| AER Reporting Year | 2014 |
|----------------------------------|----------------------------------|
| Licence Register Number | W0049-02 |
| Name of site | Clophullogue Ash Repository |
| | Groupanogue Part Republicity |
| Site Location | Cloncreen Clonbullogue Co Offaly |
| NACE Code | 3821 |
| Class/Classes of Activity | 3.1 |
| National Grid Reference (6F 6 N) | 25044 225420 |

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

| 259444, 225189 | 3.1 | 3821 | Cloncreen Clonbullogue Co Offaly | Clonbullogue Ash Repository | W0049-02 | +TU2 |
|----------------|-----|------|----------------------------------|-----------------------------|----------|------|
| 259444, 225189 | 3.1 | 3821 | een Clonbullogue Co Offaly | bullogue Ash Repository | | |

ongoing during the reporting period, works consisting of general preparatory earthworks. submitted were 90% complete at the end of the reporting period. Future cell development was capping will be to the specification of cells 1 and 3B. The leachate management works as the placement of a new improved capping system on cell 1, it is envisaged that all future finalised which is seeking permission to cap cell 2 and will be submitted shortly. In relation to were fully compliant. Following on from the successful relining of the leachate lagoon, cell 1 was successfully capped as per the submitted SEW, as was cell 3B. A proposal is currently being portal at the time. In relation to all remaining site monitoring and laboratory analysis, all results to an elevated suspended soilids result at L2. The Agency was informed through the ALDER environmental nature during the reporting period. There was 1 non compliances which related The facility is licensed to accept 70,000 tonnes per annum of bottom and fly ash generated tonnes of bottom ash and 23,626 tonnes of fly ash. There were no complaints of an total of 26,086 tonnes of ash was delivered and placed in the site. This was made up of 2,460 from the combustion of Peat/Biomass/MBM at Edenderry Power Ltd. In the reporting year a

Declaration:

All the data and information presented in this report has been checked tified as being

| (or nominated, suitably qualified and | Group/Facility manager | Signature | & miller |) |
|---------------------------------------|------------------------|-----------|----------|--|
| | 9 | Date | 25-2-15 | Control of the contro |

| | AIR-summary template | Lic No: | #REF! | Year | #REF! |
|---|--|---------|--------------------------|--|-------|
| | Answer all questions and complete all tables where relevant | | | | |
| 1 | Does your site have licensed air emissions? If yes please complete table A1 and A2 below for the current reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you do not need to complete the tables | No | Fugitive Dust Monitoring | nal information g. Results entered in Table A2 as ed by the Agency | |
| | 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 | f No | | | |
| 3 | Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? checklist AGN2 | Yes | | | |
| | Table A1: Licensed Mass Emissions/Ambient data-periodic monitoring (non-continuous) | | | | |

| Emission reference no: | Parameter/ Substance | Frequency of | ELV in licence or any revision therof | Licence Compliance criteria | Measured value | | Compliant with licence limit | | 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 SELECT | | |

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

| AIR-summary template | Lic No: | #REF! | Year | #REF! |
|--|---------|-------|------|-------|
| Continuous Monitoring | | | | |
| Does your site carry out continuous air emissions monitoring? | No | | | |
| If yes please review your continuous monitoring data and report the required fields below in Table A2 and com it to its relevant Emission Limit Value (ELV) | pare | | | _ |
| Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below | No | | | |
| 6 Do you have a proactive service agreement for each piece of continuous monitoring equipment? | No | | | |
| Did your site experience any abatement system bypasses? If yes please detail them in table A3 below Table A2: Summary of average emissions -continuous monitoring | No | | | |

| 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 any | | | | | | | reporting year | |
| | | revision therof | | | | | | | | |
| DM-01 | Total Particulates | 350 mg/m2/day | 140 | Daily average < ELV | mg/m2/day | 314 | 89 | 0 | 0 | |
| DM-02 | Total Particulates | 350 mg/m2/day | 140 | Daily average < ELV | mg/m2/day | 575 | 227 | 0 | 0 | |
| DM-03 | Total Particulates | 350 mg/m2/day | 140 | Daily average < ELV | mg/m2/day | 305 | 105 | 0 | 0 | |
| DM-04 | Total Particulates | 350 mg/m2/day | 140 | Daily average < ELV | mg/m2/day | 320 | 86 | 0 | 0 | |
| | SELECT | | | | SELECT | | | | | |

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

Table A3: Abatement system bypass reporting table

| Зγ | pass | s p | ro | to | CC |
|----|------|-----|----|----|----|
| | | | | | |

| 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: #REF! Year | #RE |
|---|-----|
| Solvent use and management on site | |
| Do you have a total Emission Limit Value of direct and fugitive emissions on site? If yes please fill out tables A4 and A5 No | |
| Table A4: Solvent Management Plan Summary Total VOC Emission limit value Please refer to linked solvent regulations to complete table 5 and 6 | |
| Reporting year Total solvent input on site (kg) Total VOC emissions as %of site (direct and fugitive) Total VOC emissions as %of solvent input (ELV) in licence or any revision therof | |
| SELECT | |
| SELECT SELECT | |
| Table A5: Solvent Mass Balance summary | |
| (I) Inputs (kg) (O) Outputs (kg) | |
| Solvent (I) Inputs (kg) Organic solvent emission in waste of water (kg) Organic solvent (kg) Fugitive Organic Solvent released in Solvents destroyed on site through on site through Solvent to air | |
| | |
| | |
| | |

| AEF | R Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | Lic No: | #REF! | | Year | #REF! | |
|-------|---|-----|----------------------|--------------------------------------|---------------|------|-------|---|
| - | | | | Additional information | | | | |
| 1 F | pes 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 ther 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 | | All monitoring resul | ts are attached seperately as advis | ed by the EPA | | | |
| 2 dis | as it a requirement of your licence to carry out visual inspections on any surface water scharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections | Yes | All monitoring resul | ts are attached seperately as adviso | ed by the EPA | | | |
| | Table W1 Storm water monitoring | | | | | | | 1 |

| Location reference | Location relative to site activities | PRTR Parameter | Licenced Parameter | ELV or trigger level in licence or any revision thereof* | ('ompliance | Measured value | Unit of measurement | Compliant with licence | Comments |
|--------------------|--------------------------------------|----------------|-----------------------|---|-------------|----------------|---------------------|------------------------|----------|
| | SELECT | SELECT | SELECT | | SELECT | | SELECT | SELECT | |
| | SELECT | SELECT | SELECT | | SELECT | | SELECT | SELECT | |

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

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

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

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

| 3 | Was there any result in breach of licence requirements? If yes please provide brief details in the comment section of Table W3 below | | | | Emission limit value exceeded at L2 | |
|---|--|-------------------------------------|-------|-----|-------------------------------------|--|
| | | | | | | |
| | 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 | <u>Lab Quality</u> <u>Assessmen</u> | of | | | |
| 4 | require improvement in additional information box | checklist results checklist | klist | Yes | | |

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

| | Emission released to | Parameter/ SubstanceNote 1 | Type of sample | | Averaging period | ELV or trigger values in licence or any revision therof ^{Note 2} | | Measured value | | Compliant with licence | | | Annual mass load (kg) | Comments |
|----|-------------------------|-------------------------------|----------------|----------------------------|------------------|--|--|----------------|------|---|----------------------|--------------|-----------------------|-----------------------------------|
| L2 | Water | Suspended Solids | discrete | During discharge events | NA | | All results < 1.5 times ELV, plus 8 from ten results must be < ELV | 59 | mg/L | no (if no please enter details in comments box) | Gravimetric analysis | Method 2540D | NA | Debris build up in discharge pipe |
| | | | | | | | | | | | | | | |

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: | #REF! | ١ | /ear | #REF! | |
|---|----|---------|------------------------|---|------|-------|--|
| Continuous monitoring | | | Additional Information | | | | |
| $_{\rm 5}$ 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 | NA | | | | | | |
| 7 Do you have a proactive service contract for each piece of continuous monitoring equipment on site? | NA | | | | | | |
| 8 Did abatement system bypass occur during the reporting year? If yes please complete table W5 below | NA | | | | | | |
| Table W4: Summary of average emissions -continuous monitoring | | | | | | | |
| | | | | | | | |

| | Emission released to | | Averaging | | | | Monitoring | Number of ELV exceedences in reporting year | Comments |
|--|-------------------------|--------|-----------|--------|--------|--|------------|---|----------|
| | SELECT | SELECT | SELECT | SELECT | SELECT | | | | |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | | | |
| | | | | | | | | | |

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

Table W5: Abatement system bypass reporting table

| Date | Duration (hours) | Location | Resultant | 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 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 81 below listing all new bunds and containment structures on site, in addition to all bunds which falled the integrity test-all bunding structures which falled including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included) Please provide integrity testing frequency period 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) On the site maintain are on site? Additional information Additional information Additional information Yes 2 Yearly Yes On | | |
|--|---------------------------|------------------------|
| ontainment 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 he table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included) Yes 2 Yearly Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" yee units and mobile bunds) | | |
| the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included) Yes 2 Yearly Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" Yes 2 Yearly Yes | | |
| Please provide integrity testing frequency period 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 | | |
| 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 | | |
| type units and mobile bunds) Yes | | |
| | | |
| | | |
| How many of these bunds have been tested within the required test schedule? | | |
| This includes barrel trays located | | |
| How many mobile bunds are on site? 3 within lock up container Are the mobile bunds included in the bund test schedule? No | | |
| How many of these mobile bunds have been tested within the required test schedule? NA | | |
| How man'y sumps on site are included in the integrity test schedule? | | |
| How many of these sumps are integrity tested within the test schedule? | | |
| Please list any sump integrity failures in table B1 Do all sumps and chambers have high level liquid alarms? No | | |
| If yes to O11 are these failsafe system included in an aminenance and testing programme? | | |
| Is the Fire Water Retention Pond included in your integrity test programme? SELECT SELECT | | |
| Table B1: Summary details of bund /containment structure integrity test | | |
| | | |
| | | |
| | | Results of |
| Integrity reports Integrity reports | | etest(if in |
| Sund/Containment maintained on Integrity test failure Maintained on Maintained on Integrity test failure Maintained on Maint | | urrent eporting ye: |
| inductive to Type Special of the type Product containment in actual capacity (capacity required trype of integrity test Office test type results or test date special content is expandation (so words). Select Sele | action taken Torretest Te | eporting yea |
| SELECT SELECT SELECT SELECT SELECT | | |
| Capachy regarded should comply with 25% or 110% containment rule as detailed in your licence So intendry to see the second of the containment rule as detailed in your licence Commentary is as intendry to extend the containment rule as detailed in your licence Commentary is as intendry to extend the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in your licence Commentary is a commentary in the containment rule as detailed in the containment rule as | | |
| has integrity resuring been can red out in accordance with internet requirements and are an structures restea in includes restea in include restea in includes restea in include | | |
| Are channels/transfer systems to remote containment systems tested? | | |
| Are channels/transfer systems compliant in both integrity and available volume? | | |
| | | |
| Pipeline/underground structure testing | | |
| Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all | | |
| we you required by your inceince or unicentiage internal results of unitarity or unicensity or unice | | |
| Please provide integrity testing frequency period SELECT | | |
| please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence) | | |
| Table 82: Summary details of pipeline/underground structures integrity test | | |
| | | |
| | | |
| Type of secondary | | |
| containment Integrity test | | |
| Does this structure have Integrity reports failure explanation Corrective action Scheduled date Results of retest(if in current | | |
| Structure ID Type system Material of construction: Secondary containment? Type integrity testing maintained on site? Results of test <50 words taken for retest reporting year) SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT SELECT | | |
| DELECT DELECT DELECT DELECT DELECT | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Please use commentary for additional details not answered by tables/ questions above | | |

| Co | mm | ents |
|----|----|------|
| | | |

| | | Comments | |
|---|--------|--|---|
| Are you required to carry out groundwater monitoring as part of your licence requirements? Are you required to carry out groundwater monitoring as part of your licence requirements? | yes | Monitoring results are attached seperately as advised by the EPA | Please provide an interpretation of groundwater monitoring data in the |
| 2 Are you required to carry out soil monitoring as part of your licence requirements? | no | , , | interpretation box below or if you require additional space please |
| Do you extract groundwater for use on site? If yes please specify use in comment section | no | | include a groundwater/contaminated land monitoring results 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 Report (link in cell G8) and submit separately through ALDER as a monitoring licensee return AND answer questions 5-12 below. | 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 | NA | | |
| 7 Please specify the proposed time frame for the remediation strategy | NA | | |
| 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? | SELECT | | |
| 11 Have potential receptors been identified on and off site? | yes | | |
| 12 Is there evidence that contamination is migrating offsite? | no | | Please enter interpretation of data here |

