

Annual Environmental Report

Jan 2017 – Dec 2017

2017



W0169-01

**Cloonaugh
Drumlish
Co. Longford**

| Facility Information Summary | |
|--|---|
| AER Reporting Year | 2017 |
| Licence Register Number | W0169-01 |
| Name of site | Mulleady's Ltd |
| Site Location | Cloonaugh Drumlish Co. Longford |
| NACE Code | 3811, 3821 |
| Class/Classes of Activity | Principal Class of Activity 3.13 |
| National Grid Reference (6E, 6 N) | "-7.7835" 53.8063" |
| A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise. | Mulleadys Ltd is a waste recycling and transfer facility licenced to accept 95.000 tonnes of waste per annum. We operate three recycling sheds. Shed 1 deals with all mixed waste from wheelie bins, skips and roll-ons. Recycling and recoverable elements are hand picked off. Trommeling of the waste resumed in February 2014. The oversize (over 50mm) fraction was transferred to landfill or for incineration, the undersize which comprises of waste fines was transferred to a composting plant for stabilisation. Recycling shed 2 deals with Mixed Dry Recyclables coming from municipal collections. All mixed dry recyclables are unloaded to shed 2 floor from where transferred by inclined conveyor to the picking line. Shed 3 is home to the picking line where the segregation of mixed dry recyclables takes place before the material is sent to the various recycling outlets. Mulleadys accepted 31737.88 tonnes of material in reporting period 2017 of which 1% was sent to landfill, 39% sent for incineration, 24% sent for recycling and 36% for recovery. By continuous introduction of the brown bin we diverted 557 tonnes of organic waste from landfill. |

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

| | |
|---|------------|
|  | 31/03/2018 |
| Signature | Date |
| Group/Facility manager | |
| (or nominated, suitably qualified and experienced deputy) | |

| | | |
|-----------------------------|------------------|-----------|
| AIR-summary template | Lic No: W0169-01 | Year 2017 |
|-----------------------------|------------------|-----------|

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 <u>do not</u> need to complete the tables | Additional information | |
| | | Yes | During the reporting period three set of results were obtained for dust. Standard method VD112119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute) was utilized for analysis. |

Periodic/Non-Continuous Monitoring

| | | | |
|---|---|-----|--|
| 2 | Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below | No | |
| 3 | Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? Basic air monitoring checklist AGN2 | Yes | |

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

| Emission reference no: | Parameter/ Substance | Frequency of Monitoring | ELV in licence or any revision thereof | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence limit | Method of analysis | Annual mass load (kg) | Comments - reason for change in % mass load from previous year if applicable |
|------------------------|----------------------|-------------------------|--|-----------------------------|----------------|---------------------|------------------------------|---|-----------------------|--|
| No 1 D1 | Dust | 03/04/2017 - 02/05/2017 | No | 350mg/m2/day | 26.7 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.0097455 | |
| No 1 D3 | Dust | 03/04/2017 - 02/05/2017 | No | 350mg/m2/day | 28.3 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.0103295 | |
| No 1 D4 | Dust | 03/04/2017 - 02/05/2017 | No | 350mg/m2/day | 22.2 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.008103 | |

| AIR-summary template | | Lic No: | | W0169-01 | | Year | | 2017 | |
|----------------------|------|-------------------------|----|--------------|------|-----------|-----|---|------------|
| No.2 D1 | Dust | 25/07/2017 - 23/08/2017 | No | 350mg/m2/day | 112 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.04088 |
| No.2 D3 | Dust | 25/07/2017 - 23/08/2017 | No | 350mg/m2/day | 28.3 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.0103295 |
| No.2 D4 | Dust | 25/07/2017 - 23/08/2017 | No | 350mg/m2/day | 56.7 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.0206955 |
| No. 3 D1 | Dust | 02/10/2017 - 31/10/2017 | No | 350mg/m2/day | 1.67 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.00060955 |
| No. 3 D3 | Dust | 02/10/2017 - 31/10/2017 | No | 350mg/m2/day | 3.33 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.00121545 |
| No. 3 D4 | Dust | 02/10/2017 - 31/10/2017 | No | 350mg/m2/day | 22.8 | mg/m2/day | yes | Dust is collected using a jam jar container, Bergerhoff method. Determination of Dust | 0.008322 |

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

| | | |
|------------------------------|------------------|------------|
| AIR-summary template | Lic No: W0169-01 | Year: 2017 |
| Continuous Monitoring | | |

