| SELECT | cells that are highlighted blue contain a dropdown menu click to select one option from the list |
|--|--|
| guidance document link | cells that contain underlined text click to access relevant guidance documents for this section |
| Table heading * | table headings followed by a symbol have an associated footnote or instructions |
| Cells with red indicator in top right corner | cells that have a red indicator in the top right corner contain a comment box with further instructions or clarification |

Please note an interpretation of results is still required. This should be entered in the additional information/comments boxes within the templates. Please size these boxes appropriately to fit your interpretation, if additional space is required please include an appendix to the AER template and merge it as part of the AER PDF document. The excel template should have all cells sized appropriately so that all text is readable before it is converted to PDF document.

| Facility Information Summary | | | | | |
|---|--|--|---|--|---|
| AER Reporting Year | 2016 | | | | |
| Licence Register Number | W028901 | | | | |
| Name of site | The East Tip | | | | |
| Site Location | Haulbowline Island, Co | o. Cork | | | |
| NACE Code | 3900 | | | | |
| Class/Classes of Activity | D1, D4, D7, D13, D15, | R4, R5, R12 | , R13 | | |
| National Grid Reference (6E, 6 N) | E79532, N65455 | | | | |
| 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> | Constructing an eng drainage system to lim Constructing a Perin Re-profiling and land paths, playing pitch, ca feature, boundary and works). The licensed activity is the site in the 2016 ca | ineered cap nit surface v neter Engin dscaping th ar park for 5 l other fenc due to con lendar year ed out in 20 | oping system over the suvater infiltration. eered Structure (PES) to e site to facilitate the pr 64 no. cars, bicycle parki ing, bird viewing areas, l mence circa June 2017 . As such, there is no me 16 and these elements o | urface of the wa o limit tidal inune ovision of a pub ng area, future o bird roosting lec and there were onitoring data, o | te through the following: aste body and installing a surface water dation to the site. olic park (including grassland, wetland, overflow parking area, entrance dge, and all associated landscaping e no licensed activities carried out on complaints, incidents, liability ain no data. The 2017 AER will contain |

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.

| | 7th April 2017 |
|---|----------------|
| Signature Group/Facility manager | Date |
| (or nominated, suitably qualified and experienced deputy) | |

| AIR-summary template | Lic No: | W028901 | Year | 2016 |
|---|---------|---------|------|------|
| 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 SELECT

| | Periodic/Non-Continuous Monitoring | | | |
|---|---|---|--------|--|
| 2 | Are there any results in breach of licence requirements? If yes please TableA1 below | | SELECT | |
| 3 | Was all monitoring carried out in accordance with EPA guidance | lasic air nonitoring hecklistAGN2 | SELECT | |

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

| Emission reference no: | | Frequency of | ELV in licence or any revision therof | Licence Compliance criteria | | Compliant with licence limit | Method of analysis | Annual mass | Comments - reason for change in % mass load from previous year if applicable |
|---------------------------|------------------|--------------|---|-----------------------------|--------|---------------------------------|--------------------|-------------|---|
| | SELECT | | | SELECT | SELECT | | SELECT | | |
| | SELECT | | | SELECT | SELECT | SELECT | SELECT | | |
| | SELECT SELECT | | | SELECT SELECT | | | SELECT SELECT | | |

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

| | AIR-summary template | Lic No: | W028901 | Year | 2016 |
|---|--|---------|---------|------|------|
| | Continuous Monitoring | | | | |
| 4 | | 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 Table A2: Summary of average emissions -continuous monitoring | SELECT | | | |

| Emission | Parameter/ Substance | | Averaging Period | Compliance Criteria | Units of | Annual Emission | Annual maximum | Monitoring | Number of ELV | Comments |
|---------------|----------------------|---------------------|------------------|---------------------|-------------|-----------------|----------------|------------------|----------------|----------|
| reference no: | | | | | measurement | | | Equipment | exceedences in | |
| | | | | | | | | downtime (hours) | current | |
| | | ELV in licence or | | | | | | | reporting year | |
| | | any revision therof | | | | | | | | |
| | 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: | W028901 | | Year | 2016 | - |
|---|---|-------------------------------------|--|--------------------------------------|--|----------------------------------|-------------------------------------|-----------------------------------|--|------|---|
| | Solvent | use and manageme | nt on site | | | | | | | | |
| 8 | Do you have a tota | l Emission Limit Value of d | irect and fugitive emi | ssions on site? if yes | s please fill out tables A4 and A5 | | | SELECT | | | |
| | Table A4: Solvent Management Plan Summary Total VOC Emission limit value | | | <u>Solvent</u> <u>regulations</u> | Please refer to linked solver complete table 5 | | | I | | | |
| | Reporting year | Total solvent input on site (kg) | Total VOC emissions to Air from entire site (direct and fugitive) | | Total Emission Limit Value (ELV) in licence or any revision therof | Compliance | | | | | |
| | | | | | | SELECT | | | | | |
| | Table AF. | Cohuent Mass Dalan | | | | SELECT | | | | | |
| | Table A5: | Solvent Mass Balan | ce summary | | | | | | | Т | |
| | | (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: | W028901 | Year | 2016 |
|---|---------|------------------------|------|------|
| - | | 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 only need to complete table W1 and or W2 for storm water analysis and visual inspections

