| Facility Information Summary | |
|---|---|
| AER Reporting Year | 2014 |
| Licence Register Number | W0253 |
| Name of site | Clean (Irl) Refuse & Recycling Company Limited |
| Site Location | Ballinagun West, Cree, County Clare |
| NACE Code | |
| Class/Classes of Activity | |
| National Grid Reference (6E, 6 N) | |

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

This is the first AER for the licensed site ar Cree.

**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.

| | |
|---|---|
| _____ | 31/03/2015 |
| Signature<br>Group/Facility manager<br>(or nominated, suitably qualified and experienced deputy) | Date |

**AIR-summary template** Lic No: W0253 Year 2014

**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 | SELECT | |

**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 | SELECT | 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 | SELECT | No |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|
| D-1 | LICENCED | Quarterly | 350 | Monthly average < ELV | 180.75 | mg/m2/day | yes | BS1747 | N/A | |
| D-2 | LICENCED | Quarterly | 350 | Monthly average < ELV | 421.75 | mg/m2/day | no (if no please enter details in comments box) | BS1747 | N/A | algae contamination on two occassions |
| D-3 | LICENCED | Quarterly | 350 | Monthly average < ELV | 202 | mg/m2/day | no (if no please enter details in comments box) | BS1747 | N/A | High levels of Algae growth/decay and bird droppings observed in |
| D-4 | LICENCED | Quarterly | 350 | Monthly average < ELV | 286.5 | mg/m2/day | no (if no please enter details in comments box) | BS1747 | N/A | High levels of Algae growth/decay and bird droppings observed in |
| D-5 | LICENCED | Quarterly | 350 | Monthly average < ELV | 422.5 | mg/m2/day | no (if no please enter details in comments box) | BS1747 | N/A | High levels of Algae growth/decay and bird droppings observed in dust jars |

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

| AIR-summary template | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|

## Continuous Monitoring

| | | | |
|---|---|---|---|
| 4 | Does your site carry out continuous air emissions monitoring? | SELECT | No |
| | 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 | N/A |
| 6 | Do you have a proactive service agreement for each piece of continuous monitoring equipment? | SELECT | N/A |
| 7 | Did your site experience any abatement system bypasses? If yes please detail them in table A3 below | SELECT | N/A |

**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: | W0253 | Year | 2014 |
|---|---|---|---|---|

## 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 | N/A |

**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 | Total emission of Solvent to air (kg) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | Total | |