4 Does your site carry out continuous air emissions monitoring? _____
 If yes please review your continuous monitoring data and report the required fields below in Table A2 and compare it to its relevant Emission Limit Value (ELV)

5 Did continuous monitoring equipment experience downtime? If yes please record downtime in table A2 below _____

6 Do you have a proactive service agreement for each piece of continuous monitoring equipment? _____

7 Did your site experience any abatement system bypasses? If yes please detail them in table A3 below _____

Table A2: Summary of average emissions -continuous monitoring

| Emission reference no: | Parameter/ Substance | ELV in licence or any revision thereof | Averaging Period | Compliance Criteria | Units of measurement | Annual Emission | Annual maximum | Monitoring Equipment downtime (hours) | Number of ELV exceedences in current reporting year | Comments |
|------------------------|----------------------|--|------------------|---------------------|----------------------|-----------------|----------------|---------------------------------------|---|----------|
| | SELECT | | | SELECT | SELECT | | | | | |
| | SELECT | | | | SELECT | | | | | |
| | SELECT | | | | SELECT | | | | | |
| | SELECT | | | | SELECT | | | | | |
| | SELECT | | | | SELECT | | | | | |

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

Table A3: Abatement system bypass reporting table [Bypass protocol](#)

| Date* | Duration** (hours) | Location | Reason for bypass | Impact magnitude | Corrective action |
|-------|--------------------|----------|-------------------|------------------|-------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

* this should include all dates that an abatement system bypass occurred

** an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

Solvent use and management on site

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

No

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

Table A5: Solvent Mass Balance summary

| | (I) Inputs (kg) | (O) Outputs (kg) | | | | | | |
|---------|-----------------|---|-----------------------------|------------------------------|-------------------------------|---|-----------------------------------|---------------------------------------|
| Solvent | (I) Inputs (kg) | Organic solvent emission in waste gases(kg) | Solvents lost in water (kg) | Collected waste solvent (kg) | Fugitive Organic Solvent (kg) | Solvent released in other ways e.g. by- | Solvents destroyed onsite through | Total emission of Solvent to air (kg) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Total | | | | | | | | |

1 Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If you do not have licensed emissions you only need to complete table W1 and or W2 for storm water analysis and visual inspections

2 Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections

| | |
|-----|--|
| Yes | In 2017 the monitoring of surface water was carried out in accordance with Schedule D4 of the waste Licence. Daily visual inspections are carried out on the surface water pott SD-1. June 2nd 2011 Mulleadys requested review of monitoring requirement of off-site surface water drain. The Agency reviewed the past 4 years monitoring data for SD-1, SW-1 and SW-2 and agreed to propose a reduction in monitoring locations under Condition 7.2 of the licence. Mulleadys continued to monitor surface water discharges at the on-site chamber downstream of the interceptors on a quarterly basis as per the licence requirements and visual inspections on a daily basis. |
| Yes | |

Table W1 Storm water monitoring

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

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

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

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

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

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

4 Was all monitoring carried out in accordance with EPA guidance and checklists for Quality of Aqueous Monitoring Data Reported to the EPA? If no please detail what areas require improvement in additional information box

| | |
|-----|--|
| No | Additional information |
| Yes | External /internal Lab Quality Assessment of results checklist |

