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<a href="#"><u>guidance document link</u></a>	cells that contain underlined text c
Table heading *	table headings followed by a symb
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Please note an interpretation of results is still required. This should be e  
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:ain a dropdown menu click to select one option from the list

:lick to access relevant guidance documents for this section

:ol have an associated footnote or instructions

:ie top right corner contain a comment box with further instructions or clarification

ntered in the additional information/comments boxes within the templates. Please size these boxes  
se include an appendix to the AER template and merge it as part of the AER PDF document. The excel  
ately so that all text is readable before it is converted to PDF document.

Facility Information Summary	
AER Reporting Year	2016
Licence Register Number	W0211-011
Name of site	ERAS ECO Ltd
Site Location	Foxhole, Youghal, Co. Cork
NACE Code	3821
Class/Classes of Activity	Principal class 4.2
National Grid Reference (6E, 6 N)	2097E, 7977N
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 <b>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.</b>	facility accepts non hazardous Commercial and Industrial wastes and non hazardous industrial and municipal slud

**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.

Michael Dee	17/08/17
Signature	Date
Group/Facility manager	
(or nominated, suitably qualified and experienced deputy)	

**AIR-summary template** Lic No: W0211-011 Year 2016

Answer all questions and complete all tables where relevant

1 Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If **you do not have** licenced emissions and **do not complete a solvent management plan** (table A4 and A5) you do not need to complete the tables

Yes	Additional information
-----	------------------------

**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 thereof	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence limit	Method of analysis	Annual mass load (kg)	Comments - reason for change in % mass load from previous year if applicable
A1	Nitrogen oxides (NOx/NO2)	Quarterly	250	100 % of values < ELV	223.7	mgC/Nm3	yes	EN 15058:2004	11451	Increase in operations, + increase in
A1	Sulphur oxides (SOx/SO2)	Quarterly	N/A	100 % of values < ELV	152.1	mgC/Nm3	yes	EN 15058:2004	5150	Increase in operations, + increase in
A1	Total Particulates	Quarterly	20	100 % of values < ELV	6.4	mgC/Nm3	yes	OTH	262	
A1	Carbon monoxide (CO)	Quarterly	150	100 % of values < ELV	15.3	mgC/Nm3	yes	EN 15058:2004	248	Increase in operations,
A2	Ammonia (NH3)	Biannually	N/A	100 % of values < ELV	8	mgC/Nm3	yes	EN 13649:2001	0.000004752	Increase in operations,
A2	Total Organic Carbon (as C)	Biannually	N/A	100 % of values < ELV	13.1	mgC/Nm3	yes	OTH	0.00001617	Increase in operations,
A2	Hydrogen sulphide	Biannually	N/A	100 % of values < ELV	0.45	mgC/Nm3	yes	EN 13649:2001	0.000022704	Increase in operations, + increase in
A2	Mercaptans	Biannually	N/A	100 % of values < ELV	0.5	mgC/Nm3	yes	OTH	0.0000006	Increase in operations, + increase in

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

<b>AIR-summary template</b>	Lic No: W0211-011	Year: 2016
<b>Continuous Monitoring</b>		

4	Does your site carry out continuous air emissions monitoring? If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)	No	
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 thereof	Averaging Period	Compliance Criteria	Units of measurement	Annual Emission	Annual maximum	Monitoring Equipment downtime (hours)	Number of ELV exceedences in current reporting year	Comments

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

**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

<b>Table A4: Solvent Management Plan Summary</b>		<a href="#">Solvent regulations</a> Please refer to linked solvent regulations to complete table 5 and 6			
<b>Total VOC Emission limit value</b>					
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision thereof	Compliance
					SELECT
					SELECT

<b>Table A5: Solvent Mass Balance summary</b>								
	(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: W0211-011 Year 2016

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

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**

No	No emissions to wastewater. There is emissions to sewer
Yes	

**Table W1 Storm water monitoring**

Location reference	Location relative to site activities	PRTR Parameter	Licensed Parameter	Monitoring date	ELV or trigger level in licence or any revision thereof*	Licence Compliance criteria	Measured value	Unit of measurement	Compliant with licence	Comments
	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)**