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0253 Year 2014

| | | 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 | SELECT |
| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| SW1 | downstream | SELECT | pH | 25/03/2014 | *6.5 – 9.5* | All values < ELV | 7.5 | pH units | yes | |
| SW1 | downstream | SELECT | Conductivity | 25/03/2014 | *1000* | All values < ELV | 641 | µS/cm @20oC | yes | |
| SW1 | downstream | SELECT | Suspended Solids | 25/03/2014 | *25* | All values < ELV | 8 | mg/L | yes | |
| SW1 | downstream | SELECT | BOD | 25/03/2014 | *2.6* | All values < ELV | 7 | mg/L | yes | |
| SW1 | downstream | SELECT | COD | 25/03/2014 | *-* | All values < ELV | 27 | mg/L | yes | |
| SW1 | downstream | SELECT | Ammonia (as N) | 25/03/2014 | *0.14* | All values < ELV | 1.775 | mg/L | yes | |
| SW1 | downstream | SELECT | Sulphate | 25/03/2014 | *200* | All values < ELV | 95.25 | mg/L | yes | |
| SW1 | downstream | SELECT | Kjeldahl Nitrogen | 25/03/2014 | *-* | All values < ELV | 4 | mg/L | yes | |
| SW1 | downstream | SELECT | Mineral oils | 25/03/2014 | *10* | All values < ELV | <10 | mg/L | yes | |
| SW1 | downstream | SELECT | pH | 28/04/2014 | *6.5 – 9.5* | All values < ELV | 7.4 | pH units | yes | |
| SW1 | downstream | SELECT | Conductivity | 28/04/2014 | *1000* | All values < ELV | 591 | µS/cm @20oC | yes | |
| SW1 | downstream | SELECT | Suspended Solids | 28/04/2014 | *25* | All values < ELV | <5 | mg/L | yes | |
| SW1 | downstream | SELECT | BOD | 28/04/2014 | *2.6* | All values < ELV | <2 | mg/L | yes | |
| SW1 | downstream | SELECT | COD | 28/04/2014 | *-* | All values < ELV | 32 | mg/L | yes | |
| SW1 | downstream | SELECT | Ammonia (as N) | 28/04/2014 | *0.14* | All values < ELV | **0.56** | mg/L | no (if no please enter details in comments box) | |
| SW1 | downstream | SELECT | Sulphate | 28/04/2014 | *200* | All values < ELV | 92 | mg/L | yes | |
| SW1 | downstream | SELECT | Kjeldahl Nitrogen | 28/04/2014 | *-* | All values < ELV | 1.2 | mg/L | yes | |
| SW1 | downstream | SELECT | Mineral oils | 28/04/2014 | *10* | All values < ELV | <10 | mg/L | yes | |
| SW1 | downstream | SELECT | pH | 26/06/2014 | *6.5 – 9.5* | All values < ELV | 7.2 | pH units | yes | |
| SW1 | downstream | SELECT | Conductivity | 26/06/2014 | *1000* | All values < ELV | 538 | µS/cm @20oC | yes | |
| SW1 | downstream | SELECT | Suspended Solids | 26/06/2014 | *25* | All values < ELV | 8 | mg/L | yes | |
| SW1 | downstream | SELECT | BOD | 26/06/2014 | *2.6* | All values < ELV | **7** | mg/L | se enter details in comments box) | |
| SW1 | downstream | SELECT | COD | 26/06/2014 | *-* | All values < ELV | 50 | mg/L | yes | |
| SW1 | downstream | SELECT | Ammonia (as N) | 26/06/2014 | *0.14* | All values < ELV | **5.6** | mg/L | yes | |
| SW1 | downstream | SELECT | Sulphate | 26/06/2014 | *200* | All values < ELV | 40 | mg/L | yes | |
| SW1 | downstream | SELECT | Kjeldahl Nitrogen | 26/06/2014 | *-* | All values < ELV | 8.3 | mg/L | yes | |
| SW1 | downstream | SELECT | Mineral oils | 26/06/2014 | *10* | All values < ELV | <10 | mg/L | yes | |
| SW1 | downstream | SELECT | pH | 30/10/2014 | *6.5 – 9.5* | All values < ELV | 7.6 | pH units | yes | |
| SW1 | downstream | SELECT | Conductivity | 31/10/2014 | *1000* | All values < ELV | 808 | µS/cm @20oC | yes | |
| SW1 | downstream | SELECT | Suspended Solids | 01/11/2014 | *25* | All values < ELV | <5 | mg/L | yes | |
| SW1 | downstream | SELECT | BOD | 02/11/2014 | *2.6* | All values < ELV | <2 | mg/L | yes | |
| SW1 | downstream | SELECT | COD | 03/11/2014 | *-* | All values < ELV | 14 | mg/L | yes | |
| SW1 | downstream | SELECT | Ammonia (as N) | 04/11/2014 | *0.14* | All values < ELV | **0.61** | mg/L | se enter details in comments box) | |
| SW1 | downstream | SELECT | Sulphate | 05/11/2014 | *200* | All values < ELV | 178 | mg/L | yes | |
| SW1 | downstream | SELECT | Kjeldahl Nitrogen | 06/11/2014 | *-* | All values < ELV | 2.5 | mg/L | yes | |
| SW1 | downstream | SELECT | Mineral oils | 07/11/2014 | *10* | All values < ELV | <10 | mg/L | yes | |
| SW2 | downstream | SELECT | pH | 25/03/2014 | *6.5 – 9.5* | All values < ELV | 6.7 | pH units | yes | |
| SW2 | downstream | SELECT | Conductivity | 25/03/2014 | *1000* | All values < ELV | 852 | µS/cm @20oC | yes | |
| SW2 | downstream | SELECT | Suspended Solids | 25/03/2014 | *25* | All values < ELV | 24 | mg/L | yes | |
| SW2 | downstream | SELECT | BOD | 25/03/2014 | *2.6* | All values < ELV | **22** | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | COD | 25/03/2014 | *-* | All values < ELV | 70 | mg/L | yes | |
| SW2 | downstream | SELECT | Ammonia (as N) | 25/03/2014 | *0.14* | All values < ELV | **0.91** | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | Sulphate | 25/03/2014 | *200* | All values < ELV | <0.5 | mg/L | yes | |
| SW2 | downstream | SELECT | Kjeldahl Nitrogen | 25/03/2014 | *-* | All values < ELV | 3.8 | mg/L | yes | |
| SW2 | downstream | SELECT | Mineral oils | 25/03/2014 | *10* | All values < ELV | <10 | mg/L | yes | |
| SW2 | downstream | SELECT | pH | 28/04/2014 | *6.5 – 9.5* | All values < ELV | 7 | pH units | yes | |
| SW2 | downstream | SELECT | Conductivity | 28/04/2014 | *1000* | All values < ELV | 946 | µS/cm @20oC | yes | |
| SW2 | downstream | SELECT | Suspended Solids | 28/04/2014 | *25* | All values < ELV | 6 | mg/L | yes | |
| SW2 | downstream | SELECT | BOD | 28/04/2014 | *2.6* | All values < ELV | <2 | mg/L | yes | |
| SW2 | downstream | SELECT | COD | 28/04/2014 | *-* | All values < ELV | 31 | mg/L | yes | |
| SW2 | downstream | SELECT | Ammonia (as N) | 28/04/2014 | *0.14* | All values < ELV | **1.3** | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | Sulphate | 28/04/2014 | *200* | All values < ELV | **218** | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | Kjeldahl Nitrogen | 28/04/2014 | *-* | All values < ELV | 4.7 | mg/L | yes | |
| SW2 | downstream | SELECT | Mineral oils | 28/04/2014 | *10* | All values < ELV | <10 | mg/L | yes | |
| SW2 | downstream | SELECT | pH | 26/06/2014 | *6.5 – 9.5* | All values < ELV | 7 | pH units | yes | |
| SW2 | downstream | SELECT | Conductivity | 26/06/2014 | *1000* | All values < ELV | 478 | µS/cm @20oC | yes | |

