boundary of the site. This information is being used to assess whether further gas management infrastructure is required.

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.

_____	_____
Signature Group/Facility manager (or nominated, suitably qualified and experienced deputy)	Date

AIR-summary template	Lic No:	W0014	Year	2016

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	Yes	

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
Flare	volumetric flow	Annual	3000	SELECT	303	Nm3/hour	yes	SELECT		
Flare	Carbon monoxide (CO)	Annual	50	SELECT	23.77	mg/Nm3	yes	EN 14385:2004	42.18	
Flare	Nitrogen oxides (NOx/NO2)	Annual	150	SELECT	79.35	mg/Nm3	yes	EN 14792:2005	140.8	
Flare	Volatile organic compounds (as TOC)	Annual			4.31	mgC/Nm3			7.65	
Flare	TA Luft organic substances class 1	Annual	150		0.9	mg/Nm3	yes	EN 13649:2001	1.6	
Flare	Sulphur oxides (SOx/SO2)	Annual			10.09	mg/Nm3	yes		17.9	
PM1	PM10	Annual			11	µg/Nm3	yes			
PM2	PM10	Annual			12	µg/Nm3	yes			
PM3	PM10	Annual			10	µg/Nm3	yes			

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

AIR-summary template	Lic No:	W0014	Year	2016

Continuous Monitoring

4	Does your site carry out continuous air emissions monitoring?	SELECT	
	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	SELECT	
6	Do you have a proactive service agreement for each piece of continuous monitoring equipment?	SELECT	
7	Did your site experience any abatement system bypasses? If yes please detail them in table A3 below	SELECT	

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
	SELECT			SELECT	SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					
	SELECT				SELECT					

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 template	Lic No:	W0014	Year	2016

Solvent use and management on site

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

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

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	Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g.	Solvents destroyed onsite through	Total emission of Solvent to air (kg)
							Total	

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0014 Year 2016

			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	
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	SELECT	

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
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	
	SELECT	SELECT	SELECT			SELECT		SELECT	SELECT	

*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)

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

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 therof[Note 2]	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Method of analysis	Procedural reference source	Procedural reference standard number	Annual mass load (kg)	Comments
	SELECT	SELECT	SELECT		SELECT		SELECT		SELECT	SELECT	SELECT	SELECT			

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

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

AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) Lic No: W0014 Year 2016

Continuous monitoring

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

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**	SELECT	
7	Do you have a proactive service contract for each piece of continuous monitoring equipment on site?	SELECT	
8	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

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
	SELECT	SELECT		SELECT	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 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: W0014 Year 2016

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)	SELECT	
2	Please provide integrity testing frequency period	Other (please specify)	
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)	SELECT	
4	How many bunds are on site?		
5	How many of these bunds have been tested within the required test schedule?		
6	How many mobile bunds are on site?		
7	Are the mobile bunds included in the bund test schedule?	SELECT	
8	How many of these mobile bunds have been tested within the required test schedule?		
9	How many sumps on site are included in the integrity test schedule?		
10	How many of these sumps are integrity tested within the test schedule?		
	Please list any sump integrity failures in table B1		
11	Do all sumps and chambers have high level liquid alarms?	SELECT	
12	If yes to Q11 are these failsafe systems included in a maintenance and testing programme?	SELECT	
13	Is the Fire Water Retention Pond included in your integrity test programme?	SELECT	

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)
	SELECT					SELECT			SELECT	SELECT		SELECT		
	SELECT					SELECT			SELECT	SELECT		SELECT		

* 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 with licence requirements and are all structures tested in line with BS8007/EPA Guidance?	bunding and storage guidelines	SELECT	
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 underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test and all which have not been tested withing the integrity test period as specified**	SELECT	
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)

Table B2: Summary 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:	W0014	Year	2016

			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	yes	Localised GW contamination is showing a downward trend. A Groundwater Risk Assessment Report was submitted in 2014 and further information was submitted in 2015	
5	Is the contamination related to operations at the facility (either current and/or historic)	yes		
6	Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	yes	Landfill capping. Leachate extraction from the unlined area	
7	Please specify the proposed time frame for the remediation strategy	N/A	Ongoing	
8	Is there a licence condition to carry out/update ELRA for the site?	no		
9	Has any type of risk assesment been carried out for the site?	yes	RA submitted in 2008. Revised RA submitted in 2014 and RFI submission completed and submitted in 2015	
10	Has a Conceptual Site Model been developed for the site?	yes	Model was updated as part of revised Risk Assessment	
11	Have potential receptors been identified on and off site?	yes		
12	Is there evidence that contamination is migrating offsite?	yes	Localised offsite contamination at BH 4-07	Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
2016	PW2-09	Electrical Conductivity	Conductivity probe	Quarterly	680	651	SELECT	1875		no
2016	PW2-09	Ammonia	Konelab	Quarterly	0.09	0.04	mg/l	0.175		no
2016	PW2-09	Iron	ICP-MS	Quarterly	<10	<10	ug/l	200		no
2016	PW2-09	Potassium	ICP-MS	Quarterly	1.38	1.08	mg/l	5		no
2016	PW2-09	Sodium	ICP-MS	Quarterly	19.3	15.98	mg/l	150		no