Iswer te table SELECT 2 below IODS SELECT

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 only any evidence of contamination noted during visual inspections

Table W1 Storm water monitoring

| Location reference | Location relative to site activities | PRTR Parameter | Licenced Parameter | 0 | 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 y comment section of Table Wa | | ief details in the | SELECT | 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 | 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 | | ELV or trigger values in licence or any revision therof ^{Note 2} | Licence Compliance criteria | Unit of measurement | Compliant with licence | | Procedural | 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: | W028901 | Year | 2016 |
|---|---------|---------------------------------|------|------|
| Continuous monitoring | | A distance in the forecast term | | |
| Continuous monitoring | | Additional Information | | |

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

Additional Information

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 SELECT

8 below Table W4: Summary of average emissions -continuous monitoring

| Emission | Emission | | ELV or trigger values in licence or any revision | Averaging | Compliance | Units of | | % change +/- from previous reporting year | • | Number of ELV exceedences in | |
|---------------|-------------|----------------------|--|-----------|------------|-------------|---------------------|---|------------------|---------------------------------|----------|
| reference no: | released to | Parameter/ Substance | thereof | Period | Criteria | measurement | reporting year (kg) | | downtime (hours) | 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 | Reason for | Corrective | Was a report | When was this report |
|------|------------------|----------|-----------|------------|------------|------------------|----------------------|
| | | | emissions | bypass | action* | submitted to the | submitted? |
| | | | | | | EPA? | |
| | | | | | | SELECT | |
| | | | | | | | |
| | | | | | | | |

*Measures taken or proposed to reduce or limit bypass frequency

| Bund/Pipeline testing template | c No: | W028901 | | Year | 2016 | |
|--|----------------------|---------|------------------------|------|------|---|
| | | | | | | • |
| 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 li | isting all new bunds | | | | | |
| and containment structures on site, in addition to all bunds which failed the integrity test-all bunding structures which failed including mol | bile 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 | | SELECT | | 1 | | |
| Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containe | rs refers to | | | | | |
| 3 "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 | | | | | | |
| 1 Do all sumps and chambers have high level liquid alarms? | | SELECT | | 1 | | |
| 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme? | | SELECT | | I | | |
| 13 Is the Fire Water Retention Pond included in your integrity test programme? | | SELECT | | 1 | | |
| Table B1: Summary details of bund /containment structure integrity test | | | | | | |

8

| Bund/Con structure | | Туре | 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 | | |
| | | ly with 25% or 110% containment ru | | | | · | | Commentary | | | | • | | | |
| Has integr | rity testing be | en carried out in accorda | ince with licence requirements an | d are all structures tested | | | | | | | | | | | |
| 15 in line wit | h BS8007/EPA | A Guidance? | | | bunding and storage guide | ines | SELECT | | | | | | | | |
| 16 Are chann | e channels/transfer systems to remote containment systems tested? | | | | | | SELECT | | | | | | | | |
| 17 Are chann | nels/transfer s | systems compliant in both | h integrity and available volume? | | | | 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 1 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 2 Please provide integrity testing frequency period *please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

| SELECT | |
|--------|--|
| SELECT | |
| | |

| | Table B2: Summary details of p | pipeline/underground structures i | integrity test |] | | | | | |
|--------------|--------------------------------|-----------------------------------|--|-------------------------------|------------------------|---------------------------------------|--------|--|---|
| Structure II | D 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 retest(if in curren reporting year) |
| | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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

Year

2016

Comments Are you required to carry out groundwater monitoring as part of your licence requirements? SELECT 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? SELECT interpretation box below or if you require additional space please Do you extract groundwater for use on site? If yes please specify use in comment include a groundwater/contaminated land monitoring results ³ section SELECT interpretaion as an additional section in this AER Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is 4 there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Groundwater monitoring Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. template SELECT 5 Is the contamination related to operations at the facility (either current and/or , historic) SELECT 6 Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site SELECT 7 Please specify the proposed time frame for the remediation strategy SELECT SELECT 8 Is there a licence condition to carry out/update ELRA for the site? 9 Has any type of risk assesment been carried out for the site? SELECT 10 Has a Conceptual Site Model been developed for the site? SELECT 11 Have potential receptors been identified on and off site? SELECT SELECT 12 Is there evidence that contamination is migrating offsite? Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