**AER Monitoring returns summary template-WATER/WASTEWATER(SEWER)** Lic No: W0253 Year 2014

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SW2 | downstream | SELECT | Suspended Solids | 26/06/2014 | 25 | All values < ELV | 9 | mg/L | yes | |
| SW2 | downstream | SELECT | BOD | 26/06/2014 | 2.6 | All values < ELV | 14 | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | COD | 26/06/2014 | - | All values < ELV | 72 | mg/L | yes | |
| SW2 | downstream | SELECT | Ammonia (as N) | 26/06/2014 | 0.14 | All values < ELV | 1.8 | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | Sulphate | 26/06/2014 | 200 | All values < ELV | 85 | mg/L | yes | |
| SW2 | downstream | SELECT | Kjeldahl Nitrogen | 26/06/2014 | - | All values < ELV | 4.6 | mg/L | yes | |
| SW2 | downstream | SELECT | Mineral oils | 26/06/2014 | 10 | All values < ELV | <10 | mg/L | yes | |
| SW2 | downstream | SELECT | pH | 30/10/2014 | 6.5 – 9.5 | All values < ELV | 7.4 | pH units | yes | |
| SW2 | downstream | SELECT | Conductivity | 31/10/2014 | 1000 | All values < ELV | 3240 | µS/cm @20oC | se enter details in comments box) | |
| SW2 | downstream | SELECT | Suspended Solids | 01/11/2014 | 25 | All values < ELV | 7 | mg/L | yes | |
| SW2 | downstream | SELECT | BOD | 02/11/2014 | 2.6 | All values < ELV | 4 | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | COD | 03/11/2014 | - | All values < ELV | 76 | mg/L | yes | |
| SW2 | downstream | SELECT | Ammonia (as N) | 04/11/2014 | 0.14 | N/A | 0.59 | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | Sulphate | 05/11/2014 | 200 | All values < ELV | 924 | mg/L | se enter details in comments box) | |
| SW2 | downstream | SELECT | Kjeldahl Nitrogen | 06/11/2014 | - | All values < ELV | 6.6 | mg/L | yes | |
| SW2 | downstream | SELECT | Mineral oils | 07/11/2014 | 10 | All values < ELV | <10 | mg/L | yes | |
| | | | | | | | | | | |

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

**Table W2 Visual inspections-Please only enter details where contamination was observed.**

| Location Reference | Date of inspection | Description of contamination | Source of contamination | Corrective action | Comments |
|---|---|---|---|---|---|
| | | | SELECT | | |
| | | | SELECT | | |

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

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

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

| Emission reference no: | Emission released to | Parameter/ SubstanceNote 1 | Type of sample | Frequency of monitoring | Averaging period | ELV or trigger values in licence or any revision 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-1 | Wastewater/Sewe | pH | discrete | Annual | SELECT | 6.0 - 9.0 | | 6.7 | pH units | SELECT | pH Meter (Electrode) | APHA / AWWA "Standard | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | Ammonia (as N) | discrete | Annual | | - | | 78 | mg/L | SELECT | Ion Chromatography | APHA / AWWA "Standard | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | BOD | discrete | Annual | | 20 | | 3 | mg/L | SELECT | ed Oxygen Meter (Ele | APHA / AWWA "Standard Methods" | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | COD | discrete | Annual | SELECT | 120 | | 188 | mg/L | SELECT | stion + Spectrophoton | APHA / AWWA "Standard | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | Conductivity | discrete | Annual | | - | | 1361 | µS/cm @20oC | yes | (Ion Selective Electro | APHA / AWWA "Standard | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | Suspended Solids | discrete | Annual | | 30 | | 210 | mg/L | no (if no please enter details in comments box) | (Ion Selective Electro | APHA / AWWA "Standard Methods" | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | Kjeldahl Nitrogen | discrete | Annual | SELECT | - | | 150 | mg/L | yes | stion + Spectrophoton | APHA / AWWA "Standard | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewe | Total phosphorus | discrete | Annual | | - | | 15 | mg/L | yes | stion + Spectrophoton | APHA / AWWA "Standard | | N/A | No Flow measurement |
| GW-1 | Wastewater/Sewer | | | | | | | | | | | | | N/A | |

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: W0253 Year 2014

## Continuous monitoring

| | | | Additional Information |
|---|---|---|---|
| 5 | Does your site carry out continuous emissions to water/sewer monitoring? | No | |

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

| | | | |
|---|---|---|---|
| 6 | Did continuous monitoring equipment experience downtime? **If yes please record downtime in table W4 below** | No | |
| 7 | Do you have a proactive service contract for each piece of continuous monitoring equipment on site? | No | |
| 8 | Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below** | No | |

### 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GW1 | Vastewater/Sewe | pH | | SELECT | SELECT | SELECT | | | | | |
| | | Ammonia (as N) | | | | | | | | | |
| | SELECT | BOD | | SELECT | SELECT | SELECT | | | | | |
| | | COD | | | | | | | | | |
| | | Conductivity | | | | | | | | | |
| | | Suspended Solids | | | | | | | | | |
| | | Kjeldahl Nitrogen | | | | | | | | | |
| | | Total phosphorus | | | | | | | | | |

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: W0253 Year 2014

Bund testing

dropdown menu click to see options

| | | | Additional information |
|---|---|---|---|
| 1 | Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to **all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period** (mobile bunds and chemstore included) | Yes | |
| 2 | Please provide integrity testing frequency period | 3 years | |
| 3 | Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds) | Yes | |
| 4 | How many bunds are on site? | 10 | |
| 5 | How many of these bunds have been tested within the required test schedule? | 0 | Planned for 2015 |
| 6 | How many mobile bunds are on site? | 5 | |
| 7 | Are the mobile bunds included in the bund test schedule? | Yes | All planned for 2015 |
| 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? | No | planned for installation in 2015 |
| 12 | If yes to Q11 are these failsafe systems included in a maintenance and testing programme? | N/A | |
| 13 | Is the Fire Water Retention Pond included in your integrity test programme? | N/A | |

**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 | Yes | |
| 16 | Are channels/transfer systems to remote containment systems tested? | No | |
| 17 | Are channels/transfer systems compliant in both integrity and available volume? | No | |

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** | Yes | Planned for 2015 |
| 2 | Please provide integrity testing frequency period | 3 years | Planned for 2015 |
| | *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: | W0253 | Year | 2014 |
|---|---|---|---|---|

| | | | 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 | Yes | | |
| 4 | Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template | no | | |
| 5 | Is the contamination related to operations at the facility (either current and/or historic) | no | | |
| 6 | Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site | no | | |
| 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? | yes | | This is the first year of well monitoring as part of the license. There was elevated ammonia compared to GTV'S |
| 12 | Is there evidence that contamination is migrating offsite? | no | | |