Groundwater/Soil monitoring template					Lic No:	W0014		Year	2016	
2016	PW2-09	Chloride	Konelab	Quarterly	25.1	21.08	mg/l	187.5		no
2016	PW2-09	TON	Konelab	Quarterly	10.2	6.38	mg/l			no
2016	PW2-09	Phenols		Quarterly	<5	<0.5	ug/l			no
2016	PW2-09	Total Coliforms	Filtration	Quarterly	5	2.5	SELECT	<1		no
2016	PW2-09	Faecal Colifoms	Filtration	Quarterly	1	<1	SELECT	<1		no
2016	PW2-09	TOC		Quarterly	2.43	2.04	mg/l			no
2016	BH9D	Electrical Conductivity	Conductivity probe	Quarterly	1216	1194		1875		no
2016	BH9D	Ammonia	Konelab	Quarterly	0.006	<0.005	mg/l	0.175		no
2016	BH9D	Iron	ICP-MS	Quarterly	641	332	ug/l	200		no
2016	BH9D	Potassium	ICP-MS	Quarterly	10	9.61	mg/l	5		no
2016	BH9D	Sodium	ICP-MS	Quarterly	91.3	82	mg/l	150		no
2016	BH9D	Chloride	Konelab	Quarterly	154	88.8	mg/l	187.5		no
2016	BH9D	TON	Konelab	Quarterly	7.08	5.29	mg/l			no
2016	BH9D	Phenols		Quarterly	<0.5	<0.5	ug/l			no
2016	BH9D	Total Coliforms	Filtration	Quarterly	289	176		<1		no
2016	BH9D	Faecal Colifoms	Filtration	Quarterly	9	7.5		<1		no
2016	BH9D	TOC		Quarterly			mg/l			no

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
2016	BH3	Electrical Conductivity	Conductivity probe	Quarterly	781	739	SELECT	1875		SELECT
2016	BH3	Ammonia	Konelab	Quarterly	4.25	2.06	mg/l	0.175		SELECT
2016	BH3	Iron	ICP-MS	Quarterly	41814	22163	ug/l	200		SELECT
2016	BH3	Potassium	ICP-MS	Quarterly	1	0.91	mg/l	5		SELECT
2016	BH3	Sodium	ICP-MS	Quarterly	10	9.46	mg/l	150		SELECT
2016	BH3	Chloride	Konelab	Quarterly	24.2	21.87	mg/l	187.5		SELECT
2016	BH3	TON	Konelab	Quarterly	1.09	0.9	mg/l			SELECT
2016	BH3	Phenols		Quarterly	<0.5	<0.5	ug/l			SELECT
2016	BH3	Total Coliforms	Filtration	Quarterly	0	0	SELECT	<1		SELECT
2016	BH3	Faecal Colifoms	Filtration	Quarterly	<1	<1	SELECT	<1		SELECT
2016	BH3	TOC		Quarterly	2.26	2.01	mg/l			SELECT
2016	BH4-07	Electrical Conductivity	Conductivity probe	Quarterly	2350	2325	SELECT	1875		SELECT
2016	BH4-07	Ammonia	Konelab	Quarterly	198	154	mg/l	0.175		SELECT
2016	BH4-07	Iron	ICP-MS	Quarterly	15189	10890	ug/l	200		SELECT

Groundwater/Soil monitoring template					Lic No:	W0014		Year	2016	
2016	BH4-07	Potassium	ICP-MS	Quarterly	80	75.6	mg/l	5		SELECT
2016	BH4-07	Sodium	ICP-MS	Quarterly	251	214	mg/l	150		SELECT
2016	BH4-07	Chloride	Konelab	Quarterly	221	199	mg/l	187.5		SELECT
2016	BH4-07	TON	Konelab	Quarterly	1.34	0.75	mg/l			SELECT
2016	BH4-07	Phenols		Quarterly	<1.5	<1.5	ug/l			SELECT
2016	BH4-07	Total Coliforms	Filtration	Quarterly	0	0	SELECT	<1		SELECT
2016	BH4-07	Faecal Colifoms	Filtration	Quarterly	<10	<10	SELECT	<1		SELECT
2016	BH4-07	TOC		Quarterly	36.5	33.6	SELECT			SELECT

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

Groundwater monitoring template

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

Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013).