Table 1: Upgradient Groundwater monitoring results

| | Sample | | | | | | | | | Upward trend in pollutant 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 |

^{.+} 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

| - unio E. | 20 mig. aaio | iii oi oui iu i | vater intente | ing roounts | | | | | |
|------------------|---------------------------------|-------------------------|---------------|----------------------|--------------------------|--------------------------|------------------|--------|--|
| | | | | | | | | | Upward trend in yearly average pollutant |
| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration | Average Concentration | unit | GTV's* | concentration over last 5 years of monitoring data |
| First First | | | | - 17 | | | SELECT SELECT | | SELECT SELECT |
| | | | | | | | JLLLOI | | JELEGI |

| Groundwater/Soil monitoring template | Lic No: | #REF! | Υ | ear | #REF! | | |
|--|---------------------------------|--|------------------------------|-----------------------------|-------------------------------------|---|--|
| *please note exceedance of generic assessment criteria (GAC) such as a 0 results for a substance indicates that further interpretation of monitoring re Monitoring Guideline Template Report at the link provided and subs | esults is required. In addition | to completing the above table, plea | se complete the Groundwater | Groun | ndwater monito | ring template | |
| More information on the use of soil and groundwater standards/ generic ass criteria (GAC) and risk assessment tools is available in the EPA published guid (see the link in G31) | | nce on the Management of Con | aminated Land and Groundwat | ter at EPA L | censed Sites (El | PA 2013). | |
| **Depending on location of the site and proximity to other sensitive recep e.g. if the site is close to surface water compare to Surface Water Environm to the Dri | | EQS), If the site is close to a drinking | water supply compare results | <u>Surface</u> water EQS | Groundwater regulations GTV's | Drinking water (private supply) standards | Drinking water (public supply) standards |

| Date of location Parameter/ Sampling reference Substance Methodology Monitoring Maximum Average Concentration unit SELECT | |
|--|--|
| | |
| | |
| SELECT SELECT | |
| | |
| | |
| | |
| | |

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

Interim Guideline Values (IGV)

| Environmental Liabilities tem | plate | Lic No: | #REF! | Year | #REF! |
|-------------------------------|-------|---------|-------|------|-------|
| | | | | | |

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

| | | | Commentary |
|-----|---|---------------------------------------|---|
| | | Submitted and not agreed by EPA; | EPA requested further information which is |
| | | | currently being addressed. |
| 1 | ELRA initial agreement status | | |
| | | | |
| | | | |
| | | | |
| 2 | ELRA review status | | |
| 3 | Amount of Financial Provision cover required as determined by the latest ELRA | | |
| | | | |
| 4 | Financial Provision for ELRA status | | |
| 5 | Financial Provision for ELRA - amount of cover | | |
| | | | |
| 6 | Financial Provision for ELRA - type | | |
| | | | |
| | | | |
| 7 | Financial provision for ELRA expiry date | | |
| | | | EPA requested further |
| | | Closure plan submitted and not agreed | information which is currently being addressed. |
| 8 | Closure plan initial agreement status | by EPA | currently being addressed. |
| | | | |
| 9 | Closure plan review status Financial Provision for Closure status | | |
| 10 | Financial Provision for Closure Status | | |
| | | | |
| 11 | Financial Provision for Closure - amount of cover | | |
| 12 | Financial Provision for Closure - type | | |
| 13_ | Financial provision for Closure expiry date | 2034 | |

#REF!

| | Environmental Management Programme/Continuous Improvement Programme | Lic No: | #REF! | Year | |
|---|---|---------|---------------------------|------|---|
| | Highlighted cells contain dropdown menu click to view | | Additional Information | | _ |
| 1 | Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information | Yes | | | |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site | Yes | | | |
| | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance | | | | |
| 3 | with the licence requirements | Yes | | | 1 |
| 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 | Unacreddited internal EMS | 6 | |

| Environmental Management Programm | nvironmental Management Programme (EMP) report | | | | | | | | | | |
|--|--|----------------------|---|----------------|--|--|--|--|--|--|--|
| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes | | | | | | |
| Additional improvements | Conduct all operations on site in accordance with the schedules and conditions of the waste licence and also in conjunction with the restoration and aftercare programme | 70 | All site operations were carried out in compliance with licence conditions. There was however 1 noncompliance in relation to suspended solids at L2. | Individual | Increased compliance with licence conditions | | | | | | |
| Materials Handling/Storage/Bunding | Future cell development | 50 | Initial earth clearing works took place at cell 5. This work comprised of stripping back the cell floor to formation level and the formation of cell embankments with the material. | Section Head | Installation of infrastructure | | | | | | |
| Reduction of emissions to Water | Improved capping system | 90 | Cell one and 3B were fully recapped to the specification submitted.Initial observations would suggest this was successful. A proposal to cap cell 2 is due for submission shortly. | Section Head | Reduced emissions | | | | | | |

| Additional improvements | Leachate Management | 50 | An improved Leachate | Individual | Increased compliance with | |
|------------------------------------|--------------------------|----|--|------------|---------------------------|--|
| | Plan | | management system is | | licence conditions | |
| | 1 Idii | | currently at the final | | | |
| | | | installation phase. This will | | | |
| | | | allow for better leachate | | | |
| | | | | | | |
| | | | management. | | | |
| | | 70 | T | | 15 | |
| Materials Handling/Storage/Bunding | Alternative Ash/Leachate | | , | | Improved Environmental | |
| | use | | uses for both ash and | | Management Practices | |
| | | | leachate is ongoing. | | | |
| | | | l and the state of | | | |
| | | | | | | |

| | | DISC HIGHIOTIC | ing summary | Teport | | | Lic No: | #REF! | Year | #REF! | |
|--|----------------------------|-------------------------------------|--|--------------------|------------------|---------------------|-------------------|---------------------------------|---|---|---|
| 1 Was noise mon If yes please fill | | e requirement fo se summary belo | | 1? | | | Noise | No |] | | |
| 2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? 3 Does your site have a noise reduction plan 4 When was the noise reduction plan last updated? Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey? NA Enter date No No | | | | | | | | | | | |
| Table N1: Noise | e monitoring su | ımmary | | | | | 1 | | | 1 | |
| Date of monitoring T | 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 <u>site</u> compliant with noise limits (day/evening/night)? |
| | | | | | | | | SELECT | SELECT | | SELECT |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| *Please ensure that a | a tonal analysis has h | een carried out as per g | uidance note NG4 Th | ese records must h | e maintained or | site for future in | spection | | | | |
| ricuse erisare triat a | a torial arialysis rias by | serreurieu out as per g | galdance note 1404. Th | ese records mast b | e maintainea oi | isite for rutare in | Spection | | | | _ |
| If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options? | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

** please explain the reason for not taking action/resolution of noise issues?

Any additional comments? (less than 200 words)

Resource Usage/Energy efficiency summary

Lic No:

#RFF!

#REF!

Year

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

SEAI - Large Industry Energy Network (LIEN)

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

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

| | Additional information |
|---------------------|------------------------|
| Enter date of audit | |
| | |
| Yes | |
| NA | |

| Table R1 Energy usage | e on site | | | |
|-------------------------------------|---------------|--------------|---|--|
| | | | Production +/- % compared to previous reporting | Energy Consumption +/- % vs overall site |
| Energy Use | Previous year | Current year | year** | production* |
| Total Energy Used (MWHrs) | 1499 | 1770.98 | | +18.14% |
| Total Energy Generated (MWHrs) | | | | |
| Total Renewable Energy Generated (N | /IWHrs) | | | |
| Electricity Consumption (MWHrs) | 1.3 | 2 | | +53.84% |
| Fossil Fuels Consumption: | | | | |
| Heavy Fuel Oil (m3) | | | | |
| Light Fuel Oil (m3) | 147.47 | 174.096 | | +18.05% |
| Natural gas (m3) | | | | |
| Coal/Solid fuel (metric tonnes) | | | | |
| Peat (metric tonnes) | | | | |
| Renewable Biomass | | | | |
| Renewable energy generated on site | | | | |

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

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

| Table R2 Water usage | e on site | | | | Water Emissions | Water Consumption | |
|----------------------|----------------------|---------------------|--------|-------------|---------------------------------|---|------------------------|
| | Water extracted | | | | Volume Discharged back to | Volume used i.e not discharged to environment e.g. released as steam | |
| Water use | Previous year m3/yr. | Current year m3/yr. | year** | production* | environment(m ³ yr): | m3/yr | Unaccounted for Water: |
| Groundwater | | | | | | | |
| Surface water | | | | | | | |
| Public supply | | | | | | | |
| Recycled water | | | | | | | |
| Total | | | | | | | |

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

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

| Table R3 Waste Stream | Summary | | | | |
|------------------------|---------|----------|--------------|----------|-------|
| | Total | Landfill | Incineration | Recycled | Other |
| Hazardous (Tonnes) | 0 | 0 | 0 | 0 | 0 |
| Non-Hazardous (Tonnes) | 7.91 | 7.91 | 0 | 0 | 0 |

| Resource | e Usage/Energy efficiency sum | nmary | | | Lic No: | #REF! | | Year | #REF! |
|----------|-------------------------------|-------------------------|-------------------------------------|--------------------|----------------------------|---------------------|----------------|------|---------------------|
| | Table R4: Energy Au | idit finding recommenda | tions | | | | | | |
| · | Date of audit | | Description of Measures proposed | Origin of measures | Predicted energy savings % | Implementation date | Responsibility | | Status and comments |
| | | | | SELECT | | | | | |
| | | | | SELECT | | | | | |
| | | | | SELECT | | | | | |

| Table R5: Power Generation: Where | oower is generated onsit | e (e.g. power generatio | n facilities/food and | drink industry)please | complete the following |
|--------------------------------------|--------------------------|-------------------------|-----------------------|-----------------------|------------------------|
| | Unit ID | Unit ID | Unit ID | Unit ID | Station Total |
| Technology | | | | | |
| Primary Fuel | | | | | |
| Thermal Efficiency | | | | | |
| Unit Date of Commission | | | | | |
| Total Starts for year | | | | | |
| Total Running Time | | | | | |
| Total Electricity Generated (GWH) | | | | | |
| House Load (GWH) | | | | | |
| KWH per Litre of Process Water | | | | | |
| KWH per Litre of Total Water used on | Site | | | | |

| Complaints and Incidents summary template | | Lic No: | #REF! | Year | #REF! | |
|--|----|------------------------|-------|------|-------|--|
| Complaints | | | | | | |
| | | Additional information | n | | | |
| 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 | | | | | |
| | | | | | | |

| 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 | C | | | | | | |
| Total complaints closed during reporting year | | | | | | | |
| Balance of complaints end of | | | | | | | |
| reporting year | | 1 | | | | | |

| Incidents | | |
|--|---------------|-------------------|
| | | Additional inform |
| Have any incidents occurred on site in the current reporting year? Please list all incidents for current | ent reporting | |
| year in Table 2 below | Yes | |
| | | |
| *For information on how to report and what | | |
| constitutes an incident What is an incident | | |