**Table 1: Upgradient Groundwater monitoring results**

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

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 26/06/2014 | Bore hole | pH | | Annual | | 7.2 | *pH units* | *6.5-9.5* | IGV | first year |
| 26/06/2014 | Bore hole | NH3-N | | Annual | | **0.18** | *mg/l* | *0.15* | IGV | first year |
| 26/06/2014 | Bore hole | BOD | | Annual | | <2 | *mg/l O2* | - | IGV | first year |
| 26/06/2014 | Bore hole | COD | | Annual | | <10 | *mg/l O2* | - | IGV | first year |
| 26/06/2014 | Bore hole | Conductivity @ 25°C | | Annual | | 767 | *µS/cm* | *1000* | IGV | first year |

| Groundwater/Soil monitoring template | | | | | Lic No: | W0253 | | Year | 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 26/06/2014 | Bore hole | Suspended solids | | Annual | | <5 | mg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | Total Nitrogen | | Annual | | <1 | mg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | P04-P | | Annual | | <0.01 | mg/l | 0.03 | IGV | first year |
| 26/06/2014 | Bore hole | Atrazine ** | | Annual | | <0.02 | µg/l | 1.0 | IGV | first year |
| 26/06/2014 | Bore hole | Simazine ** | | Annual | | <0.02 | µg/l | 1.0 | IGV | first year |
| 26/06/2014 | Bore hole | **Dichlorvos**** | | Annual | | <0.01 | µg/l | 0.001 | IGV | first year |
| 26/06/2014 | Bore hole | **Mevinphos**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **alpha-HCH/Lindane**** | | Annual | | <0.01 | µg/l | 0.1 | IGV | first year |
| 26/06/2014 | Bore hole | **Diazinon**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **gamma-HCH/Lindane**** | | Annual | | <0.01 | µg/l | 0.1 | IGV | first year |
| 26/06/2014 | Bore hole | **Heptachlor**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Aldrin**** | | Annual | | <0.01 | µg/l | 0.01 | IGV | first year |
| 26/06/2014 | Bore hole | **beta-HCH/Lindane**** | | Annual | | <0.01 | µg/l | 0.1 | IGV | first year |
| 26/06/2014 | Bore hole | **Methyl Parathion**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Malathion**** | | Annual | | <0.01 | µg/l | 0.01 | IGV | first year |
| 26/06/2014 | Bore hole | **Fenitrothion**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Heptachlor Epoxide**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Parathion**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o,p-DDE**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Endosulfan I**** | | Annual | | <0.01 | µg/l | 0.001 | IGV | first year |
| 26/06/2014 | Bore hole | **p,p-DDE**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dieldrin**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o,p-TDE**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Endrin**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o,p-DDT**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **p,p-TDE**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Ethion**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Endosulfan II**** | | Annual | | <0.01 | µg/l | 0.001 | IGV | first year |
| 26/06/2014 | Bore hole | **p,p-DDT**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o,p-Methoxychlor**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **p,p-Methoxychlor**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Endosulfan Sulphate**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Azinphos Methyl**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Tecnazene**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Trifluralin**** | | Annual | | <0.01 | µg/l | 0.1 | IGV | first year |
| 26/06/2014 | Bore hole | **Hexachlorobenzene**** | | Annual | | <0.01 | µg/l | 0.03 | IGV | first year |
| 26/06/2014 | Bore hole | **Quintozene(PCNB)**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Triallate**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chlorothalonil**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Triadimefon**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Pendimethalin**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **heptachlor epoxide**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o, p'-DDE**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Endosulphan I**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **p,p'-DDE**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **p,p'-TDE(DDD)**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Endosulphan II**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o,p'-TDE(DDD)**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **o, p'-Methoxychlor**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **p, p'-Methoxychlor**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Permethrin 1**** | | Annual | | <0.01 | µg/l | - | IGV | first year |

| Groundwater/Soil monitoring template | | | | | Lic No: | W0253 | | Year | 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 26/06/2014 | Bore hole | **Permethrin 11**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Telodrin**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Isodrin**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **trans-Chlordane**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **cis-Chlordane**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Ethion **** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dimethoate**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Propetamphos**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Etrimphos**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chlorphyrifos-methyl**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Fenthion**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chlorpyrifos**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chlorfenvinphos**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Triazophos**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Carbophenothion**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Phosalone**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Azinphos ethyl**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Azinphos methyl**** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Disulphoton** | | Annual | | <0.01 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,2,4-Trichlorobenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,2-Dichlorobenzene**** | | Annual | | <1 | µg/l | 10 | IGV | first year |
| 26/06/2014 | Bore hole | **1,3-Dichlorobenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,4-Dichlorobenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2,4,5-Trichlorophenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2,4,6-Trichlorophenol**** | | Annual | | <1 | µg/l | 200 | IGV | first year |
| 26/06/2014 | Bore hole | **2,4-Dichlorophenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2,4-Dimethylphenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2-Chloronaphthalene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2-Chlorophenol**** | | Annual | | <1 | µg/l | 200 | IGV | first year |
| 26/06/2014 | Bore hole | **2-Methylnaphthalene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2-Methylphenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2-Nitroaniline**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2-Nitrophenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **3-Nitroaniline**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Bromophenylphenylether**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Chloro-3-methylphenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Chloroaniline**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Chlorophenylphenylether**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Methylphenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Nitrophenol**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Nitroaniline**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Azobenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Acenaphthene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Anthracene**** | | Annual | | <1 | µg/l | 10000 | IGV | first year |
| 26/06/2014 | Bore hole | **Bis(2-Chloroethyl)ether**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Bis(2-chloroethoxy)methane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Bis(2-ethylhexyl)phthalate**** | | Annual | | <2 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Benzo(a)anthracene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Butylbenzylphthalate**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Benzo(a)pyrene**** | | Annual | | <1 | µg/l | 0.01 | IGV | first year |
| 26/06/2014 | Bore hole | **Benzo(ghi)perylene**** | | Annual | | <1 | µg/l | 0.05 | IGV | first year |