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

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

SELECT	Additional information
SELECT	

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

Emission reference no:	Emission released to	Parameter/ Substance>Note 1	Type of sample	Frequency of monitoring	Averaging period	ELV or trigger values in licence or any revision thereof>Note 2	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				
SE1	Wastewater/Sewer	pH	composite	weekly	24 hour	<6 or >8.5	No pH value shall deviate from the specified range	7.2	pH units	yes	pH Meter (Electrode)	APHA / AWWA Standard 4500-H-B	APHA-4500-H-B	N/A	<ELV
SE1	Wastewater/Sewer	Ammonia (as N)	composite	weekly	24 hour	0.5	No flow value shall exceed the specific limit	0.4	mg/L	yes	tion + Spectrophotometry	APHA / AWWA Standard 4500-NH3-D	APHA-4500-NH3-D	0.326	<ELV
SE1	Wastewater/Sewer	Suspended Solids	composite	weekly	24 hour	35	No flow value shall exceed the specific limit	13	mg/L	yes	ductivity Meter (Electrode)	APHA / AWWA Standard 2540-D	APHA-2540-D	1.56	<ELV
SE1	Wastewater/Sewer	BOD	composite	monthly	24 hour	10	No flow value shall exceed the specific limit	7.1	mg/L	yes	tion + Spectrophotometry	APHA / AWWA Standard 5120-B	APHA-5120-B	0.21	<ELV
SE1	Wastewater/Sewer	COD	composite	weekly	24 hour	125	No flow value shall exceed the specific limit	14	mg/L	yes	tion + Spectrophotometry	APHA / AWWA Standard 5120-D	APHA-5120-D	0.955	<ELV
SE1	Wastewater/Sewer	Total nitrogen	composite	Quarterly	24 hour	10	No flow value shall exceed the specific limit	3.5	mg/L	yes	tion + Spectrophotometry	APHA / AWWA Standard 4500-N-C	APHA-4500-N-C	0.237	<ELV
SE1	Wastewater/Sewer	Semi-volatiles	composite	Quarterly	24 hour	50	No flow value shall exceed the specific limit	0.001	mg/L	yes	C (Gas Chromatography)	APHA / AWWA Standard GC-FID	GC-FID	0.05	<ELV
SE1	Wastewater/Sewer	volatile organic compounds (as TOC)	composite	Quarterly	24 hour	50	No flow value shall exceed the specific limit	0.001	mg/L	yes	C (Gas Chromatography)	APHA / AWWA Standard GC-FID	GC-FID	0.05	<ELV
SE1	Wastewater/Sewer	Sulphate	composite	Quarterly	24 hour	100	No flow value shall exceed the specific limit	7.33	mg/L	yes	ophotometry (Colorimetry)	APHA / AWWA Standard 3120-B	APHA-3120-B	0.67	<ELV
SE1	Wastewater/Sewer	Total phosphorus	composite	Biannual	24 hour	1	No flow value shall exceed the specific limit	0.1	mg/L	yes	ophotometry (Colorimetry)	APHA / AWWA Standard 4500-P	APHA-4500-P	22.97	<ELV
SE1	Wastewater/Sewer	Cyanides (as total CN)	composite	Biannual	24 hour	0.1	No flow value shall exceed the specific limit	0.041	mg/L	yes	ophotometry (Colorimetry)	APHA / AWWA Standard 4500-CN-E	APHA-4500-CN-E	0.92	<ELV
SE1	Wastewater/Sewer	mercury and compounds (as Hg)	composite	Annual	24 hour	5	No flow value shall exceed the specific limit	0.0184	mg/L	yes	mic Absorption Spectrometry	APHA / AWWA Standard 3120-B	APHA-3120-B	0.85	<ELV
SE1	Wastewater/Sewer	Lead and compounds (as Pb)	composite	Annual	24 hour	5	No flow value shall exceed the specific limit	0.001	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	0.275	<ELV
SE1	Wastewater/Sewer	Zinc and compounds (as Zn)	composite	Annual	24 hour	100	No flow value shall exceed the specific limit	0.0814	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	2.25	<ELV
SE1	Wastewater/Sewer	Copper and compounds (as Cu)	composite	Annual	24 hour	30	No flow value shall exceed the specific limit	0.041	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	0.441	<ELV
SE1	Wastewater/Sewer	cadmium and compounds (as Cd)	composite	Annual	24 hour	5	No flow value shall exceed the specific limit	0.0096	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	0.441	<ELV
SE1	Wastewater/Sewer	Arsenic and compounds (as As)	composite	Annual	24 hour	20	No flow value shall exceed the specific limit	0.001	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	0.005	<ELV
SE1	Wastewater/Sewer	Chromium and compounds (as Cr)	composite	Annual	24 hour	15	No flow value shall exceed the specific limit	0.002	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	0.092	<ELV
SE1	Wastewater/Sewer	Nickel and compounds (as Ni)	composite	Annual	24 hour	25	No flow value shall exceed the specific limit	0.039	mg/L	yes	vely Coupled Plasma - Atomic Absorption	APHA / AWWA Standard 3120-B	APHA-3120-B	0.66	<ELV