year
Total number of incidents previous year
% reduction/ increase

| Table 2 Incluents sur | ilitiai y | | | | | | | | | | | | | |
|-----------------------|-----------------|------------------------|--------------------------|----------|-------------------|--------------|-------------------|---------------|------------|----------------------|--------------|-------------------|------------|---------------|
| | | | | | | Other | Activity in | | | | Preventative | | 1 | |
| | | | Incident category*please | | | cause(please | progress at | | | Corrective action<20 | action <20 | | Resolution | Likelihood of |
| Date of occurrence | Incident nature | Location of occurrence | refer to guidance | Receptor | Cause of incident | specify) | time of incident | Communication | Occurrence | words | words | Resolution status | date | reoccurence |
| 21/05/2014 | Breach of ELV | L2 | 1. Minor | Water | Plant or | | Normal activities | EPA | New | Cleaned out | Ensure | Complete | 11/06/2014 | Low |
| | | | | | equipment issues | | | | | discharge pipe | discharge | | | |
| | | | | | | | | | | | pipe is | | ' | |
| | | | | | | | | | | | regularly | i i | | |
| | | | | | | | | | | | cleaned out. | i i | | |
| | | | | | | | | | | | | | ' | |
| | | | | | | | | | | | <u> </u> | | | <u> </u> |
| Total number of | | | | | | | | | | | | | | |
| incidents current | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| ECTION A PARTY COLUMN CONTROL WASTER CARMANY AND WASTE TRACEPER ON WASTER FACURES When we add to case of the case | WASTE SUMMARY | | | | | Lic No: | #REF! | | Year | #REF! | | |
|--|----------------------------|--|-------------------------------------|-------------------------------|-----------------------------|---|---------------------|-----------------------|-----------------------|-----------------------------------|---------------------------|------------|
| Now water surgeod early general consequent of structured prior to nonce ye deposit at the transmit prior to nonce | SECTION A-PRTR O | N SITE WASTE TREATMENT AND | WASTE TRANSFERS TAB- | TO BE COMPLETED B | Y ALL IPPC AND WA | ASTE FACILITIES | PRTR facility logor | <u>1</u> | dropdown lis | st click to see options | | |
| Action of Primary Action and Primary Action of Pr | | | | | | | | | | | | |
| Action of Primary Action and Primary Action of Pr | | | | | | | | | | | | |
| Accordance information The processing which as projected configurate for treatment prior to incorrecy of disposal of treatment prior to incorrecy of disposal of treatment (port in process) and the properties of the projected configuration of which the control copyring year? If yes places go as before expected and the processing information Was used as excepted onto by our site for recovery, disposal of treatment (port in year prior to incorrect and your sites, as these will have been reported in your PRTR workbook) The properties of the process as excepted onto by our site for recovery, disposal or treatment (port in year prior year year year year year year year yea | | | | | | | • | | | | | |
| Note the control state of the control of shades in the counter of special or freedrings you's figure of shades in the counter reporting you's figure of shades in the public of shades of shad | SECTION B- WASTE | ACCEPTED ONTO SITE-TO BE CO | IMPLETED BY ALL IPPC AN | D WASTE FACILITIES | | | J | A - - | _ | | | |
| Section Color BC COMPLETED BY ALL WASTE FACULTIES (Wester Insight For Insight For Insight Faculties (Insight For Insight Faculties) (Insight Facul | | | | | | | | Additional informatio | 1 | | | |
| The protection of trails in table 1 bilary Table 1 Details of waste accorpted eating part with the accorpted eating part wi | | | or treatment prior to recovery or | disposal within the bound | aries of your facility?; (w | raste generated within your boundaries | V | | | | | |
| We note recipied congruents of waste in the current reporting year? If you please give a bird regularation in the abliticant information. We note the properties of the prope | | , | | | | | res | l | 1 | | | |
| Table 1 Details of wasta accepted onto your site for recovery, disposal or treatment (a not include wastes segmented at your site, as these will have been reported in your PRIR workbook) The consideration of waste accepted control your site for recovery, disposal or treatment (a not include wastes segmented at your site, as these will have been reported in your PRIR workbook) The consideration of waste accepted to the property of wastes accepted to the consideration of the property of th | i yes piease enter details | s iii table i below | | | | | | | 1 | | | |
| Table 1 Details of waste accepted only our site for recovery, disposed or treatment (do not include wastes generated at your site.) Source of waste as excepted only our Waste accepted only our force of waste stories on the property of the Control of the control of the property of the Control of the control of the property of the Control of the control of the property of the Control of the control of the property of the Control of the control of the property of the Control of the control of the property of the Control of the Con | Did your site have any re | ejected consignments of waste in the curre | ent reporting year? If yes please g | ive a brief explanation in th | ne additional information | 1 | 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) The control armony of the contr | | | | | | | | | | | | |
| Comparing from part of the part of water compared from part of the part of water compared from part of the part of water compared from part of the p | | | | | | | No | <u> </u> |] | | | |
| Long-eight for your size (but long-eight for your (brings) size (but long-eight for your (brings | | <u> </u> | | | | <u> </u> | | | , | | 0 | 0 |
| Section C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-To BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE | | EWC code | Source of waste accepted | | | | | | | | | Comments - |
| Secretary Waste Catalogue FVC codes TO T | site (total | | | Please enter an | | , | previous year +/ - | from previous | waste has a packaging | at your site and the description | remaining on | |
| SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES SECTION C-TO BE COMPLETED BY LANDFILL SITES ORLY SECTION C-TO BE COMPLETED BY LANDFILL SITES ORLY SECTION C-TO BE COMPLETED BY LANDFILL SITES ORLY Table 2 Waste type and tonnage—landfill only Waste type permitted and the facilities and subject or section in place for type and an administration of the permitted and administration of the permitted or the permitted and administration of the permitted or the permitted and administration of the permitted or | tonnes/annum) | | | | | | % | reporting year | component | of this operation | | |
| Burgoan Water Catalogue EVE Codes Unread Water Dis WASTIS FROM TREBMAL Unfrested Wood. DISTOR DIST | | | | | | | | | | | | |
| Collaborar EVE Content Collaborar EVE Conten | | | | code | | | | | | |) (···) | |
| 10000 100103 100 WASTES FROM TREBMAL Pry Ash from Peal and Orbeated Word. 100 Wastes FROM TREBMAL Pry Ash from Peal and Orbeated Word. 100 Wastes FROM TREBMAL Pry Ash from Peal and Orbeated Word. 100 Wastes FROM TREBMAL Pry Ash from Peal and Orbeated Word. 100 Wastes FROM TREBMAL PROCESSES. 100 | | European Waste Catalogue EWC codes | | | | | | | | | | |
| positions used at Power Station September 1990 Septem | | | | Catalogue EWC codes | | | | | | | | |
| PROCESSES BOTTOM THERMAL BOTTOM ADDITION THERMAL BOTTOM ADDITION THERMAL BOTTOM ADDITION ADDI | 70,000 | 100103 | | | 23,624 | 26,205 | -10% | | NA | D5- Specially engineered landfill | 433249 | |
| 1000 10010 10010 100 WASTE FROM THESMAL PROCESSES Bottom Ash 2400 10400 7/6% More tomes of participants used at Prover Station 1 NA Description assured at Prover Station 1 NA Description and Prover Station 1 NA Description 1 NA Description 2 NA Descript | | | PROCESSES | Untreated Wood. | | | | | | | | |
| PROCESSES pant/itiomsus used pant/itiomsus use | | | | | | | | | | | | |
| sall waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required on site sall waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required on site N/A Set live a received to your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site N/A N/A N/A N/A N/A N/A N/A N/ | 70,000 | 100101 | | Bottom Ash | 2460 | 10400 | -76% | | NA | D5- Specially engineered landfill | | |
| sall waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite NA NA NA NA NA NA NA NO NO NO | | | PROCESSES | | | | | | | | | |
| sall waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite NA NA NA NA NA NA NA NO NO NO | | | | | | | | | | | | |
| 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 NA NA NA NA NA NA NA NA NA N | | | | | | | | | | | | |
| sall waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite NA NA NA NA NA NA NA NA NA N | | | | | | | | | | | | |
| 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 NA NA NA NA NA NA NA NA NA N | | | | | | | | | | | | |
| 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 N/A | SECTION C-TO BE C | OMPLETED BY ALL WASTE FACIL | ITIES (waste transfer stati | ons, Composters, Ma | aterial recovery faci | ilities etc) EXCEPT LANDFILL SIT | ES | | | | | |
| s 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 N/A | | | | | | | | | | | | |
| Section D-To BE COMPLETED BY LANDFILL SITES ONLY Table 2 Waste type and tonnage-landfill only Waste types permitted Authorised/licenced annual intake for disposal in reporting year (pp) reporting year (pp | | | | | | | | | | | 1 | |
| Does your facility have relevant nuisance controls in place? N/A | s all waste processing in | frastructure as required by your licence a | nd approved by the Agency in pla | ce? If no please list waste p | processing infrastructure | required onsite | N/A | | | | | |
| Does your facility have relevant nuisance controls in place? N/A | | | | | | | | | | | | |
| Does your facility have relevant nuisance controls in place? Do you have an odour management system in place for your facility? If no why? Do you have an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? If no why? Do you make an odour management system in place for your facility? Do you make an odour management system in place for your facility? Do you make an odour management system in place for your facility. Do you make an odour management system in place for your facility. Do you make an odour management system in place for your facility. Do you make an odour management system in place for your facility. Do you make an odour fa | s all waste storage infras | structure as required by your licence and | approved by the Agency in place? | If no please list waste stor | age infrastructure require | ed on site | N/A | | | | | |
| Do you have an odour management system in place for your facility? If no why? Do you maintain a sludge register on site? N/A N/A | | | | | | | | 1 | | | - 1 | |
| Do you maintain a sludge register on site? N/A | | | tv? If no whv? | | | | | | | | | |
| Waste types permitted for disposal (fpa) 70,000 26,084 683,092 Inness Table 3 General information-Landfill only Total disposal Total disposal Total disposal Total disposal | | | .y. 11 110 1111y. | | | | | | | | | |
| Table 2 Waste type and tonnage-landfill only Waste types permitted for disposal (tga) Authorised/licenced annual intake for disposal in reporting year (tga) Fig &Bottom Ash 70,000 26,084 683,092 Tonnes Table 3 General information-Landfill only | OFOTION D. TO DE O | ON ADJETED DV JANDEN JOSEP O | ABIL V | Ī | | | | | | | | |
| Waste types permitted for disposal (tpa) Fly &Bottom Ash 70,000 26,084 Remaining licensed capacity at end of reporting year (m3) 683,092 Tonnes Table 3 General information-Landfill only Total disposal Lined disposal | | | JNLY | | | | | | | | | |
| Waste types permitted for disposal (tipa) and intake for disposal in reporting year (tipa) and reporting year (manual intake for disposal (tipa) and reporting year (manual intake for reporting year (manual intake for disposal (tipa) and reporting year (manual intake for reporting year (manual intake for reporting year (manual intake for disposal interesting year (manual intere | Table 2 Waste type | and tormage-iandim only | | | | 1 | | | | | | |
| Waste types permitted for disposal (tipa) and intake for disposal in reporting year (tipa) and reporting year (manual intake for disposal (tipa) and reporting year (manual intake for reporting year (manual intake for disposal (tipa) and reporting year (manual intake for reporting year (manual intake for reporting year (manual intake for disposal interesting year (manual intere | | | | | | | | | | | | |
| for disposal disposal (tpa) reporting year (tpa) reporting year (m3) Comments Fly & Bottom Ash 70,000 26,084 683,092 Formes Table 3 General information-Landfill only Total disposal Lined disposal | Wests types normitted | Authorized/licensed ennual intellector | A stual intaks for disposal in | | | | | | | | | |
| Total disposal Lined disposal | | | | | Comments | | | | | | | |
| Total disposal Lined disposal | | | | | Tonnes | | | | | | | |
| Total disposal Lined disposal | | | | | | - | | | | | | |
| Total disposal Lined disposal | | | | | | j | | | | | | |
| Total disposal Lined disposal | Table 3 General info | ormation-I andfill only | | | <u> </u> | | | | | | | |
| | Tubic 5 Octicial IIII | ormanon-cananii oniy | | | | | | | | | | |
| | | | | | | | | | | | | |
| Area ID Date landfilling commenced Date landfill | Area ID | Date landfilling commenced | Date landfilling ceased | Currently landfilling | | Inert or non-hazardous | | | | | area occupied by waste | |
| Area D Date miniming commenced Date miniming consecution of the control of the co | .i.cu ib | Date miniming commenced | Date minuting ceased | Jurency landining | Operated | ances of non-nazaruous | cease landfilling | asbestos | for asbestos? | year | | |