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

| Emission reference no: | Emission released to | Parameter/ Substance>Note 1 | Type of sample | Frequency of monitoring | Averaging period | ELV or trigger values in licence or any revision thereof>Note 2 | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence | Method of analysis | Procedural reference source | Procedural reference standard number | Annual mass load (kg) | Comments |
|------------------------|----------------------|-----------------------------|----------------|-------------------------|------------------|---|-----------------------------|----------------|---------------------|------------------------|---|-----------------------------|--------------------------------------|-----------------------|--|
| SD-1 | Water | Suspended Solids | discrete | 22/03/2017 | SELECT | ≤25mg/l | All values < ELV | <2 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | Suspended Solids | discrete | 07/07/2017 | SELECT | ≤25mg/l | All values < ELV | 2.3 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | 0.0008395 | |
| SD-1 | Water | Suspended Solids | discrete | 20/09/2017 | SELECT | ≤25mg/l | All values < ELV | <2 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | Suspended Solids | discrete | 15/11/2017 | SELECT | ≤25mg/l | All values < ELV | <2 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | BOD | discrete | 22/03/2017 | SELECT | ≤5mg/O2 | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | Blue Book 130 | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | BOD | discrete | 07/07/2017 | SELECT | ≤5mg/O2 | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | Blue Book 130 | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | BOD | discrete | 20/09/2017 | SELECT | ≤5mg/O2 | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | Blue Book 130 | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | BOD | discrete | 15/11/2017 | SELECT | ≤5mg/O2 | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | Blue Book 130 | NA | Value not a number but a range so mass cannot be calculated. |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | | | | | | | | | | | |
|---|-------|---------------------|----------|------------|--------|------------|------------------|--------|----------|-----|--|--|---|-------------|--|
| Lic No: W0169-01 | | | | | | | | | | | | | | | |
| Year 2017 | | | | | | | | | | | | | | | |
| SD-1 | Water | Ammoniacal Nitrogen | discrete | 22/03/2017 | SELECT | 0.02MG/l N | All values < ELV | 0.253 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser | B.S. (British Standard) | BS 2690: Part7: 1968 / BS 6068: Part2.11:1984 | 0.00092345 | |
| SD-1 | Water | Ammoniacal Nitrogen | discrete | 07/07/2017 | SELECT | 0.02MG/l N | All values < ELV | 0.16 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser | B.S. (British Standard) | BS 2690: Part7: 1968 / BS 6068: Part2.11:1984 | 0.0000584 | |
| SD-1 | Water | Ammoniacal Nitrogen | discrete | 20/09/2017 | SELECT | 0.02MG/l N | All values < ELV | 4.94 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser | B.S. (British Standard) | BS 2690: Part7: 1968 / BS 6068: Part2.11:1984 | 0.0018031 | |
| SD-1 | Water | Ammoniacal Nitrogen | discrete | 15/11/2017 | SELECT | 0.02MG/l N | All values < ELV | 0.0274 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser | B.S. (British Standard) | BS 2690: Part7: 1968 / BS 6068: Part2.11:1984 | 0.000010001 | |
| SD-1 | Water | COD | discrete | 22/03/2017 | SELECT | | All values < ELV | 12.4 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.004526 | |
| SD-1 | Water | COD | discrete | 07/07/2017 | SELECT | | All values < ELV | 15.6 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.005694 | |
| SD-1 | Water | COD | discrete | 20/09/2017 | SELECT | | All values < ELV | 8.96 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.0032704 | |
| SD-1 | Water | COD | discrete | 15/11/2017 | SELECT | | All values < ELV | 8.19 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.00298935 | |
| SD-1 | Water | Conductivity | discrete | 22/03/2017 | SELECT | 1000µS/cm | All values < ELV | 0.368 | mS/cm | yes | Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter | B.S. (British Standard) | BS 2690: Part 9:1970 | 0.00013432 | |
| SD-1 | Water | Conductivity | discrete | 07/07/2017 | SELECT | 1000µS/cm | All values < ELV | 0.328 | mS/cm | yes | Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter | B.S. (British Standard) | BS 2690: Part 9:1970 | 0.00011972 | |
| SD-1 | Water | Conductivity | discrete | 20/09/2017 | SELECT | 1000µS/cm | All values < ELV | 0.346 | mS/cm | yes | Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter | B.S. (British Standard) | BS 2690: Part 9:1970 | 0.00012629 | |
| SD-1 | Water | Conductivity | discrete | 15/11/2017 | SELECT | 1000µS/cm | All values < ELV | 0.35 | mS/cm | yes | Alcontrol Laboratories, TM120, Determination of Electrical Conductivity using a Conductivity Meter | B.S. (British Standard) | BS 2690: Part 9:1970 | 0.00012775 | |