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

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

**Continuous monitoring**

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

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

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

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

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

SELECT	
SELECT	
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
SE1	Wastewater/Sewer	pH	<6; or >8.5	24 hour	All values < ELV	pH units	N/A	0	0		
	Wastewater/Sewer	volumetric flow	>170m3/day	24 hour	All values < ELV	m3/day	N/A	0	0		

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 testing**

dropdown menu click to see options

Additional information

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	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	
SELECT	

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

**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	SELECT		SELECT		

- \* Capacity required should comply with 25% or 110% containment rule as detailed in your licence
- Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? [bundling and storage guidelines](#)
- 15 Are channels/transfer systems to remote containment systems tested?
  - 16 Are channels/transfer systems compliant in both integrity and available volume?

SELECT	
SELECT	
SELECT	

**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 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**

SELECT	
Other (please specify)	

**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				SELECT

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

<b>Groundwater/Soil monitoring template</b>	Lic No: W0211-011	Year: 2016
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			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 interpraiaon 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.	no	<a href="#">Groundwater monitoring template</a>	
5 Is the contamination related to operations at the facility (either current and/or historic)	N/A		
6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site	N/A		
7 Please specify the proposed time frame for the remediation strategy	N/A		
8 Is there a licence condition to carry out/update ELRA for the site?	yes		
9 Has any type of risk assesment been carried out for the site?	yes		
10 Has a Conceptual Site Model been developed for the site?	no		
11 Have potential receptors been identified on and off site?	no		
12 Is there evidence that contamination is migrating offsite?	no		

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
24 Mar 2016 & 14 Dec 2016	MW2/MW3	pH	pH	Biannual	7.62	7.7	pH	N/A	N/A	no trend
	MW2/MW3	Conductivity	APHA -2510 -B	Biannual	886	729	m/sv	N/A	N/A	no trend
	MW2/MW3	COD	APHA 5220	Biannual	166	73.3	mg/l	N/A	N/A	no trend
	MW2/MW3	DRO	GC-FID	Biannual	0.147	0.0395	mg/l	N/A	N/A	no trend
	MW2/MW3	PRO	GC-FID	Biannual	<0.04	0.0075	mg/l	N/A	N/A	no trend
	MW2/MW3	Ammonia	APHA-4500	Biannual	7.6	2.2	mg/l	N/A	N/A	no trend
	MW2/MW3	Nitrate	APHA 4110	Biannual	4	1.1	mg/l	N/A	N/A	no trend
	MW2/MW3	Chloride	APHA 4110	Biannual	68	24.2	mg/l	N/A	N/A	no trend
	MW2/MW3	Iron	APHA 3120	Biannual	28.6	0.87	mg/l	N/A	N/A	no trend
	MW2/MW3	Cobalt	APHA 3120	Biannual	0.0103	0.0037	mg/l	N/A	N/A	no trend
	MW2/MW3	Manganese	APHA 3120	Biannual	16.5	1.73	mg/l	N/A	N/A	no trend
	MW2/MW3	Arsenic	APHA 3120	Biannual	0.017	0.044	mg/l	N/A	N/A	no trend
MW2/MW3	Organohalogenes	GC-FID	Biannual	0.005	<.005	mg/l	N/A	N/A	no trend	