| WASTE SUMMARY | | | | | Lic No: | #REF! | | Year | #REF! | | | |
|-------------------------|--------|---------|-----|---------|---------|-------|----|------|-------|------|------|-------------|
| | | | | | | | | | | ha | ha | SELECT UNIT |
| Clonbullogue Ash Reposi | Nov-00 | Ongoing | Yes | Private | Inert | | No | No | No | 8.01 | 8.01 | |

| WASTE SUMMARY | | | | | Lic No: | #REF! | | Year | #REF! | |
|---|--|---|---|--|---|--|---|---|-------|--|
| Table 4 Environmer | ntal monitoring-landfill only | Landfill Manual-Monitoring Star | <u>idards</u> | | | | | | | |
| | 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 | | Were emission limit values agreed with the Agency (ELVs) | Was topography of the site surveyed in reporting year | Has the statement under S53(A)(5) of WMA been submitted in reporting year | Comments | | |
| Yes | Yes | NA | Yes | Yes | Yes | Yes | No | The waste is not subject to a landfill levy | | |
| .+ please refer to Landfill Table 5 Capping-Lar | Manual linked above for relevant Landfil | I Directive monitoring standards | | | | | | | | |
| Area uncapped* | Area with temporary cap SELECT UNIT | 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 | | | | |
| 0.56 | | D NA | 5.1 | 1.13 | Capped as per licence condition 10.3. 80/20 Peat/Subsoil | Agreed lining system on cells 1 and 3b. | | | | |
| | | | ı | | | No Yes | 3 | | | |
| 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 | | | |
| | ı | I . | I . | 1 | 1 | 1 | L | _ | | |
| Table 7 Landfill Gas | Please ensure that all information repos- s-Landfill only | orted in the landfill gas section is | consistent with the Landfil | I Gas Survey submitted in | n conjunction with PRTR returns | | | | | |
| Table 7 Landfill Gas Gas Captured&Treated by LFG System m3 | | orted in the landfill gas section is | Was surface emissions monitoring performed during the reporting year? | | conjunction with PRTR returns | | | | | |

HDPE & GCL

| Monitoring Location: SW4 | | | | | |
|-------------------------------|-----------|------------|------------|------------|------------|
| Parameter | Date | 20/03/2014 | 28/05/2014 | 18/09/2014 | 28/11/2014 |
| Ammonia mg/l | Quarterly | 0.24 | 0.73 | 0.37 | 0.44 |
| COD (mg/l) | Quarterly | 62 | 41 | 20 | 48 |
| pH (pH units) | Quarterly | 9.6 | 9.1 | 9.5 | 8.4 |
| Total Suspended Solids (mg/l) | Quarterly | 49 | 44 | 27 | 15 |

| Monitoring Location: SW5 | | | | | |
|---------------------------------|-----------|------------|------------|------------|------------|
| Parameter | Date | 20/03/2014 | 28/05/2014 | 18/09/2014 | 04/12/2014 |
| Ammonia mg/l | Quarterly | 0.25 | 0.19 | 0.03 | 0.39 |
| COD (mg/l) | Quarterly | 60 | 73 | 31 | 59 |
| pH (pH units) | Quarterly | 8 | 7.8 | 8.1 | 7.7 |
| Total Suspended Solids (mg/l) | Quarterly | 14 | 14 | 5 | 5 |

| Monitoring Location: SW6 | | | | | |
|---------------------------------|-----------|------------|------------|------------|------------|
| Parameter | Date | 20/03/2014 | 28/05/2014 | 18/09/2014 | 04/12/2014 |
| Ammonia mg/l | Quarterly | 0.25 | 0.22 | 0.02 | 0.38 |
| COD (mg/l) | Quarterly | 57 | 74 | 21 | 64 |
| pH (pH units) | Quarterly | 7.9 | 7.6 | 7.8 | 7.7 |
| Total Suspended Solids (mg/l) | Quarterly | 14 | 12 | 5 | 5 |

| Monitoring Location: SW7 | | | | | |
|---------------------------|-----------|------------|------------|------------|------------|
| Parameter | Date | 20/03/2014 | 28/05/2014 | 18/09/2014 | 04/12/2014 |
| Ammonia mg/l | Quarterly | 0.03 | 0.4 | 0.02 | 0.54 |
| COD (mg/l) | Quarterly | 75 | 52 | 30 | 58 |
| pH (pH units) | Quarterly | 7.7 | 8 | 8 | 7.7 |
| Suspended Solids (mg/l) | Quarterly | 5 | 14 | 5 | 5 |

| Monitoring Location: SW8 | | | | | |
|---------------------------|-----------|------------|------------|------------|------------|
| Parameter | Date | 20/03/2014 | 28/05/2014 | 18/09/2014 | 28/11/2014 |
| Ammonia mg/l | Quarterly | 0.03 | 0.72 | 0.18 | 0.38 |
| COD (mg/l) | Quarterly | 61 | 35 | 20 | 51 |
| pH (pH units) | Quarterly | 8.6 | 8.7 | 8.2 | 7.8 |
| Suspended Solids (mg/l) | Quarterly | 5 | 43 | 38 | 11 |

| Monitoring Location: SWR1 | | | | | |
|---------------------------|-----------|------------|------------|------------|------------|
| Parameter | Date | 20/03/2014 | 28/05/2014 | 18/09/2014 | 28/11/2014 |
| Ammonia mg/l | Quarterly | 0.1 | 0.61 | 0.03 | 0.16 |
| COD (mg/l) | Quarterly | 53 | 33 | 34 | 56 |
| pH (pH units) | Quarterly | 7.8 | 7.5 | 7.9 | 7.3 |
| Suspended Solids (mg/l) | Quarterly | 5 | 8 | 5 | 5 |

CLONCREEN ASH REPOSITORY MONITORING RESULTS

Monitoring Location: LC1A

| Parameter | Date | 14/03/2014 | 17/07/2014 | 24/09/2014 |
|----------------------------------|-------------|------------|-------------|------------|
| COD (mg/l) | Bi-Annually | 160 | | 274 |
| Amonical nitrogen (mg/l NH4-N) | Bi-Annually | 5 | | 4.6 |
| Temperature (0C) | Bi-Annually | 9.5 | | 11.4 |
| Electrical Conductivity (µS/cm) | Bi-Annually | 9130 | | 19080 |
| pH (pH units) | Bi-Annually | 12.68 | | 12.89 |
| Total oxidised nitrogen (mg/l) | Annually | | 0.2 | |
| Boron | Annually | | 2 | |
| Arsenic (µg/I) | Annually | | 6 | |
| Silver (µg/l) | Annually | | 2 | |
| Aluminium (μg/l) | Annually | | 177 | |
| Berylium (µg/l) | Annually | | 2 | |
| Barium (µg/l) | Annually | | 1388 | |
| calcium (mg/l) | Annually | | 691 | |
| chromium (µg/l) | Annually | | 2 | |
| Cadmium (µg/I) | Annually | | 2 | |
| Cobalt (µg/l) | Annually | | 4 | |
| Copper (µg/I) | Annually | | 14 | |
| Iron (mg/l) | Annually | | 0.1 | |
| Potassium (mg/l) | Annually | | 893 | |
| Magnesium (mg/l) | Annually | | 0.12 | |
| Manganese (µg/l) | Annually | | 2 | |
| Sodium (mg/l) | Annually | | 821 | |
| Nickel (µg/l) | Annually | | 104 | |
| Lead (µg/l) | Annually | | 2 | |
| Antimony (µg/l) | Annually | | 2 | |
| Selenium (µg/l) | Annually | | 6 | |
| Tin (µg/l) | Annually | | 2 | |
| Zinc (µg/I) | Annually | | 56 | |
| Mercury (µg/l) | Annually | | 1 | |
| Phosphorus (mg/l) | Annually | | 0.05 | |
| Flouride (mg/l) | Annually | | 0.1 | |
| PO4-P (mg/l) | Annually | | 0.01 | |
| VOC's USEPA 524.2 (µg/l) | Annually | | All <1* | |
| SVOC'S (µg/l) | Annually | | All<1** | |
| Comb Pesticide suite (µg/l) | Annually | | All<0.01*** | |
| VOC's by GC-FID | Annually | | All<0.5**** | |
| | | | | |
| | | | | |
| | | | | |
| | | | 1 | 1 |

^{*}Dichloromethane = <3
**4-Methylphenol = 1.79
**Bis(2-ethylhexyl)phthalate = <2
**Phenol = 24
***Heptachlor = 0.04
***Methyl Parathion = 0.02
***Malathion = 0.03
***Zinphos Methyl = 0.02
****Methanol = 3
****Ethanol = 1.2

Cloncreen Ash Repository Monitoring Results Monitoring Location: LC2A

| Parameter | Date | 14/03/2014 | 17/07/2014 | 24/09/2014 |
|----------------------------------|-------------|------------|-------------|------------|
| COD (mg/l) | Bi-Annually | 21 | 1170172011 | 307 |
| Amonical nitrogen (mg/l NH4) | Bi-Annually | 0.36 | | 4.1 |
| Temperature (OC) | Bi-Annually | 9 | | 11.6 |
| Electrical Conductivity (µS/cm) | Bi-Annually | 4710 | | 19630 |
| pH (pH units) | Bi-Annually | 12.42 | | 12.93 |
| Total oxidised nitrogen (mg/l) | Annually | | 0.2 | |
| Boron | Annually | | 2 | |
| Arsenic (µg/I) | Annually | | 2 | |
| Silver (µg/l) | Annually | | 2 | |
| Aluminium (µg/l) | Annually | | 113 | |
| Berylium (µg/l) | Annually | | 2 | |
| Barium (µg/l) | Annually | | 70 | |
| calcium (mg/l) | Annually | | 60 | |
| chromium (µg/I) | Annually | | 3 | |
| Cadmium (µg/l) | Annually | | 2 | |
| Cobalt (µg/l) | Annually | | 2 | |
| Copper (µg/I) | Annually | | 18 | |
| Iron (mg/l) | Annually | | 0.1 | |
| Potassium (mg/l) | Annually | | 1389 | |
| Magnesium (mg/l) | Annually | | 0.16 | |
| Manganese (μg/l) | Annually | | 2 | |
| Sodium (mg/l) | Annually | | 1386 | |
| Nickel (µg/l) | Annually | | 21 | |
| Lead (μg/l) | Annually | | 4 | |
| Antimony (µg/l) | Annually | | 2 | |
| Selenium (µg/l) | Annually | | 14 | |
| Tin (µg/l) | Annually | | 2 | |
| Zinc (µg/I) | Annually | | 75 | |
| Mercury (µg/l) | Annually | | 1 | |
| Phosphorus (mg/l) | Annually | | 0.05 | |
| Flouride (mg/l) | Annually | | 0.1 | |
| PO4-P (mg/l) | Annually | | 0.01 | |
| VOC's USEPA 524.2 (µg/l) | Annually | | All <1* | |
| SVOC'S (µg/l) | Annually | | All<1** | |
| Comb Pesticide suite (µg/l) | Annually | | All<0.01*** | |
| VOC's by GC-FID | Annually | | All<0.5**** | |
| | | | | |
| | | | | |
| | | | | |

^{*}Dichloromethane = <3
**Bis(2-ethylhexyl)phthalate = <2
***Methyl Parathion = 0.9
***Malathion = 0.02
***Heptachlor Epoxide = 0.06
***Azinphos Methyl = 0.02
****Methanol = 0.65