| Groundwater/Soil monitoring template | | | | | Lic No: | W0253 | | Year | 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 26/06/2014 | Bore hole | **Carbazole**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chrysene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dibenzofuran**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Diethyl phthalate**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dibenzo(a,h)anthracene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dimethyl phthalate**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Flourene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **hexachlorobutadiene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Pentachlorophenol**** | | Annual | | <1 | µg/l | 2 | IGV | first year |
| 26/06/2014 | Bore hole | **Phenol**** | | Annual | | <1 | µg/l | 0.5 | IGV | first year |
| 26/06/2014 | Bore hole | **N-nitrosodi-n-propylamine**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Hexachloroethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Nitrobenzene**** | | Annual | | <1 | µg/l | 10 | IGV | first year |
| 26/06/2014 | Bore hole | **Naphthalene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Isophorone**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Hexachlorocyclopentadiene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Phenanthrene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Indenol(1,2,3-cd)pyrene**** | | Annual | | <1 | µg/l | 0.05 | IGV | first year |
| 26/06/2014 | Bore hole | **Pyrene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dichlorodifluoromethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chloromethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Vinyl chloride**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Bromomethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chloroethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Trichlorofluoromethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,1-Dichloroethene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dichloromethane**** | | Annual | | <3 | µg/l | 10 | IGV | first year |
| 26/06/2014 | Bore hole | **trans-1,2-Dichloroethene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,1-Dichloroethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2,2-Dichloropropane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **cis-1,2-Dichloroethene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Bromochloromethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Chloroform**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,1,1-Trichloroethane**** | | Annual | | <1 | µg/l | 500 | IGV | first year |
| 26/06/2014 | Bore hole | **Carbon Tetrachloride**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,1-Dichloropropene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Benzene**** | | Annual | | <1 | µg/l | 1.0 | IGV | first year |
| 26/06/2014 | Bore hole | **1,2-Dichloroethane**** | | Annual | | <1 | µg/l | 3.0 | IGV | first year |
| 26/06/2014 | Bore hole | **Trichloroethene**** | | Annual | | <1 | µg/l | 70 | IGV | first year |
| 26/06/2014 | Bore hole | **1,2-Dichloropropane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Dibromomethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Bromodichloromethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Toluene**** | | Annual | | <1 | µg/l | 10 | IGV | first year |
| 26/06/2014 | Bore hole | **1,1,2-Trichloroethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,2-Dibromoethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,1,1,2-Tetrachloroethane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **m,p-Xylene**** | | Annual | | <1 | µg/l | 10 | IGV | first year |
| 26/06/2014 | Bore hole | **Styrene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **Isopropylbenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **n-propylbenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **2-Chlorotoluene**** | | Annual | | <1 | µg/l | - | IGV | first year |

| Groundwater/Soil monitoring template | | | | | Lic No: | W0253 | | Year | 2014 | |
|---|---|---|---|---|---|---|---|---|---|---|
| 26/06/2014 | Bore hole | **4-Chlorotoluene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,2,4-Trimethylbenzene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **4-Isopropyltoluene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **1,3-Dichloropropane**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **cis-1,3-Dichloropropene**** | | Annual | | <1 | µg/l | - | IGV | first year |
| 26/06/2014 | Bore hole | **trans-1,3-Dichloropropene**** | | Annual | | <1 | µg/l | - | IGV | SELECT |
| 26/06/2014 | Bore hole | **Dibromochloromethane**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **Chlorobenzene**** | | Annual | | <1 | µg/l | 1.0 | IGV | |
| 26/06/2014 | Bore hole | **Ethyl Benzene**** | | Annual | | <1 | µg/l | 10 | IGV | |
| 26/06/2014 | Bore hole | **o-Xylene**** | | Annual | | <1 | µg/l | 10 | IGV | |
| 26/06/2014 | Bore hole | **Bromoform**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **1,2,3-Trichloropropane**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **Bromobenzene**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **Tert-Butylbenzene**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **Sec-Butylbenzene**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **1,3,5-Trimethylbenzene**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **1,2- Dibromo-3-chloropropane**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **Hexachlorobutadiene**** | | Annual | | <1 | µg/l | 0.1 | IGV | |
| 26/06/2014 | Bore hole | **1,2,3-Trichlorobenzene**** | | Annual | | <1 | µg/l | - | IGV | |
| 26/06/2014 | Bore hole | **Tetrachloroethene**** | | Annual | | <1 | µg/l | 2.0 | IGV | |
| 26/06/2014 | Bore hole | **n-butylbenzene**** | | Annual | | <1 | µg/l | - | IGV | 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

| Groundwater/Soil monitoring template | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|

**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)

| Environmental Liabilities template | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|

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

| | | | Commentary |
|---|---|---|---|
| 1 | ELRA initial agreement status | Required but not submitted | in preparation bu Anua |
| 2 | ELRA review status | Review required and not completed; | |
| 3 | Amount of Financial Provision cover required as determined by the latest ELRA | unknown | |
| 4 | Financial Provision for ELRA status | Required but not submitted | |
| 5 | Financial Provision for ELRA - amount of cover | unknown | |
| 6 | Financial Provision for ELRA - type | ironmental Impairment Liability insurance | |
| 7 | Financial provision for ELRA expiry date | Enter expiry date | |
| 8 | Closure plan initial agreement status | Required but not submitted | |
| 9 | Closure plan review status | Review required and not completed | |
| 10 | Financial Provision for Closure status | Required but not submitted | |
| 11 | Financial Provision for Closure - amount of cover | unknown | |
| 12 | Financial Provision for Closure - type | ironmental Impairment Liability insura | Not |
| 13 | Financial provision for Closure expiry date | Enter expiry date | |