.\* 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**

Groundwater/Soil monitoring template										
					Lic No:	W0211-011	Year		2016	
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
24 Mar 2016 & 14 Dec 2016	MW/1	pH	pH	Biannual	7.62	7.5	pH	N/A	N/A	no trend
	MW/1	Conductivity	APHA- 2150 -B	Biannual	670	660	m/sv	N/A	N/A	no trend
	MW/1	COD	APHA 5220	Biannual	<15	<12.5	mg/l	N/A	N/A	no trend
	MW/1	DRO	GC-FID	Biannual	0.04	<0.025	mg/l	N/A	N/A	no trend
	MW/1	PRO	GC-FID	Biannual	<0.01	<0.01	mg/l	N/A	N/A	no trend
	MW/1	Ammonia	APHA-4500	Biannual	<0.1	<0.1	mg/l	N/A	N/A	no trend
	MW/1	Nitrate	APHA 4110	Biannual	24	23.7	mg/l	N/A	N/A	no trend
	MW/1	Chloride	APHA 4110	Biannual	38	33.5	mg/l	N/A	N/A	no trend
	MW/1	Iron	APHA 3120	Biannual	0.937	0.87	mg/l	N/A	N/A	no trend
	MW/1	Cobalt	APHA 3120	Biannual	<0.002	<0.002	mg/l	N/A	N/A	no trend
	MW/1	Manganese	APHA 3120	Biannual	3.57	1.73	mg/l	N/A	N/A	no trend
MW/1	Arsenic	APHA 3120	Biannual	<0.001	<0.001	mg/l	N/A	N/A	no trend	
MW/1	Organohalogenes	GC-FID	Biannual	0.005	<.005	mg/l	N/A	N/A	no trend	
<p>*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.</p> <p style="text-align: right;"><a href="#">Groundwater monitoring template</a></p>										
<p>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 <a href="#">Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites (EPA 2013)</a>, G31)</p>										
<p>**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)</p>								<p><a href="#">Surface water EQS</a>   <a href="#">Groundwater regulations</a>   <a href="#">Drinking water (private supply) standards</a>   <a href="#">Drinking water (public supply) standards</a></p>		

<b>Groundwater/Soil monitoring template</b>	Lic No: W0211-011	Year: 2016
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**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



[Interim Guideline  
Values \(IGV\)](#)



[Click here to access EPA guidance on Environmental Liabilities and Financial provision](#)

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and not completed;	
3	Amount of Financial Provision cover required as determined by the latest ELRA	536000	
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	288000	
6	Financial Provision for ELRA - type	Environmental Impairment Liability insurance	
7	Financial provision for ELRA expiry date	Enter expiry date	
8	Closure plan initial agreement status	Closure plan submitted and not agreed by EPA	
9	Closure plan review status	Review required and not completed	
10	Financial Provision for Closure status	Submitted and not agreed by EPA;	
11	Financial Provision for Closure - amount of cover	288000	
12	Financial Provision for Closure - type	Environmental Impairment Liability insurance	
13	Financial provision for Closure expiry date	Enter expiry date	



Environmental Management Programme/Continuous Improvement Programme template		Lic No:	W0211-011	Year	2016
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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	14001
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	Reduce odour complaints	80	Waste mgt trining, remedial v	Individual	Less complaints
Additional improvements	Staff training	40	TBD	Individual	Improved Environmental Management Practices
Materials Handling/Storage/Bunding	Bund testing	0	Testing	Individual	Increased compliance with licence conditions

<b>Noise monitoring summary report</b>	Lic No: W0211-011	Year	2016
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- 1 Was noise monitoring a licence requirement for the AER period?  
If yes please fill in table N1 noise summary below
- 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?
- 3 Does your site have a noise reduction plan
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

[Noise Guidance note NG4](#)