Monitoring Location: LC3A

| Parameter | Date | 14/03/2014 | 17/07/2014 | 24/09/2014 |
|---------------------------------|-------------|------------|-------------|------------|
| COD (mg/l) | Bi-Annually | 54 | | 24 |
| Amonical nitrogen (mg/l NH4) | Bi-Annually | 2 | | 0.42 |
| Temperature (0C) | Bi-Annually | 9.3 | | 11.3 |
| Electrical Conductivity (µS/cm) | Bi-Annually | 11920 | | 8770 |
| pH (pH units) | Bi-Annually | 12.69 | | 12.42 |
| Total oxidised nitrogen (mg/l) | Annually | | 0.85 | |
| Boron | Annually | | 8 | |
| Arsenic (μg/l) | Annually | | 8 | |
| Silver (µg/l) | Annually | | 2 | |
| Aluminium (μg/l) | Annually | | 372 | |
| Berylium (µg/l) | Annually | | 2 | |
| Barium (µg/l) | Annually | | 73 | |
| calcium (mg/l) | Annually | | 370 | |
| chromium (μg/l) | Annually | | 23 | |
| Cadmium (µg/l) | Annually | | 2 | |
| Cobalt (µg/l) | Annually | | 2 | |
| Copper (µg/I) | Annually | | 9 | |
| Iron (mg/l) | Annually | | 0.4 | |
| Potassium (mg/l) | Annually | | 1393 | |
| Magnesium (mg/l) | Annually | | 0.12 | |
| Manganese (μg/l) | Annually | | 15 | |
| Sodium (mg/l) | Annually | | 1088 | |
| Nickel (µg/l) | Annually | | 6 | |
| Lead (µg/l) | Annually | | 5 | |
| Antimony (µg/I) | Annually | | 2 | |
| Selenium (µg/I) | Annually | | 42 | |
| Tin (μg/l) | Annually | | 2 | |
| Zinc (µg/I) | Annually | | 156 | |
| Mercury (µg/l) | Annually | | 1 | |
| Phosphorus (mg/l) | Annually | | 0.06 | |
| Flouride (mg/l) | Annually | | 0.1 | |
| PO4-P (mg/l) | Annually | | 0.01 | |
| VOC's USEPA 524.2 (μg/l) | Annually | | All <1* | |
| SVOC'S (µg/l) | Annually | | All<1** | |
| Comb Pesticide suite (µg/l) | Annually | | All<0.01*** | |
| VOC's by GC-FID | Annually | | All<0.5**** | |

^{*}Dichloromethane = <3

^{**}Bis(2-ethylhexyl)phthalate = <2

^{***}Methyl Parathion = 0.7

^{***}Malathion = 0.02

^{***}Heptachlor Epoxide = 0.09

^{***}Azinphos Methyl = 0.02

^{****}Methanol = 0.64

Monitoring Location: LC3B

| Parameter | Date | 14/03/2014 | 17/07/2014 | 24/09/2014 |
|----------------------------------|-------------|------------|-------------|------------|
| COD (mg/l) | Bi-Annually | 23 | | 440 |
| Amonical nitrogen (mg/l NH4) | Bi-Annually | 0.53 | | 4.4 |
| Temperature (0C) | Bi-Annually | 9.5 | | 11 |
| Electrical Conductivity (µS/cm) | Bi-Annually | 6480 | | 42800 |
| pH (pH units) | Bi-Annually | 12.49 | | 13.13 |
| Total oxidised nitrogen (mg/l) | Annually | | 0.2 | |
| Boron | Annually | | 7 | |
| Arsenic (μg/I) | Annually | | 10 | |
| Silver (µg/I) | Annually | | 2 | |
| Aluminium (µg/l) | Annually | | 356 | |
| Berylium (µg/l) | Annually | | 2 | |
| Barium (µg/l) | Annually | | 98 | |
| calcium (mg/l) | Annually | | 340 | |
| chromium (µg/l) | Annually | | 2 | |
| Cadmium (µg/l) | Annually | | 2 | |
| Cobalt (µg/l) | Annually | | 2 | |
| Copper (µg/I) | Annually | | 5 | |
| Iron (mg/l) | Annually | | 0.1 | |
| Potassium (mg/l) | Annually | | 4109 | |
| Magnesium (mg/l) | Annually | | 0.1 | |
| Manganese (µg/l) | Annually | | 2 | |
| Sodium (mg/l) | Annually | | 2546 | |
| Nickel (µg/l) | Annually | | 13 | |
| Lead (µg/l) | Annually | | 7 | |
| Antimony (µg/I) | Annually | | 2 | |
| Selenium (µg/I) | Annually | | 174 | |
| Tin (µg/l) | Annually | | 2 | |
| Zinc (µg/l) | Annually | | 90 | |
| Mercury (µg/l) | Annually | | 4 | |
| Phosphorus (mg/l) | Annually | | 0.05 | |
| Flouride (mg/l) | Annually | | 0.1 | |
| PO4-P (mg/l) | Annually | | 0.01 | |
| VOC's USEPA 524.2 (µg/l) | Annually | | All <1* | |
| SVOC'S (µg/l) | Annually | | All<1** | |
| Comb Pesticide suite (µg/l) | Annually | | All<0.01*** | |
| VOC's by GC-FID | Annually | | All<0.5**** | |
| | | | | |
| | | | | |
| | | | | |

^{*}Dichloromethane = <3

^{**}Bis(2-ethylhexyl)phthalate = <2

^{**}Phenol = 15.9

^{***}Methyl Parathion = 0.06

^{***}Malathion = 0.02

^{***}Heptachlor Epoxide = 0.04

^{***}Azinphos Methyl = 0.02

^{****}Methanol = 1.3

Monitoring Location: LC4A

| Parameter | Date | 14/03/2014 | 17/07/2014 | 24/09/2014 |
|----------------------------------|-------------|------------|-------------|------------|
| COD (mg/l) | Bi-Annually | 20 | | 16 |
| Amonical nitrogen (mg/l NH4) | Bi-Annually | 0.49 | | 0.02 |
| Temperature (0C) | Bi-Annually | 9.4 | | 11.5 |
| Electrical Conductivity (µS/cm) | Bi-Annually | 5970 | | 3430 |
| pH (pH units) | Bi-Annually | 12.3 | | 10.11 |
| Total oxidised nitrogen (mg/l) | Annually | | 0.2 | |
| Arsenic (μg/l) | Annually | | 2 | |
| Silver (µg/l) | Annually | | 2 | |
| Aluminium (µg/l) | Annually | | 1011 | |
| Berylium (µg/l) | Annually | | 2 | |
| Barium (µg/l) | Annually | | 11 | |
| calcium (mg/l) | Annually | | 7.2 | |
| chromium (µg/l) | Annually | | 13 | |
| Cadmium (µg/l) | Annually | | 2 | |
| Cobalt (µg/l) | Annually | | 2 | |
| Copper (µg/l) | Annually | | 7 | |
| Iron (mg/l) | Annually | | 0.1 | |
| Potassium (mg/l) | Annually | | 938 | |
| Magnesium (mg/l) | Annually | | 0.22 | |
| Manganese (µg/l) | Annually | | 3 | |
| Sodium (mg/l) | Annually | | 256 | |
| Nickel (µg/l) | Annually | | 3 | |
| Lead (µg/l) | Annually | | 2 | |
| Antimony (µg/I) | Annually | | 2 | |
| Selenium (µg/l) | Annually | | 19 | |
| Tin (µg/l) | Annually | | 2 | |
| Zinc (µg/I) | Annually | | 40 | |
| Mercury (µg/l) | Annually | | 1 | |
| Phosphorus (mg/l) | Annually | | 0.58 | |
| Flouride (mg/l) | Annually | | 0.1 | |
| PO4-P (mg/l) | Annually | | 0.58 | |
| VOC's USEPA 524.2 (µg/l) | Annually | | All <1* | |
| SVOC'S (µg/l) | Annually | | All<1** | |
| Comb Pesticide suite (µg/l) | Annually | | All<0.01*** | |
| VOC's by GC-FID | Annually | | All<0.5 | |

^{*}Dichloromethane = <3

^{**}Bis(2-ethylhexyl)phthalate = <2

^{***}Methyl Parathion = 0.06

^{***}Malathion = 0.02

^{***}Heptachlor Epoxide = 0.05

^{***}Azinphos Methyl = 0.02

Monitoring Results

Monitoring Location: L1

| Parameter | Date | 14/03/2014 | 17/07/2014 | 24/09/2014 |
|----------------------------------|-------------|------------|-------------|------------|
| COD (mg/l) | Bi-Annually | 46 | | 64 |
| Amonical nitrogen (mg/l NH4) | Bi-Annually | 0.58 | | 0.25 |
| Temperature (0C) | Bi-Annually | 9.2 | | 11 |
| Electrical Conductivity (µS/cm) | Bi-Annually | 771 | | 2053 |
| pH (pH units) | Bi-Annually | 9.4 | | 10.96 |
| Total oxidised nitrogen (mg/l) | Annually | | 0.2 | |
| Arsenic (µg/l) | Annually | | 3 | |
| Silver (µg/l) | Annually | | 2 | |
| Aluminium (µg/I) | Annually | | 22 | |
| Berylium (µg/I) | Annually | | 2 | |
| Barium (µg/I) | Annually | | 31 | |
| calcium (mg/l) | Annually | | 14 | |
| chromium (µg/l) | Annually | | 2 | |
| Cadmium (µg/l) | Annually | | 2 | |
| Cobalt (µg/I) | Annually | | 2 | |
| Copper (µg/l) | Annually | | 5 | |
| Iron (mg/l) | Annually | | 0.3 | |
| Potassium (mg/l) | Annually | | 102 | |
| Magnesium (mg/l) | Annually | | 5.4 | |
| Manganese (µg/l) | Annually | | 100 | |
| Sodium (mg/l) | Annually | | 97 | |
| Nickel (µg/l) | Annually | | 16 | |
| Lead (μg/l) | Annually | | 2 | |
| Antimony (µg/l) | Annually | | 2 | |
| Selenium (µg/l) | Annually | | 2 | |
| Tin (µg/l) | Annually | | 2 | |
| Zinc (µg/l) | Annually | | 47 | |
| Mercury (µg/I) | Annually | | 1 | |
| Phosphorus (mg/l) | Annually | | 0.01 | |
| Flouride (mg/l) | Annually | | 0.1 | |
| PO4-P (mg/l) | Annually | | 0.01 | |
| VOC's USEPA 524.2 (µg/l) | Annually | | All<1* | |
| SVOC'S (µg/l) | Annually | | All<1** | |
| Comb Pesticide suite (µg/l) | Annually | · | All<0.01*** | |
| VOC's by GC-FID | Annually | | A11<0.50 | |
| | | | | |
| | | · | | |
| | | | | |

^{*}Dichloromethane **Bis(2-ethylhexyl)phthalate ***Azinphos Methyl

Monitoring Location: L2

| Parameter | Date | 20/03/2014 | 28/05/2014 | 17/07/2014 | 18/09/2014 | 28/11/2014 |
|----------------------------------|-----------|------------|------------|------------|------------|------------|
| COD (mg/l) | Quarterly | 60 | 36 | | 26 | 45 |
| Dissolved oxygen (%) | Quarterly | 23.7 | 25.1 | | 26.4 | 28.4 |
| Dissolved oxygen (mg/l) | Quarterly | 2.89 | 3.01 | | 3.89 | 3.71 |
| Electrical Conductivity (µS/cm) | Quarterly | 947 | 771 | | 1201 | 889 |
| Ammoniacal Nitrogen (mg/l NH4) | Quarterly | 0.25 | 0.72 | | 0.42 | 0.55 |
| pH (pH units) | Quarterly | 9.9 | 9.3 | | 9.5 | 9 |
| Total Suspended Solids (mg/l) | Quarterly | 11 | 32 | | 33 | 13 |
| Boron | Annually | | | 7 | | |
| Arsenic (μg/l) | Annually | | | 3 | | |
| Silver (µg/l) | Annually | | | 2 | | |
| Aluminium (µg/I) | Annually | | | 14 | | |
| Berylium (μg/l) | Annually | | | 2 | | |
| Barium (µg/I) | Annually | | | 282 | | |
| calcium (mg/l) | Annually | | | 11 | | |
| chromium (µg/l) | Annually | | | 2 | | |
| Cadmium (µg/I) | Annually | | | 2 | | |
| Cobalt (µg/l) | Annually | | | 2 | | |
| Copper (µg/l) | Annually | | | 3 | | |
| Iron (mg/l) | Annually | | | 0.35 | | |
| Potassium (mg/l) | Annually | | | 75 | | |
| Magnesium (mg/l) | Annually | | | 4.6 | | |
| Manganese (µg/l) | Annually | | | 85 | | |
| Sodium (mg/l) | Annually | | | 82 | | |
| Nickel (µg/l) | Annually | | | 14 | | |
| Lead (µg/l) | Annually | | | 82 | | |
| Antimony (µg/l) | Annually | | | 2 | | |
| Selenium (µg/l) | Annually | | | 2 | | |
| Tin (µg/l) | Annually | | | 2 | | |
| Zinc (µg/l) | Annually | | | 51 | | |
| Mercury (µg/l) | Annually | | | 1 | | |
| PO4-P (mg/l) | Annually | | | 0.05 | | |
| VOC's USEPA 524.2 (μg/l) | Annually | | | All<1 | | |
| SVOC'S (µg/l) | Annually | | | All<1* | | |
| Comb Pesticide suite (µg/l) | Annually | | | All<0.01** | | |
| | | | | | | |
| | | | | | | |