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

Surface water EQS | Groundwater regulations GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards | Interim Guideline Values (IGV)

Groundwater/Soil monitoring template Lic No: W0014 Year 2016

Table 3: Soil results

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

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

Environmental Liabilities template	Lic No:	W0014	Year	2016

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

			Commentary
1	ELRA initial agreement status	SELECT	
2	ELRA review status	SELECT	
3	Amount of Financial Provision cover required as determined by the latest ELRA	Specify	
4	Financial Provision for ELRA status	SELECT	
5	Financial Provision for ELRA - amount of cover	Specify	
6	Financial Provision for ELRA - type	SELECT	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	SELECT	
9	Closure plan review status	SELECT	
10	Financial Provision for Closure status	SELECT	
11	Financial Provision for Closure - amount of cover	Specify	
12	Financial Provision for Closure - type	SELECT	
13	Financial provision for Closure expiry date	Enter expiry date	

Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0014 Year 2016

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
Reduction of emissions to Air	Procurement of low calorific,low volume enclosed flare	50	Advertisement of tender has been postponed pending further investigation of the gas field to ensure correct sizing of the flaring requirements	Section Head	Increased compliance with licence conditions
Groundwater protection	Implementation of reccomendations of Groundwater Risk Assessment Review	90	Report of GW RA review was submitted in 2014. Response to RFI was submitted in 2015	Section Head	Increased compliance with licence conditions
Additional improvements	Minimisation of gas migration	90	Continuous gas monitors have been installed on 2 perimeter monitoring wells to provide more detailed information on the migration issue. Additional perimeter wells have also been installed along the Southern boundary of the site and connected to the landfill gas extraction system. Monitoring of emissions from these wells and the continuous online monitors is ongoing to determine if a reduction in landfill gas migration has been achieved.	Section Head	Increased compliance with licence conditions

Noise monitoring summary report	Lic No:	W0014	Year	2016

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)?
10/11/2016	30 mins	N 1	N/A	61.2	48.2	65.7	74.5	No	SELECT	Traffic on R448	Yes
10/11/2016	30 mins	N 2	N/A	53.1	48.5	56	62.5	No		Traffic on R448	Yes
10/11/2016	30 mins	N 3	N/A	49.1	47.4	50.7	62.2	No		Traffic noise, background from Kilsaran & SH	Yes
	30 mins	N 4	N/A					No			
21/10/2016	30 mins	N 5	N/A	49.2	39	52.6	68.9	No		Traffic on Carnalway Rd	Yes
09/11/2016	30 mins	N 6	N/A	52.9	48.2	55.6	63	No		Traffic on R448	Yes
21/10/2016	30 mins	N 7	N/A	55.8	43.1	60.2	73	No		Traffic on R448 & Carnalway Rd	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:	W0014	Year	2016

			Additional information
1	When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below	2009	
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	SEAI - Large Industry Energy Network (LIEN)	No	
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	N/A

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)	175000	175000		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	12000	12000		
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	1000	1000		0		1000	
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)					
Non-Hazardous (Tonnes)					

Resource Usage/Energy efficiency summary Lic No: W0014 Year 2016

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: W0014 Year 2016

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 information

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

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

*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
27/01/2016	Trigger level reached	G103, G104d, G105	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
25/02/2016	Trigger level reached	G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
14/03/2016	Trigger level reached	G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
13/04/2016	Trigger level reached	G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
10/05/2016	Trigger level reached	G103, G104d, G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
28/06/2016	Trigger level reached	G103, G104d, G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
19/07/2016	Trigger level reached	G104d, G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
25/08/2016	Trigger level reached	G104d, G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
26/09/2016	Trigger level reached	G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
24/10/2016	Trigger level reached	G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
21/11/2016	Trigger level reached	G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High
12/12/2016	Trigger level reached	G103, G104d, G105, G108	2. Limited	Ground	Operational controls		Normal activities	EPA	Recurring	Gas field management	Procurement c	Ongoing		High

Total number of incidents current year	12
Total number of incidents previous year	13

Complaints and Incidents summary template	Lic No:	W0014	Year	2016

% reduction/ increase	8%

WASTE SUMMARY	Lic No:	W0014	Year	2016
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	SELECT	
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 -

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?	N/A	
8	Do you maintain a sludge register on site?	N/A	

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
										SELECT UNIT	SELECT UNIT	SELECT UNIT
Cell 8	1984	2001	No	Public	Non Hazardous	N/A	No	No	No	103000	24000	79000

WASTE SUMMARY

Lic No: W0014 Year 2016

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
	Yes	Yes	Yes	No	No	Yes		

.+ 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
SELECT UNIT	SELECT UNIT					
0		24000	79000			

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

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
5771	917.6	2489	11523	8957	Yes	Methane Stripping	

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
299173	0	N/A	Yes	

Comments on liner type