**Environmental Management Programme/Continuous Improvement Programme template** Lic No: W0253 Year 2014

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 | Planned ISO 14001 audit in Q3 2015 |
| 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 |
|---|---|---|---|---|---|
| Additional improvements | Continued roll out Environmental Management System | 85 | ISO 14001 implemetation under way | Section Head | Improved Environmental Management Practices |
| Additional improvements | To ensure that all employees are made aware of conditions set out in EPA Licence W0253-01 and the requirements set out in the Environmental Management System | 100 | All employees trained | Individual | Increased compliance with licence conditions |
| Additional improvements | Establish and maintain a programme for maintenance of all plant and equipment as per Condition 2.2.2.8 of Waste Licence | 100 | Maintenance is planned and organised by maintenance department | Individual | Improved Environmental Management Practices |
| Additional improvements | Management Team to review compliance with licence conditions, EMS,Improvements and Objective & Targets set out. | 100 | Quarterly reviews take place | Individual | Increased compliance with licence conditions |
| Reduction of emissions to Water | As per Waste Licence: Should any limits be exceeded, corrective actions to be implemented. | 100 | Review of waste figures required | Individual | Improved Environmental Management Practices |
| Additional improvements | Label and provide safe permanent access to all onsite sampling and monitoring points in accordance with Condition 3.5 of Waste Licence | 100 | All monitoring locations are number and safe access is in place | Individual | Increased compliance with licence conditions |
| Materials Handling/Storage/Bunding | Construct an enclosed building capable of containing all emissions arising fiom the Construction and Demolition Waste Recovery Area | 60 | Awaiting fire cert and construction will commence in Q3 2015 | Individual | Increased compliance with licence conditions |
| Reduction of emissions to Water | Install manual Shut-off valves on surface/wastewater discharge drains. ID the valves at location. | 60 | Installated in Wastewater system. To be installed on surface water | Individual | Increased compliance with licence conditions |
| Reduction of emissions to Water | Develop procedures for manual shut down of valves. Include in EMS and training records. | 70 | Procedure in place | Individual | Increased compliance with licence conditions |
| Reduction of emissions to Water | Review stormwater drainage from roof area and access the civil works associated with the diversion of roof storm water directly to stream | 60 | New drainage system to be installed in 2015 | Individual | Increased compliance with licence conditions |
| Reduction of emissions to Water | Review progress against stormwater trigger values from yard runoff and detail action items to reduce at source | 100 | Naturally high ammonia in groundwater needs investigation | Individual | Increased compliance with licence conditions |
| Materials Handling/Storage/Bunding | Label and identify waste quarantine area | 100 | waste quarantine area labelled | Individual | Increased compliance with licence conditions |
| Materials Handling/Storage/Bunding | Review storage of tanks, drums and container areas. Demonstrate that all storage areas are impervious to materials stored therein and repair if necessary | 100 | bunding on site is within fuel storage area | Section Head | Increased compliance with licence conditions |
| Reduction of emissions to Water | Review total surface area flow to each interceptor. Identify a supplier and obtain quotation. Purchase and install interceptors | 100 | site recovery rain water for re | Individual | Increased compliance with licence conditions |

| Environmental Management Programme/Continuous Improvement Programme template | | | | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|---|---|---|
| Reduction of emissions to Air | Install in a prominent location on the site a wind sock as per Condition 3.22 of Waste Licence | 100 | Wind sock installed | Individual | Increased compliance with licence conditions | | |
| Additional improvements | Weather Monitoring Station as per Condition 3.23 of Waste Licence | 60 | Wind Station order on 25/03/15 | Individual | Increased compliance with licence conditions | | |
| Additional improvements | Investigate if Wheel wash as per Condition 3.24 of Waste Licence is necessary. Identify supplier of Weighbridge and Wheel Cleaner | 40 | Wheel wash | Section Head | Increased compliance with licence conditions | | |
| Reduction of emissions to Water | Assessment of Fire-water Retention | 50 | Risk Assessment under preparation by Anua | Section Head | Increased compliance with licence conditions | | |
| Materials Handling/Storage/Bunding | Review requirements for additional receptacles at the facility for the disposal of absorbent material, oily rags, hydraulic hoses and oil filters. | 100 | All hazardous waste seperated and disposed off correctly | Section Head | Increased compliance with licence conditions | | |
| Materials Handling/Storage/Bunding | Carry out integrity testing on all underground tanks and pipes in accordance with Condition 6.10 of Waste Licence | 60 | Testing of all bunds scheduled | Section Head | Improved Environmental Management Practices | | |
| Noise reduction | Prepare programme for the identification and reduction of noise emissions in accordance with Condition 6.13 of Waste Licence. The programme shall be reviewed annually. | 100 | monitoring programme in place | Individual | Increased compliance with licence conditions | | |
| Additional improvements | Setup and update Data Management System as per Condition 6.17 of Waste Licence | 70 | data system in place need and will be incorporated into EMS | Individual | Increased compliance with licence conditions | | |
| Energy Efficiency/Utility conservation | To carry out an Energy Efficiency Audit in accordance with Condition 7.1 of Waste Licence | 70 | Energy Audit under way list of all operating equipment in place | Individual | Increased compliance with licence conditions | | |
| Energy Efficiency/Utility conservation | To carry out and assessment of the efficiency of use of raw materials in all processes | 70 | Included in as part of the Energy Audit | Individual | Reduced emissions | | |
| Reduction of emissions to Water | Reduce water consumption onsite | 70 | Included in as part of the Energy Audit | Individual | Increased compliance with licence conditions | | |
| Additional improvements | Prepare Accident Prevention Procedure as per Condition 9.1 of Waste Licence | 90 | Accident Prevention Procedure in place and will be incorporated into EMS | Individual | Reduced emissions | | |
| Additional improvements | Prepare Emergency Response Procedure as per Condition 9.2 of Waste Licence | 80 | Emergency response produce in place. Training required | Section Head | Increased compliance with licence conditions | | |
| Additional improvements | Prepare Decommissioning Management Plan (DMP) as per Condition 10.2 of Waste Licence | 60 | DMP plan is under preparation by Anua | Individual | Improved Environmental Management Practices | | |
| Additional improvements | Prepare Environmental Liabilities Risk Assessment as per Condition 12.2 of Waste Licence | 60 | DMP plan is under preparation by Anua | Individual | Improved Environmental Management Practices | | |
| Energy Efficiency/Utility conservation | Prepare report examining waste recovery options in accordance with Condition 11.14 of Waste Licence | 80 | Waste recovery will be examined to determine recovery rates | Individual | Improved Environmental Management Practices | | |
| | | | | | | | |
| | | | | | | | |
| SELECT | | | | | | | |
| SELECT | | | | | | | |
| SELECT | | SELECT | | SELECT | SELECT | | |
| SELECT | | SELECT | | SELECT | SELECT | | |
| SELECT | | SELECT | | SELECT | SELECT | | |