^{*}Bis(2-ethylhexyl)phthalate **Methyl Parathion **Malathion **Azinphos Methyl

Monitoring Location: MW02

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Slightly |
| | | odour | odour | odour | odour | odour | milky,no |
| Visual/Odour | Monthly | | | 5 2.5 2 | 5 2 2 2 | | | 0 200 201 | 0 3.0 3.1 | | | | odour |
| Groundwater level (m AOD) | Monthly | 68.552 | 68.552 | 68.502 | 68.502 | 68.452 | 68.452 | 67.602 | 68.202 | 67.652 | 67.802 | 68.402 | 68.452 |
| pH (pH units) | Monthly | 7.4 | 7.4 | 7.6 | 7.5 | 7.4 | 7.4 | 7.4 | 7.6 | 7.2 | 7.2 | 7.4 | 7.4 |
| Electrical Conductivity (µS/cm) | Monthly | 702 | 717 | 713 | 916 | 708 | 704 | 666 | 737 | 693 | 670 | 723 | 709 |
| Total Ammonia mg/l | Monthly | 5.9 | 5.7 | 5.7 | 5.6 | 5.7 | 5.8 | 5.8 | 6.1 | 6.3 | 5.7 | 6.2 | 6.1 |
| Sulphate(SO4) mg/l | Monthly | 10 | 13 | 11 | 10 | 8.9 | 7.5 | 2.9 | 4.9 | 2.2 | 1.5 | 5.2 | 7.7 |
| Arsenic (µg/I) | Annually | | | | | | | 44 | | | | | |
| Boron (µg/l) | Annually | | | | | | | 5 | | | | | |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 623 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/l) | Annually | | | | | | | 1510 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 124 | | | | | |
| chromium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cadmium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/I) | Annually | | | | | | | 4 | | | | | |
| Copper (µg/I) | Annually | | | | | | | 3 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 6.6 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 2.7 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 19 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 276 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 9.2 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 24 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 6 | | | | | |
| Antimony (µg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (µg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/I) | Annually | | | | | | | 268 | | | | | |
| Mercury (μg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.21 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (μg/l) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | 1 |

^{*}Except Dichloromethane <3

**Except Bis(2-ethylhexyl)phthalate <2

*** Except Malathion <0.03

*** Except Azinphos Methyl <0.02

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|-------------|------------|------------|------------|--------------|------------|------------|------------|------------|---------------|
| | | Slightly | Clear, no | Slightly | Slightly | Slightly | Clear, no | Slightly | Slightly | Slightly | Slightly | Milky | Milky |
| | | yellow,no | odour | yellow, | milky,no | milky,no | odour | milky,no | milky,no | milky,no | milky,no | yellow,no | yellow,slight |
| | | odour | | slight peat | odour | odour | | odour | odour | odour | odour | odour | gas odour |
| Visual/Odour | Monthly | | | odour | | | | | | | | | |
| Groundwater level (m AOD) | Monthly | 68.456 | 68.506 | 68.456 | 68.306 | 68.106 | 68.206 | 67.406 | 67.956 | 67.556 | 68.106 | 68.306 | 68.406 |
| pH (pH units) | Monthly | 7 | 7.5 | 7.8 | 7.4 | 7.3 | 7.3 | 7 | 7.5 | 6.9 | 7 | 7.5 | 7.5 |
| Electrical Conductivity (µS/cm) | Monthly | 943 | 385 | 378 | 418 | 479 | 629 | 803 | 596 | 774 | 770 | 396 | 419 |
| Total Ammonia mg/l | Monthly | 0.58 | 0.03 | 0.02 | 0.02 | 0.03 | 0.09 | 0.69 | 0.1 | 0.52 | 0.3 | 0.02 | 0.02 |
| Sulphate(SO4) mg/l | Monthly | 180 | 23 | 19 | 21 | 25 | 54 | 125 | 50 | 116 | 98 | 31 | 32 |
| Arsenic (µg/l) | Annually | | | | | | | 6 | | | | | |
| Boron (μg/l) | Annually | | | | | | | 18 | | | | | |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 3323 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/I) | Annually | | | | | | | 214 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 241 | | | | | |
| chromium (µg/l) | Annually | | | | | | | 12 | | | | | |
| Cadmium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/l) | Annually | | | | | | | 8 | | | | | |
| Copper (µg/l) | Annually | | | | | | | 18 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 8.5 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 1.4 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 9 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 1520 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 4.8 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 38 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 25 | | | | | |
| Antimony (μg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (μg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/l) | Annually | | | | | | | 161 | | | | | |
| Mercury (µg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (µg/l) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3

**Except Bis(2-ethylhexyl)phthalate <2

*** Except Malathion <0.02

*** Except Azinphos Methyl <0.02

*** Except Methyl Parathion <0.09

*** Except Heptachlor Epoxide <0.05

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/02/2014 | 10/04/2014 | 29/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 19/00/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|------------|---------------|------------|
| rarameter | Date | Bore well | Bore well | Bore well | Bore well | Bore well | Bore well | Bore well | Bore well |
| Visual/Odour | Monthly | Dry | Dry | Dry | Dry | Dry Dole Well | Dry | Dry | Dry | Dry | Dry | Dry Dole Well | Dry |
| Groundwater level (m AOD) | Monthly | Diy | Diy | ы | ыу | Diy | Diy | Diy | ыу | Diy | ыу | Diy | ыу |
| pH (pH units) | Monthly | | | | | | | | | | | | |
| Electrical Conductivity (µS/cm) | Monthly | | | | | | | | | | | | |
| Total Ammonia mg/l | Monthly | | | | | | | | | | | | |
| Sulphate(SO4) mg/l | Monthly | | | | | | | | | | | | |
| Boron (µg/l) | Annually | | | | | | | | | | | | |
| Arsenic (µg/l) | Annually | | | | | | | | | | | | |
| Silver (µg/l) | Annually | | | | | | | | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | | | | | | |
| Berylium (µg/l) | Annually | | | | | | | | | | | | |
| Barium (µg/l) | Annually | | | | | | | | | | | | |
| calcium (mg/l) | Annually | | | | | | | | | | | | |
| chromium (µg/l) | Annually | | | | | | | | | | | | |
| Cadmium (µg/l) | Annually | | | | | | | | | | | | |
| Cobalt (µg/l) | Annually | | | | | | | | | | | | |
| Copper (µg/I) | Annually | | | | | | | | | | | | |
| Iron (mg/l) | Annually | | | | | | | | | | | | |
| Potassium (mg/l) | Annually | | | | | | | | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | | | | | | |
| Manganese (µg/l) | Annually | | | | | | | | | | | | |
| Sodium (mg/l) | Annually | | | | | | | | | | | | |
| Nickel (µg/I) | Annually | | | | | | | | | | | | |
| Lead (µg/l) | Annually | | | | | | | | | | | | |
| Antimony (µg/I) | Annually | | | | | | | | | | | | |
| Selenium (µg/I) | Annually | | | | | | | | | | | | |
| Tin (µg/l) | Annually | | | | | | | | | | | | |
| Zinc (µg/l) | Annually | | | | | | | | | | | | |
| Mercury (µg/l) | Annually | | | | | | | | | | | | |
| Flouride (mg/l) | Annually | | | | | | | | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | | | | | | |
| VOC's USEPA 524.2 (μg/l) | Annually | | | | | | | | | | | | |
| SVOC'S (µg/l) | Annually | | | | | | | | | | | | |
| Comb Pesticide suite (µg/I) | Annually | | | | | | | | | | | | |
| | | | | | | | | | | | | | 1 |

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| T di dilictoi | Date | Milky with | Milky with | Milky with | Milky with | Milky with | Milky with |
| Visual/Odour | Monthly | peat odour | peat odour | peat odour | peat odour | peat odour | peat odour |
| Groundwater level (m AOD) | Monthly | 66.634 | 66.634 | 66.584 | 66.534 | 66.484 | 66.434 | 66.234 | 66.384 | 66.184 | 66.384 | 66.484 | 66.534 |
| pH (pH units) | Monthly | 7.1 | 7.1 | 7.4 | 7.1 | 7.1 | 7.1 | 7 | 7.5 | 7 | 7 | 7.1 | 7.1 |
| Electrical Conductivity (µS/cm) | Monthly | 611 | 614 | 609 | 619 | 615 | 632 | 622 | 617 | 617 | 602 | 618 | 603 |
| Total Ammonia mg/l | Monthly | 5.7 | 5.6 | 5.8 | 5.5 | 5.9 | 5.8 | 5.6 | 5.5 | 5.8 | 5.2 | 5.6 | 5.9 |
| Sulphate(SO4) mg/l | Monthly | 0.61 | 0.61 | 0.84 | 0.74 | 0.61 | 0.5 | 0.73 | 1.8 | 0.59 | 0.5 | 0.73 | 0.51 |
| Arsenic (µg/I) | Annually | | | | | | | 6 | | | | | |
| Boron (µg/l) | Annually | | | | | | | 2 | | | | | |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 17220 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/l) | Annually | | | | | | | 177 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 502 | | | | | |
| chromium (µg/l) | Annually | | | | | | | 28 | | | | | |
| Cadmium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/l) | Annually | | | | | | | 14 | | | | | |
| Copper (µg/l) | Annually | | | | | | | 27 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 28 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 2 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 23 | | | | | |
| Manganese (μg/l) | Annually | | | | | | | 2333 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 13 | | | | | ı |
| Nickel (μg/l) | Annually | | | | | | | 61 | | | | | |
| Lead (µg/I) | Annually | | | | | | | 97 | | | | | |
| Antimony (μg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Tin (µg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/I) | Annually | | | | | | | 345 | | | | | |
| Mercury (μg/l) | Annually | | | | | | | 2 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (μg/l) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | · | All <0.01*** | | | | | 1 |