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

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

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

| | 1 | 0 |
|--|---|---|
| | | |

| trend in results for a substance indicates that further interpretation of monitoring re complete the Groundwater Monitoring Guideline Template Report at the link provid otherwise instructed by t | led and submit | | | <u>Groundwater mo</u> | itoring 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 Contam | inated Land and Groun | dwater at EPA License | d Sites (EPA 2013). | |
| | | | | | | |

| Ground | Groundwater/Soil monitoring template | | | | Lic No: | W028901 | | Year | 2016 | |
|------------------|--------------------------------------|-------------------------|-------------|-------------------------|--------------------------|--------------------------|--------|------|------|--|
| Table 3 | 3: Soil resu | ts | | | | | | | | |
| Date of sampling | | 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

Specify

Lic No:

W0289--01

Commentary

Year

2016

12

| | <u>Click here to access EPA guidance on Environmental Liabilities and Financial</u> provision | |
|---|--|--------|
| | | |
| 1 | ELRA initial agreement status | SELECT |
| 2 | ELRA review status | SELECT |
| | | |

| 3 | Amount of Financial Provision cover required as determined by the latest ELRA |
|---|---|
|---|---|

| 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 Programm | e template | Lic No: | W028901 | 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 | SELECT | | | | |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site | SELECT | | | _ | |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements | SELECT | | | | |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | SELECT | | | | |

| Environmental Management Programme (EMP) report | | | | | | | | | | | |
|---|--------|----------------------|---------------------------|----------------|-----------------------|--|--|--|--|--|--|
| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| SELECT | | SELECT | | SELECT | SELECT | | | | | | |
| SELECT | | SELECT | | SELECT | SELECT | | | | | | |
| SELECT | | SELECT | | SELECT | SELECT | | | | | | |

| | N | oise monitor | ing summary | report | | | Lic No: | W028901 | Year | 201 |
|---|--------------------|--------------------------------------|--|------------------|------------------|------------------|--------------------------|------------------------------------|---|---|
| | • | ice requirement f oise summary be | | od? | | | | SELECT | 1 | |
| 2 Was noise m | nonitoring carried | d out using the El | PA Guidance not | | | of the | <u>Noise</u> Guidance | SELECT | | |
| "Checklist for noise measurement report" included in the guidance note as table 6?3 Does your site have a noise reduction plan4 When was the noise reduction plan last updated? | | | | | | | <u>note NG4</u> | SELECT Enter date | - | |
| | | elevant to site no | | | operational | changes) sin | ce the last | SELECT | | |
| Table N1: No | oise monitoring | summary | | | | 1 | | | | T |
| 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) |

| Tuble It1110 | ise monitoring : | , annuar y | | | | | | | | | |
|-----------------------|------------------|-----------------------------|--|------------------|------------------|------------------|-------------------|--------------------|-------------------------------|---|--|
| 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 | If tonal /impulsive noise was | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic) | Is <u>site c</u> ompliant with noise limits (day/evening/night)? |
| | | | | | | | | SELECT | SELECT | | SELECT |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

*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: | W028901 | Year | 2016 |
|--|---------|---------|------|------|
| | | | | |

<u>SEAI - Large</u> Industry Energy Additional information

Enter date of audit

SELECT

SELECT

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

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

 2
 such as the SEAI programme linked to the right? If yes please list them in additional information
 Network (LIEN)

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

| 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 (| MWHrs) | | | |
| Electricity Consumption (MWHrs) | | | | |
| Fossil Fuels Consumption: | | | | |
| Heavy Fuel Oil (m3) | | | | |
| 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 usag | 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 | vs overall site | back to | released as steam | |
| Water use | Previous year m3/yr. | Current year m3/yr. | reporting year** | production* | environment(m ³ yr): | m3/yr | Unaccounted for Water: |
| Groundwater | | | | | | | |
| Surface water | | | | | | | |
| Public supply | | | | | | | |
| 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 La | | Landfill | Incineration | Recycled | Other |
| Hazardous (Tonnes) | | | | | |
| Non-Hazardous (Tonnes) | | | | | |

| Resource | e Usage/Energy efficiency sur | nmary | | | Lic No: | W028901 | | Year | |
|----------|---|-------|--|--------------------|-------------------------------|---------------------|----------------|------|---------------------|
| | Table R4: Energy Au | tions | | | | | | | |
| | Date of audit Recommendations Measures proposed C | | | 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 or | n Site | | | | |

| Complaints and Incidents summary template | | Lic No: | W028901 | Year | 2016 |
|--|--------|-------------------|---------|------|------|
| Complaints | | | | | |
| | | Additional inform | ation | | |
| 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 | SELECT | | | | |
| | | | - | | |

| Table | 1 Complaints summary | | | | | | |
|--|----------------------|-----------------------------|---|-----------------------|-------------------|-----------------|-------------|
| | | | Brief description of complaint (Free txt <20 | Corrective action< 20 | | | Further |
| Date | Category | Other type (please specify) | words) | words | Resolution status | Resolution date | 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 | orting year? Please list all incid | ents for current reporting | |
| year in Ta | SELECT | | |
| | | | |
| *For information on how to report and what | | | |