| Noise monitoring summary report | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|

| | | |
|---|---|---|
| 1 | Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below | SELECT |
| 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) | SELECT |
| 3 | Does your site have a noise reduction plan | SELECT |
| 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? | SELECT |

**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)? |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 26/03/2014 | day | Offsite | NSL1 | 51 | 54 | 41 | 79 | No | No | | Yes |
| 26/03/2014 | day | Offsite | NSL1 | 56 | 61 | 41 | 75 | No | No | Dog barking | Yes |
| 26/03/2014 | day | Offsite | NSL1 | 66 | 70 | 41 | 84 | No | No | Dog barking | Yes |
| 26/03/2014 | day | Offsite | NSL2 | 44 | 55 | 44 | 79 | No | No | | Yes |
| 26/03/2014 | day | Offsite | NSL2 | 63 | 66 | 41 | 89 | No | No | | Yes |
| 26/03/2014 | day | Offsite | NSL2 | 58 | 54 | 38 | 85 | No | No | | Yes |
| 26/03/2014 | day | Offsite | NSL3 | 49 | 53 | 43 | 66 | No | No | | Yes |
| 26/03/2014 | day | Offsite | NSL3 | 46 | 49 | 41 | 71 | No | No | | Yes |
| 26/03/2014 | day | Offsite | NSL3 | 50 | 51 | 40 | 73 | No | No | | Yes |
| 26/03/2014 | evening | Offsite | NSL1 | 49 | 46 | 35 | 71 | No | No | | Yes |
| 26/03/2014 | evening | Offsite | NSL2 | 53 | 48 | 32 | 82 | No | No | | Yes |
| 26/03/2014 | evening | Offsite | NSL3 | 45 | 38 | 20 | 84 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL1 | 51 | 54 | 41 | 79 | No | No | Dog barking | Yes |
| 26/06/2014 | day | Offsite | NSL1 | 56 | 61 | 41 | 75 | No | No | Dog barking | Yes |
| 26/06/2014 | day | Offsite | NSL1 | 66 | 70 | 41 | 84 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL2 | 44 | 55 | 44 | 79 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL2 | 63 | 66 | 41 | 89 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL2 | 58 | 54 | 38 | 85 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL3 | 49 | 53 | 43 | 66 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL3 | 46 | 49 | 41 | 71 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL3 | 50 | 51 | 40 | 73 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL1 | 49 | 46 | 35 | 71 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL2 | 53 | 48 | 32 | 82 | No | No | | Yes |
| 26/06/2014 | day | Offsite | NSL3 | 45 | 38 | 20 | 84 | No | No | | Yes |
| 26/06/2014 | evening | Offsite | NSL1 | 59 | 60 | 39 | 87 | No | No | Dog barking | Yes |
| 26/06/2014 | evening | Offsite | NSL2 | 51 | 54 | 42 | 71 | No | No | | Yes |
| 26/06/2014 | evening | Offsite | NSL3 | 47 | 43 | 32 | 74 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL1 | 50 | 54 | 41 | 68 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL1 | 52 | 54 | 46 | 71 | No | No | Dog barking | Yes |
| 29/09/2014 | day | Offsite | NSL1 | 53 | 56 | 46 | 70 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL2 | 59 | 51 | 32 | 84 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL2 | 58 | 51 | 30 | 86 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL2 | 60 | 58 | 41 | 88 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL3 | 41 | 43 | 30 | 70 | No | No | | Yes |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 29/09/2014 | day | Offsite | NSL3 | 42 | 44 | 29 | 70 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL3 | 45 | 47 | 36 | 70 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL1 | 49 | 46 | 35 | 71 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL2 | 53 | 48 | 32 | 82 | No | No | | Yes |
| 29/09/2014 | day | Offsite | NSL3 | 45 | 38 | 20 | 84 | No | No | | Yes |
| 29/09/2014 | evening | Offsite | NSL1 | 30 | 48 | 30 | 78 | No | No | | Yes |
| 29/09/2014 | evening | Offsite | NSL2 | 30 | 56 | 27 | 82 | No | No | | Yes |
| 29/09/2014 | evening | Offsite | NSL3 | 30 | 43 | 40 | 72 | No | No | | Yes |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | 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: W0253 Year 2014