^{*}Except Dichloromethane <3

**Except Bis(2-ethylhexyl)phthalate <2

*** Except Malathion <0.02

*** Except Azinphos Methyl <0.02

*** Except Methyl Parathion <0.02

*** Except Heptachlor <0.02

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Slightly | Slightly | Slightly | Slightly | Clear, no | Slightly | Slightly | Slightly | Clear, no | Clear, no | Almost | Slightly |
| | | yellow, | yellow,no | milky,no | yellow,no | odour | milky,no | milky,no | yellow,no | odour | odour | Clear, no | yellow,no |
| | | slight gas | odour | odour | odour | | odour | odour | odour | | | odour | odour |
| Visual/Odour | Monthly | odour | | | | | | | | | | | Ĭ |
| Groundwater level (m AOD) | Monthly | 68.413 | 68.463 | 68.363 | 68.313 | 68.263 | 68.163 | 67.913 | 68.113 | 67.913 | 67.963 | 68.113 | 68.213 |
| pH (pH units) | Monthly | 6.8 | 6.9 | 7.2 | 6.9 | 6.7 | 6.8 | 6.5 | 7.2 | 6.8 | 6.5 | 6.7 | 6.9 |
| Electrical Conductivity (µS/cm) | Monthly | 707.5 | 747 | 755 | 790 | 801 | 800 | 807 | 767 | 790 | 791 | 804 | 747 |
| Total Ammonia mg/l | Monthly | 5.4 | 5.7 | 6.1 | 6.3 | 7.3 | 7.5 | 6.8 | 7.7 | 8.4 | 2.1 | 7.6 | 6.1 |
| Sulphate(SO4) mg/l | Monthly | 9.4 | 5.9 | 4.3 | 3.3 | 27 | 1.2 | 0.57 | 8.8 | 0.65 | 0.5 | 17 | 11 |
| Arsenic (µg/I) | Annually | | | | | | | 17 | | | | | |
| Boron (µg/I) | Annually | | | | | | | 3 | | | | | |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 2776 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/l) | Annually | | | | | | | 251 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 152 | | | | | |
| chromium (µg/I) | Annually | | | | | | | 6 | | | | | |
| Cadmium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/I) | Annually | | | | | | | 8 | | | | | |
| Copper (µg/I) | Annually | | | | | | | 4 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 23 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 1.1 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 5.2 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 660 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 9.4 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 38 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 11 | | | | | |
| Antimony (µg/I) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (µg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/l) | Annually | | | | | | | 99 | | | | | |
| Mercury (μg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (µg/l) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3
**Except Bis(2-ethylhexyl)phthalate <2
*** Except Malathion <0.02
*** Except Azinphos Methyl <0.02

| Monitoring Location: MW07 | 7 | | | | | | | | | | | | |
|---------------------------------|----------|------------|------------|------------|------------|---------------|---------------|---------------|---------------|------------|------------|------------|------------|
| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
| | | Clear, no | Slightly | Slightly | Clear, no | Slightly | Slightly | Slightly | Slightly | Slightly | Slightly | Slightly | Clear, no |
| | | odour | milky,no | milky,no | odour | yellow,slight | yellow,slight | yellow,slight | yellow,slight | yellow, no | yellow, no | yellow, no | odour |
| | | | odour | odour | | gas odour | gas odour | gas odour | gas odour | odour | odour | odour | |
| Visual/Odour | Monthly | | | | | | | | | | | | |
| Groundwater level (m AOD) | Monthly | 67.516 | 67.716 | 67.716 | 67.216 | 67.216 | 66.966 | 66.716 | 66.766 | 66.566 | 66.616 | 66.866 | 67.666 |
| pH (pH units) | Monthly | 6.9 | 7 | 7.2 | 7 | 6.9 | 7.1 | 6.6 | 7.3 | 6.9 | 6.8 | 7 | 6.9 |
| Electrical Conductivity (µS/cm) | Monthly | 925 | 991 | 1111 | 1075 | 1001 | 963.5 | 1052 | 1098 | 1136 | 1130 | 1166 | 994 |
| Total Ammonia mg/l | Monthly | 1.3 | 1.8 | 3.1 | 2.9 | 2.2 | 2.2 | 2.9 | 3.1 | 3.6 | 3.3 | 4.4 | 2.2 |
| Sulphate(SO4) mg/l | Monthly | 22 | 9.4 | 5.1 | 5.7 | 8.6 | 9.1 | 4.2 | 3.9 | 1.7 | 1.6 | 2 | 9.9 |
| Arsenic (µg/I) | Annually | | | | | | | 6 | | | | | |
| Boron (µg/l) | Annually | | | | | | | 7 | | | | | |
| Silver (µg/I) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/I) | Annually | | | | | | | 205 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/I) | Annually | | | | | | | 267 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 137 | | | | | |
| chromium (µg/l) | Annually | | | | | | | 4 | | | | | |
| Cadmium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/I) | Annually | | | | | | | 2 | | | | | |
| Copper (µg/l) | Annually | | | | | | | 2 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 13 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 34 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 8.4 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 388 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 59 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 2 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 4 | | | | | |
| Antimony (µg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (μg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/I) | Annually | | | | | | | 125 | | | | | |
| Mercury (μg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (µg/l) | Annually | | | | | | | All<1** | | | - | | |
| Comb Pesticide suite (µg/I) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3

**Except Bis(2-ethylhexyl)phthalate <2

*** Except Malathion <0.03

*** Except Azinphos Methyl <0.02

*** Except Methyl Parathion <0.02

*** Except Heptachlor <0.02

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no |
| Visual/Odour | Monthly | odour | odour | odour | odour | odour | odour |
| Groundwater level (m AOD) | Monthly | 69.012 | 69.012 | 68.862 | 68.712 | 68.312 | 68.062 | 67.412 | 67.762 | 67.312 | 67.262 | 67.912 | 68.562 |
| pH (pH units) | Monthly | 6.8 | 6.9 | 7.2 | 6.8 | 6.9 | 7 | 6.6 | 7.2 | 6.8 | 6.8 | 7 | 6.9 |
| Electrical Conductivity (µS/cm) | Monthly | 905 | 851 | 816 | 810 | 862 | 883 | 794 | 871 | 873 | 840 | 888 | 861 |
| Total Ammonia mg/l | Monthly | 1 | 0.58 | 0.67 | 1.2 | 2.6 | 2.6 | 2.7 | 3 | 3.1 | 3.8 | 3.8 | 2.2 |
| Sulphate(SO4) mg/l | Monthly | 86 | 90 | 86 | 68 | 59 | 57 | 61 | 52 | 52 | 49 | 43 | 54 |
| Arsenic (µg/I) | Annually | | | | | | | 42 | | | | | |
| Boron (µg/l) | Annually | | | | | | | 10 | | | | | |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 127 | | | | | ĺ |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/l) | Annually | | | | | | | 516 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 152 | | | | | |
| chromium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cadmium (µg/l) | Annually | | | | | | | 2 | | | | | ĺ |
| Cobalt (µg/I) | Annually | | | | | | | 8 | | | | | |
| Copper (µg/l) | Annually | | | | | | | 2 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 18 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 0.63 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 5.3 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 625 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 5.5 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 46 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 2 | | | | | |
| Antimony (µg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (μg/l) | Annually | | | | | | | 2 | | | | | İ |
| Zinc (µg/l) | Annually | | | | | | | 86 | | | | | |
| Mercury (μg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | <u> </u> | <u> </u> | | | 0.1 | | | | <u> </u> | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (μg/l) | Annually | - | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3
**Except Bis(2-ethylhexyl)phthalate <2
*** Except Malathion <0.02
*** Except Azinphos Methyl <0.02
*** Except Methyl Parathion <0.02
*** Except Heptachlor <0.02

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/02/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| raiailletei | Date | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no |
| Visual/Odour | Monthly | odour | odour | odour | odour | odour | odour |
| Groundwater level (m AOD) | Monthly | 67.718 | 67.768 | 67.568 | 67.468 | 67.418 | 67.168 | 66.368 | 66.868 | 66.268 | 66.368 | 67.218 | 67.568 |
| , | Monthly | 6.9 | 7 | 7.3 | 6.9 | 6.9 | 6.9 | 6.6 | 7.2 | 6.9 | 6.7 | 6.9 | 6.9 |
| pH (pH units) | Monthly | 767 | 750 | 7.3 751 | 781 | 834 | 839 | 879 | 839 | 800 | 824 | 852 | 797 |
| Electrical Conductivity (μS/cm) | | 2.5 | 2.5 | 2.5 | 2.5 | 2.4 | 2.3 | 2.9 | 2.4 | 2.6 | 3 | 2.2 | 2.5 |
| Total Ammonia mg/l | Monthly | 2.5 6 | | | 6 | 9.7 | | | 13 | | | 12 | |
| Sulphate(SO4) mg/l | Monthly | ь | 4.3 | 76 | ь | 9.7 | 10 | 5.8 | 13 | 6.7 | 8.1 | 12 | 6.9 |
| Arsenic (µg/I) | Annually | | | | | | | 62 4 | | | | | - |
| Boron (µg/l) | Annually | | | | | | | | | | | | 1 |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | 1 |
| Aluminium (μg/l) | Annually | | | | | | | 8 | | | | | ļ |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | 1 |
| Barium (µg/l) | Annually | | | | | | | 529 | | | | | 1 |
| calcium (mg/l) | Annually | | | | | | | 126 | | | | | ļ |
| chromium (µg/l) | Annually | | | | | | | 2 | | | | | ļ |
| Cadmium (µg/l) | Annually | | | | | | | 2 | | | | | ļ |
| Cobalt (µg/l) | Annually | | | | | | | 6 | | | | | |
| Copper (µg/I) | Annually | | | | | | | 2 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 13 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 0.66 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 7.1 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 238 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 6 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 46 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 2 | | | | | |
| Antimony (µg/I) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (µg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/l) | Annually | | | | | | | 102 | | | | | |
| Mercury (μg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (μg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (µg/l) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3

**Except Bis(2-ethylhexyl)phthalate <2

*** Except Malathion <0.02

*** Except Azinphos Methyl <0.02

*** Except Methyl Parathion <0.04

*** Except Heptachlor Epoxide <0.02

| - | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | |
|---------------------------------|----------|------------|------------|-----------|------------|------------|------------|--------------|------------|------------|------------|-----------|------------|
| Parameter | Date | 16/01/2014 | 26/02/2014 | | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | | 03/12/2014 |
| | | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no |
| Visual/Odour | Monthly | odour | odour | odour | odour | odour | odour | odour | odour | odour | odour | odour | odour |
| Groundwater level (m AOD) | Monthly | 68.29 | 68.34 | 68.29 | 68.19 | 68.14 | 68.09 | 67.89 | 68.04 | 67.89 | 67.79 | 68.084 | 68.19 |
| pH (pH units) | Monthly | 7 | 7.1 | 7.1 | 7 | 6.9 | 7 | 6.6 | 7.2 | 6.9 | 6.7 | 7 | 7 |
| Electrical Conductivity (µS/cm) | Monthly | 712 | 712 | 686 | 715 | 737 | 737 | 742 | 730 | 746 | 768 | 787 | 734 |
| Total Ammonia mg/l | Monthly | 2.9 | 2.8 | 2.8 | 2.9 | 3.2 | 3 | 3.2 | 3.3 | 3.5 | 4.1 | 4.6 | 3.1 |
| Sulphate(SO4) mg/l | Monthly | 0.5 | 0.5 | 0.84 | 0.5 | 0.5 | 0.5 | 0.5 | 0.98 | 0.5 | 0.5 | 0.5 | 0.5 |
| Arsenic (µg/I) | Annually | | | | | | | 33 | | | | | |
| Boron (µg/l) | Annually | | | | | | | 6 | | | | | |
| Silver (µg/I) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 8 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/l) | Annually | | | | | | | 396 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 113 | | | | | |
| chromium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cadmium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/I) | Annually | | | | | | | 7 | | | | | |
| Copper (µg/I) | Annually | | | | | | | 2 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 18 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 0.54 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 4 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 313 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 8.6 | | | | | |
| Nickel (μg/l) | Annually | | | | | | | 39 | | | | | |
| Lead (µg/I) | Annually | | | | | | | 2 | | | | | |
| Antimony (µg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (µg/I) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/I) | Annually | | | | | | | 2 | | | | | |
| Mercury (µg/I) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (µg/l) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3