**Table N1: Noise monitoring summary**

Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA <sub>eq</sub>	LA <sub>90</sub>	LA <sub>10</sub>	LA <sub>max</sub>	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 <u>site</u> compliant with noise limits (day/evening/night)?
10/10/2016	13.20-14.50	N1		56	47.6	58.6	60.8	No	Yes	Local traffic, low level noise	SELECT
10/10/2016	11.09-12.39	N2		51.3	44	54.4	53.7	No	Yes	Site noise, distant traffic	
10/10/2016	10.38-12.08	N3		53.3	46.4	55.9	56.8	No	Yes	Local traffic, industrail noise from adjacent facility,	
10/10/2016	12.27-13.37	NSR		63.4	50.7	65.4	66.5	No	Yes	Local traffic, no site noise	

\*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?

** please explain the reason for not taking action/resolution of noise issues?
Any additional comments? (less than 200 words)

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 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
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

[SEAI - Large Industry Energy Network \(LIEN\)](#)

Additional information	
Enter date of audit	2010
No	
Yes	

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)	376.89	363		
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	7.156	8		
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass		1758.65		
Renewable energy generated on site	1975.3	1435.6	-28	

\* 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 <sup>3</sup> /yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water							
Public supply	3.64	5.72	63%				
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)	7105.06		420.6		

**Resource Usage/Energy efficiency summary** Lic No: W0211-011 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					

<b>WASTE SUMMARY</b>	Lic No: W0211-011	Year: 2016
<b>SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES</b>	<a href="#">PRTR facility logon.</a>	dropdown list click to see options

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

Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting)  
 If yes please enter details in table 1 below

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

No	
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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)**

Licensed annual tonnage limit for your site (total tonnes/annum)	EWC code	Source of waste accepted	Description of waste accepted <i>Please enter an accurate and detailed description - which applies to relevant EWC code</i> <a href="#">European Waste Catalogue EWC codes</a>	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 -
110,000	02 07 04	02-WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	Beverage Waste	410.84	211.46	increase	supplier increase	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		
110,000	02 01 04	02-WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	farm plastics	0	0	decrease	stopped intake	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		
110,000	07 02 12	07- WASTES FROM ORGANIC CHEMICAL PROCESSES	Waste sludge from WWTP	440.51	410.84	decrease	Supplier decrease	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		
110,000	07 05 12	07- WASTES FROM ORGANIC CHEMICAL PROCESSES	Pharma sludge	2,492.67	2033.78	increase	Supplier increase	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		
110,000	11 01 10	11- WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	waste sludge	31.1	75.02	decrease	Supplier decrease	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		
110,000	17 09 04	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed C&D waste	0	1828.88	decrease	supplier decrease	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		
110,000	19 02 06	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	filter cakes	622.11	52.46	increase	Supplier increase	unknown	R3-Recycling/reclamation or organic substances which are not used as solvents(including		



<b>WASTE SUMMARY</b>	Lic No:	W0211-011	Year	2016
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<b>WASTE SUMMARY</b>	Lic No:	W0211-011	Year	2016
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**Table 4 Environmental monitoring-landfill only** [Landfill Manual-Monitoring Standards](#)

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

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

**Table 5 Capping-Landfill only**

Area uncapped*	Area with temporary cap	Area with final cap to LD Standard m <sup>2</sup> 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					

\*please note this includes daily cover area

**Table 6 Leachate-Landfill only**

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

SELECT

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

SELECT

Volume of leachate in reporting year(m <sup>3</sup> )	Leachate (BOD) mass load (kg/annum)	Leachate (COD) mass load (kg/annum)	Leachate (NH <sub>4</sub> ) mass load (kg/annum)	Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	Specify type of leachate treatment	Comments

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

**Table 7 Landfill Gas-Landfill only**

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



*γ composting as another biological transformation processes)which includes gasification and pyrolysis*

*γ composting as another biological transformation processes)which includes gasification and pyrolysis*

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*3 composting asanother biological transformation processes)which includes gasification and pyrolysis*

*3 composting asanother biological transformation processes)which includes gasification and pyrolysis*

*3 composting asanother biological transformation processes)which includes gasification and pyrolysis*

<b>Comments on liner type</b>