| | | | Additional information |
|---|---|---|---|
| 1 | When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below | Enter date of audit | schedule for May 2015 |
| 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) Yes | |
| 3 | Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information | 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) | 264.462 | 273.393 | | |
| Total Energy Generated (MWHrs) | | | | |
| Total Renewable Energy Generated (MWHrs) | | | | |
| Electricity Consumption (MWHrs) | | | | |
| Fossil Fuels Consumption: | | | | |
| Heavy Fuel Oil (m3) | | | | |
| Light Fuel Oil (m3) | 73.5 | 75.2 | | |
| Natural gas (m3) | | | | |
| Coal/Solid fuel (metric tonnes) | | | | |
| Peat (metric tonnes) | | | | |
| Renewable Biomass | 6.1 tonnes | 6.0 tonnes | | |
| 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($m^3$yr): | Volume used i.e not discharged to environment e.g. released as steam m3/yr | Unaccounted for Water: |
| Groundwater | | | | | | | |
| Surface water | | | | | | | |
| Public supply | 45 | 50 | | | 50 | 0 | 0 |
| Recycled water | 25 | 25 | | | 25 | 0 | 0 |
| Total | 70 | 75 | | | 75 | 0 | 0 |

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

| Resource Usage/Energy efficiency summary | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|

## Complaints and Incidents summary template

Lic No: W0253 Year 2014

### 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 | SELECT | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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: | W0253 | Year | 2014 |
|---|---|---|---|---|
| SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES | | PRTR facility logon | dropdown list click to see options | |

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

| | | | Additional Information |
|---|---|---|---|
| 1 | Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below | Yes | |
| 2 | Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information | Yes | abestos waste arrived in a covered skip, indaver came onto the site and bagged waste for disposal |
| 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<br>European Waste Catalogue EWC codes | Source of waste accepted | Description of waste accepted<br>**Please enter an accurate and detailed description - which applies to relevant EWC code**<br>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 - |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 150104 | *15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED* | **Aluminium** | 0.32 | | | | | *R4- Recycling/reclamation of metals and metal compounds* | *0* | |
| | 200201 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Brown Bin Waste** | 877.586 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200307 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Bulky** | 2733.949 | | | | | *D1-Deposit into or onto land* | | |
| | 170411 | *17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)* | **Cable** | 1.54 | | | | | *R4- Recycling/reclamation of metals and metal compounds* | | |
| | 150101 | *15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED* | **Cardboard** | 677.691 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 80318 | *08- WASTES FORM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS,) ADHESIVES, SEALANTS AND PRINTING INKS* | **Cartridges** | 824.88 | | | | | *R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials* | | |

| WASTE SUMMARY | | | | | Lic No: | W0253 | | Year | 2014 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 191210 | *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* | **Combustible Waste (RDF** | 475.71 | | | | | *R1-Use principally as a fuel or other means to generate energy* | | |
| | 200201 | *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* | **Garden Waste** | 60.86 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 170203 | *17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)* | **Hard Plastic** | 189.78 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200139 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **HDPE Bottles** | 43.02 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200307 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Matresses** | 34.92 | | | | | *D1-Deposit into or onto land* | | |
| | 170407 | *17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)* | **Metal from C&D Sites** | 56.8 | | | | | *R4- Recycling/reclamation of metals and metal compounds* | | |
| | 170904 | *17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)* | **Mixed C&D** | 756.37 | | | | | *R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials* | | |
| | 170107 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Mixed Concrete and Bric** | 122.06 | | | | | *R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials* | | |
| | 200301 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Mixed Dry Recyclables** | 8,626 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 150107 | *15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED* | **mixed Glass** | 761.3 | | | | | *R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials* | | |

| WASTE SUMMARY | | | | | Lic No: | W0253 | | Year | 2014 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 200140 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Mixed Metal** | 33.58 | | | | | *R4- Recycling/reclamation of metals and metal compounds* | | |
| | 200139 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Mixed Plastic Bottles** | 10.96 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200301 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Mixed Waste** | 26491.955 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200101 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Paper** | 1353.74 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200101 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Paper Shredding** | 14.92 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200139 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **PET Bottles** | 25.78 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 170802 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Plasterboard** | 4.32 | | | | | *D1-Deposit into or onto land* | | |
| | 200139 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Plastic Film** | 5.16 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200102 | *08- WASTES FORM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS,) ADHESIVES, SEALANTS AND PRINTING INKS* | **Plate Glass** | 44.78 | | | | | *R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials* | | |

| WASTE SUMMARY | | | | | Lic No: | W0253 | | Year | 2014 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 200139 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **Polyethylene** | 1.71 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 200136 | *20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS* | **WEEE** | 1.86 | | | | | *R4- Recycling/reclamation of metals and metal compounds* | | |
| | 191207 | *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* | **Wood Chip** | 13.16 | *addto wood waste* | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | 170201 | *17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)* | **Wood from C&D Sites** | 907.09 | | | | | *R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological transformation processes)which includes gasification and pyrolisis* | | |
| | | | | | | | | | | | |
| | | | | *45151.851* | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**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? | No | Currently reviewing proposals for Odour Abatement |
| 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 | | | | | | | | | | | | |

| WASTE SUMMARY | Lic No: | W0253 | Year | 2014 |
|---|---|---|---|---|

**WASTE SUMMARY** Lic No: W0253 Year 2014

## Table 4 Environmental monitoring-landfill only

Landfill Manual-Monitoring Standards

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

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

## Table 5 Capping-Landfill only

| Area uncapped* | Area with temporary cap | Area with final cap to LD Standard m2 ha, a | Area capped other | Area with waste that should be permanently capped to date under licence | What materials are used in the cap | Comments |
|---|---|---|---|---|---|---|
| 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(m3) | Leachate (BOD) mass load (kg/annum) | Leachate (COD) mass load (kg/annum) | Leachate (NH4) mass load (kg/annum) | Leachate (Chloride) mass load kg/annum | Leachate treatment on-site | Specify type of leachate treatment | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

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

## Table 7 Landfill Gas-Landfill only

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

| Comments on liner type |
| --- |
| |