**Except Bis(2-ethylhexyl)phthalate <2

*** Except Malathion <0.02

*** Except Azinphos Methyl <0.02

*** Except Methyl Parathion <0.03

*** Except Heptachlor <0.02

| Parameter | Date | 16/01/2014 | 26/02/2014 | 11/03/2014 | 10/04/2014 | 28/05/2014 | 11/06/2014 | 17/07/2014 | 20/08/2014 | 18/09/2014 | 08/10/2014 | 05/11/2014 | 03/12/2014 |
|---------------------------------|----------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no | Clear, no |
| | | odour | odour | odour | odour | odour | odour |
| Visual/Odour | Monthly | | | | | | | | | | | | |
| Groundwater level (m AOD) | Monthly | 67.069 | 67.369 | 67.269 | 66.619 | 66.619 | 66.269 | 66.119 | 66.219 | 65.969 | 65.969 | 66.569 | 67.019 |
| pH (pH units) | Monthly | 7.2 | 7.2 | 7.4 | 7.1 | 7 | 7.1 | 6.8 | 7.3 | 7 | 7 | 7.1 | 7 |
| Electrical Conductivity (µS/cm) | Monthly | 900 | 931.5 | 929 | 943 | 972 | 954 | 955 | 961 | 957 | 953 | 1003 | 1020 |
| Total Ammonia mg/l | Monthly | 3 | 3 | 2.9 | 2.7 | 2.8 | 2.7 | 2.9 | 2.8 | 3.1 | 3 | 2.9 | 2.9 |
| sulphate(SO4) mg/l | Monthly | 7.7 | 15 | 20 | 17 | 16 | 13 | 9.5 | 9.8 | 5.9 | 4.8 | 3.9 | 5.4 |
| Arsenic (μg/l) | Annually | | | | | | | 7 | | | | | |
| Boron (µg/l) | Annually | | | | | | | 5 | | | | | |
| Silver (µg/l) | Annually | | | | | | | 2 | | | | | |
| Aluminium (µg/l) | Annually | | | | | | | 95 | | | | | |
| Berylium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Barium (µg/l) | Annually | | | | | | | 424 | | | | | |
| calcium (mg/l) | Annually | | | | | | | 118 | | | | | |
| chromium (µg/I) | Annually | | | | | | | 2 | | | | | |
| Cadmium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Cobalt (µg/l) | Annually | | | | | | | 2 | | | | | |
| Copper (µg/l) | Annually | | | | | | | 2 | | | | | |
| Iron (mg/l) | Annually | | | | | | | 7.9 | | | | | |
| Potassium (mg/l) | Annually | | | | | | | 38 | | | | | |
| Magnesium (mg/l) | Annually | | | | | | | 8.2 | | | | | |
| Manganese (µg/l) | Annually | | | | | | | 492 | | | | | |
| Sodium (mg/l) | Annually | | | | | | | 32 | | | | | |
| Nickel (µg/l) | Annually | | | | | | | 4 | | | | | |
| Lead (µg/l) | Annually | | | | | | | 2 | | | | | |
| Antimony (µg/l) | Annually | | | | | | | 2 | | | | | |
| Selenium (µg/l) | Annually | | | | | | | 2 | | | | | |
| Tin (μg/l) | Annually | | | | | | | 2 | | | | | |
| Zinc (µg/l) | Annually | | | | | | | 84 | | | | | |
| Mercury (µg/l) | Annually | | | | | | | 1 | | | | | |
| Flouride (mg/l) | Annually | | | | | | | 0.1 | | | | | |
| PO4-P (mg/l) | Annually | | | | | | | 0.16 | | | | | |
| VOC's USEPA 524.2 (µg/l) | Annually | | | | | | | All<1* | | | | | |
| SVOC'S (µg/I) | Annually | | | | | | | All<1** | | | | | |
| Comb Pesticide suite (µg/l) | Annually | | | | | | | All <0.01*** | | | | | |

^{*}Except Dichloromethane <3
**Except Bis(2-ethylhexyl)phthalate <2
*** Except Malathion <0.03
*** Except Azinphos Methyl <0.02



| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049_2014.xls | Return Year : 2014 |

24/03/2015 14:54

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1

| REFERENCE YEAR 20 | 014 |
|-------------------|-----|
| | |

| 1. FACILITY IDENTIF | ICATION |
|---------------------|---------|
|---------------------|---------|

| Parent Company Name | Bord na Mona Energy Limited |
|----------------------------|-----------------------------|
| Facility Name | Clonbulloge Ash Repository |
| PRTR Identification Number | W0049 |
| Licence Number | W0049-02 |

Classes of Activity

| Classes of Activ | ity |
|------------------|--|
| N | o. class_name |
| | - Refer to PRTR class activities below |

| Address 1 | Cloncreen Bog |
|---|--|
| Address 2 | Clonbulloge |
| Address 3 | |
| Address 4 | |
| | |
| | Offaly |
| Country | Ireland |
| Coordinates of Location | -7.11013 53.274 |
| River Basin District | IESE |
| NACE Code | 3821 |
| | Treatment and disposal of non-hazardous waste |
| AER Returns Contact Name | Enda McDonagh (W0049) |
| AER Returns Contact Email Address | enda.mcdonagh@bnm.ie |
| AER Returns Contact Position | Head of Environmental Engineering |
| AER Returns Contact Telephone Number | |
| AER Returns Contact Mobile Phone Number | 086 2370816 |
| AER Returns Contact Fax Number | 057 9345160 |
| Production Volume | 26086.0 |
| Production Volume Units | Tonnes |
| Number of Installations | 1 |
| Number of Operating Hours in Year | 3796 |
| Number of Employees | 4 |
| User Feedback/Comments | |
| | |
| | There are no loadings calculated on emissions to water as flow |
| | measurement is not a licence requirement. |
| Web Address | www.bnm.ie |

2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name |
|-----------------|---------------|
| 5(d) | Landfills |

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

| 3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002) |
|--|
| Is it applicable? No |
| Have you been granted an exemption ? |
| If applicable which activity class applies (as per |
| Schedule 2 of the regulations) ? |
| Is the reduction scheme compliance route being |
| used ? |

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

| Do you import/accept waste onto your site for or | 1- |
|--|----|
| site treatment (either recovery or disposa | |
| activities) | ? |

No
This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049_2014.xls | Return Year : 2014 |

24/03/2015 14:55

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

| OZOTION OTREMPANIOTO CZZOTNATI ZIMO | RELEASES TO AIR | | | | | | | | | | |
|-------------------------------------|-----------------|-------|-------------|--|------------------|------------------|------------------|------------------|--------------------------|-----------|--------------|
| | | | | Please enter all quantities in this section in KGs | | | | | | | |
| POLLUTANT | | | METH | OD | | | | | QUAN | ITITY | |
| | | | Me | hod Used | DM-01 | DM-02 | DM-03 | DM-04 | | | |
| | | | | | | | | | A (Acci | cidental) | F (Fugitive) |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | Emission Point 2 | Emission Point 3 | Emission Point 4 | T (Total) KG/Year KG/Yea | ear | KG/Year |
| 210 | Dust | F | OTH | VDI 2199 Blatt 2/Part 2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.042392 | 0.0 | 0.04239 |

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

Additional Data Requested from Landfill operators

| flared or utilised on their facilities to accompany the fig | use Gases, landfill operators are requested to provide summary data on landfill gas (Methane) ures for total methane generated. Operators should only report their Net methane (CH4) ction A: Sector specific PRTR pollutants above. Please complete the table below: | | | | | |
|---|---|-------|-------------|----------------|----------------------------|----------------------------|
| emission to the environment under I (total) KG/yr for Se | ction A: Sector specific PKTK pollutants above. Please complete the table below: | | | | | |
| Landfill: | Clonbulloge Ash Repository | | | | | |
| Please enter summary data on the | | | | | | |
| quantities of methane flared and / or | | | | | | |
| utilised | | | Meth | hod Used | | |
| | | | | Designation or | Facility Total Capacity m3 | |
| 1 | T (Total) kg/Year | M/C/E | Method Code | Description | per hour | |
| Total estimated methane generation (as per | | | | | | |
| site model) | 0.0 | | | | N/A | |
| Methane flared | 0.0 | | | | 0.0 | (Total Flaring Capacity) |
| Methane utilised in engine/s | 0.0 | | | | 0.0 | (Total Utilising Capacity) |
| Net methane emission (as reported in Section | | | | | | |
| A above) | 0.0 | | | | N/A | |

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049_2014.xls | Return Year : 2014 |

24/03/2015 14:56

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

| SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this onl | | | | | | | | |
|--|--------------------|-------|-------------|----------------------------|----------------------------|--------------------------|------------------------|----------------------|
| | RELEASES TO WATERS | | | | Please enter all quantitie | es in this section in KG | S | |
| PO | QUANTITY | | | | | | | |
| | | | | Method Used | | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | C | 0.0 | 0.0 | 0.0 |

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

SECTION B: REMAINING PRTR POLLUTANTS

| DECITION D. REINFARMO FROM DEED FAIR | | | | | | | | |
|--------------------------------------|------|-------|-------------|-----------------------------|------------------------|-------------------|------------------------|----------------------|
| | | | | Please enter all quantities | in this section in KGs | 5 | | |
| POLLUTANT | | | QUANTITY | | | | | |
| | | | | Method Used | | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

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

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

| | RELEASES TO WATERS | | | | Please enter all quantities | in this section in KGs | 3 | |
|---------------|--------------------|-------|-------------|----------------------------|-----------------------------|------------------------|------------------------|----------------------|
| POLLUTANT | | | | | | QUANTITY | | |
| | | | | Method Used | | | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | 0.0 | 0.0 | 0.0 | 0.0 |

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049_2014.xls | Return Ye

24/03/2015 14:56

SECTION A: PRTR POLLUTANTS

| OFFSITE TRANS | SFER OF POLLUTANTS DESTINED FOR WASTE-V | WATER TREATMENT OR SEWER Please enter all quantities in this section in KGs | | | | | | | | |
|---------------|---|---|-------------|----------------------------|------------------|-------------------|-----|------------------------|-------------------|------|
| PO | LLUTANT | METHOD | | | QUANTITY | | | | | |
| | | | Met | hod Used | | | | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | | A (Accidental) KG/Year | F (Fugitive) KG/Y | /ear |
| | | | | | 0.0 | 1 | 0.0 | 0.0 | | 0.0 |

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

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

| DECITION B. REMAINING TO DESTAIN EMISSIONS (as required in your electice) | | | | | | | | | | | |
|---|---|--------------------------|-------------|----------------------------|--|-------------------|------------------------|----------------------|--|--|--|
| OFFSITE TRANS | SFER OF POLLUTANTS DESTINED FOR WASTE-V | WATER TREATMENT OR SEWER | | | Please enter all quantities in this section in KGs | | | | | | |
| PO | LLUTANT | METHOD | | | QUANTITY | | | | | | |
| | | | | Method Used | | | | | | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year | | | |
| | | | | | 0.0 | | 0.0 | 0.0 | | | |

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

Link to previous years emissions data Page 1 of 1

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049_2014.xls | Return Year : 2014 |

24/03/2015 14:57

SECTION A: PRTR POLLUTANTS

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

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

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

| *************************************** | | | | | | | | | | | |
|---|-----------|-------------|-------------|----------------------------|--|-------------------|------------------------|--|--|--|--|
| | RELEA | SES TO LAND | | | Please enter all quantities in this section in KGs | | | | | | |
| | POLLUTANT | | METHOD | | | | QUANTITY | | | | |
| | | | Method Used | | | | | | | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | | | | |
| | | | | | | 0.0 | 0.0 0 | | | | |

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0049 | Facility Name : Clonbulloge Ash Repository | Filename : W0049_2014.xls | Return Year : 2014 | Please enter all quantities on this sheet in Tonnes

24/03/2015 14:58

| | | | | Please enter a | all quantities on this sheet in Tonnes | | | | | | | | 3 |
|---|--------------------------------|----------------|-----------|----------------------------------|--|-----------|-------|--------------------|--------------------|--|--|---|--|
| | | | | Quantity (Tonnes per Year) | | Waste | | Method Used | | Haz Waste: Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer | Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
| | | European Waste | | | | Treatment | | | Location of | | | | |
| | Transfer Destination | | Hazardous | | Description of Waste | | M/C/E | Method Used | Treatment | | | | |
| , | Within the Country 20 03 01 No | | | 0.57 | mixed municipal waste | D1 | С | Volume Calculation | Offsite in Ireland | AES Ltd Cappincur Tullamore Co Offaly,WCP- OY-08-601-01 AES Ltd Cappincur | Cappincur,Tullamore,Co Offaly,.,Ireland | | |
| | Within the Country | 20 03 01 | No | 7.34 | mixed municipal waste | D1 | М | Weighed | Offsite in Ireland | Tullamore Co Offaly,WCP- OY-08-601-01 | Cappincur,Tullamore,Co Offaly,.,Ireland | | |

^{*} Select a row by double-clicking the Description of Waste then click the delete button