What is an incident

constitutes an incident

| Table 2 Incidents sur | mmary | | 1 | | | | | | | | | | | |
|-----------------------|-----------------|------------------------|--------------------------|----------|-------------------|--------------|------------------|---------------|------------|----------------------|--------------|-------------------|------------|---------------|
| | | | Incident | | | Other | Activity in | | | | Preventative | | | T |
| | | | category*please refer to | | | cause(please | progress at time | | | Corrective action<20 | action <20 | | Resolution | Likelihood of |
| Date of occurrence | Incident nature | Location of occurrence | 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 | Lic No: | W028901 | Year | 2016 |
|---|----------------------------------|---------------------|---------|-----------------------------|
| SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED B | BY ALL IPPC AND WASTE FACILITIES | PRTR facility logon | dropdow | n list click to see options |

| SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES | | | |
|---|--------|------------------------|--|
| | | Additional Information | |
| 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 1 is to be captured through PRTR reporting) | SELECT | | |
| 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 | SELECT | | |
| 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 | SELECT | | |

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 | EWC code | Source of waste accepted | Description of waste | Quantity of waste | Quantity of waste accepted in | Reduction/ | Reason for | Packaging Content (%)- | Disposal/Recovery or | Quantity of | Comments - |
|------------------------|------------------------------------|--------------------------|-------------------------|-------------------------|----------------------------------|--------------------|---------------------|------------------------|----------------------------------|------------------|------------|
| tonnage limit for your | | | accepted | accepted in current | previous reporting year (tonnes) | Increase over | reduction/ increase | only applies if the | treatment operation carried out | waste remaining | |
| site (total | | | Please enter an | reporting year (tonnes) | | previous year +/ - | from previous | waste has a packaging | at your site and the description | on site at the | |
| tonnes/annum) | | | accurate and detailed | | | % | reporting year | component | of this operation | end of reporting | |
| | | | description - which | | | | | | | year (tonnes) | |
| | | | applies to relevant EWC | | | | | | | | |
| | | | code | | | | | | | | |
| | European Waste Catalogue EWC codes | | European Waste | | | | | | | | |
| | | | Catalogue EWC codes | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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?

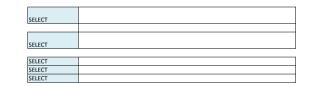
SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

| Table 2 Waste type and | d 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? | area occupied by | Lined disposal area occupied by waste | Unlined area |
|---|---------|----------------------------|-------------------------|-----------------------|-------------------------------|------------------------|-------------------------------------|-----------------------------|---|------------------|---|--------------|
| | | | | | | | | | | SELECT UNIT | SELECT UNIT | SELECT UNIT |
| [| Cell 8 | | | | | | | | | | | |



| red in Was topography under \$53(A)(5) of | Was SW monitored in Was topography under S53(A)(5) of |
|---|--|
| | Was SW monitored in Was topography under S53(A)(5) of |
| LD of the site WMA been | Was leachate monitored in compliance compliance with LD standard in standard in reporting Have GW trigger levels Were emission limit values agreed with surveyed in submitted in |

SELECT SELECT

*please note this includes daily cover area

Table 6 Leachate-Landfill only

9 Is leachate from your site treated in a Waste Water Treatment Plant? 10 Is leachate released to surface water? If yes please complete leachate mass load information below

| | | | | | | Specify type of | |
|-----------------------|-------------------------------------|--------------------------|---------------------|---------------------|----------------------------|-----------------|----------|
| Volume of leachate in | | Leachate (COD) mass load | Leachate (NH4) mass | Leachate (Chloride) | | leachate | |
| reporting year(m3) | Leachate (BOD) mass load (kg/annum) | (kg/annum) | load (kg/annum) | mass load kg/annum | Leachate treatment on-site | 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 | | | Was surface emissions monitoring performed during the reporting | |
|----------------------|----------------------------|----------------------------------|---|----------|
| by LFG System m3 | Power generated (MW / KWh) | Used on-site or to national grid | year? | Comments |
| | | | SELECT | |