| SD-1 | Water | Mineral oils | discrete | 22/03/2017 | SELECT | 5mg/l | All values < ELV | <10 | µ/L | yes | Alcontrol Laboratories, TM172, EPH in Waters | Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria | | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | Mineral oils | discrete | 07/07/2017 | SELECT | 5mg/l | All values < ELV | <10 | µ/L | yes | Alcontrol Laboratories, TM172, EPH in Waters | Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria | | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | Mineral oils | discrete | 20/09/2017 | SELECT | 5mg/l | All values < ELV | <100 | µ/L | yes | Alcontrol Laboratories, TM172, EPH in Waters | Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria | | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | Mineral oils | discrete | 15/11/2017 | SELECT | 5mg/l | All values < ELV | <100 | µ/L | yes | Alcontrol Laboratories, TM172, EPH in Waters | Analysis of Petroleum Hydrocarbons in Environmental Media - Total petroleum Hydrocarbon Criteria | | NA | Value not a number but a range so mass cannot be calculated. |
| SD-1 | Water | pH | discrete | 22/03/2017 | SELECT | 6.0 - 9.0 | All values < ELV | 7.43 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.00271195 | |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | Lic No: | W0169-01 | Year | 2017 | | | | | | | |
|---|------------------|------------------|----------|------------|---------|-----------|------------------|------|----------|-----|---|--|-----------|------------|--|
| SD-1 | Water | pH | discrete | 07/07/2017 | SELECT | 6.0 - 9.0 | All values < ELV | 7.27 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.00265355 | |
| SD-1 | Water | pH | discrete | 20/09/2017 | SELECT | 6.0 - 9.0 | All values < ELV | 7.34 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.0026791 | |
| SD-1 | Water | pH | discrete | 15/11/2017 | SELECT | 6.0 - 9.0 | All values < ELV | 7.42 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.0027083 | |
| WWT-1 | Wastewater/Sewer | Suspended Solids | discrete | 08/03/2017 | | 400mg/l | All values < ELV | 13.4 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | 0.004891 | |
| WWT-1 | Wastewater/Sewer | Suspended Solids | discrete | 02/05/2017 | | 400mg/l | All values < ELV | 17.3 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | 0.0063145 | |
| WWT-1 | Wastewater/Sewer | Suspended Solids | discrete | 23/08/2017 | | 400mg/l | All values < ELV | 10.8 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | 0.003942 | |
| WWT-1 | Wastewater/Sewer | Suspended Solids | discrete | 15/11/2017 | | 400mg/l | All values < ELV | 16.9 | mg/L | yes | Alcontrol Laboratories Method: TM022, Determination of total suspended solids in waters | B.S. (British Standard) | BS EN 872 | 0.0061685 | |
| WWT-1 | Wastewater/Sewer | BOD | discrete | 08/03/2017 | | 400mg/l | All values < ELV | <5 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | | NA | Value not a number but a range so mass cannot be calculated. |
| | | | | | | | | | | | | Blue Book 130 | | | |
| WWT-1 | Wastewater/Sewer | BOD | discrete | 02/05/2017 | | 400mg/l | All values < ELV | <10 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | | NA | Value not a number but a range so mass cannot be calculated. |
| | | | | | | | | | | | | Blue Book 130 | | | |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | Lic No: | W0169-01 | Year | 2017 | | | | | | | |
|---|------------------|----------------------------|----------|------------|---------|----------|------------------|-------|------|-----|--|---------------------------|--|------------|--|
| WWT -1 | Wastewater/Sewer | BOD | discrete | 23/08/2017 | | 400mg/l | All values < ELV | 30.1 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | Blue Book 130 | 0.0109865 | |
| WWT -1 | Wastewater/Sewer | BOD | discrete | 15/11/2017 | | 400mg/l | All values < ELV | <16.7 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids | UK SCA "Blue Book" series | Blue Book 130 | NA | Value not a number but a range so mass cannot be calculated. |
| WWT -1 | Wastewater/Sewer | Ammoniacal Nitrogen (as N) | discrete | 08/03/2017 | | 100mg/l | All values < ELV | 2.19 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser | B.S. (British Standard) | BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984 | 0.00079935 | |
| WWT -1 | Wastewater/Sewer | Ammoniacal Nitrogen (as N) | discrete | 02/05/2017 | | 100mg/l | All values < ELV | 7.81 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser | B.S. (British Standard) | BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984 | 0.00285065 | |
| WWT -1 | Wastewater/Sewer | Ammoniacal Nitrogen (as N) | discrete | 23/08/2017 | | 100mg/l | All values < ELV | 4.49 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser | B.S. (British Standard) | BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984 | 0.00163885 | |
| WWT -1 | Wastewater/Sewer | Ammoniacal Nitrogen (as N) | discrete | 15/11/2017 | | 100mg/l | All values < ELV | 7.41 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Samples using Kone Analyser | B.S. (British Standard) | BS 2690: Part 7: 1968 / BS 6068: Part2.11:1984 | 0.00270465 | |
| WWT -1 | Wastewater/Sewer | COD | discrete | 08/03/2017 | | 1600mg/l | All values < ELV | 36.5 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.0133225 | |
| WWT -1 | Wastewater/Sewer | COD | discrete | 02/05/2017 | | 1600mg/l | All values < ELV | 46.4 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.016936 | |
| WWT -1 | Wastewater/Sewer | COD | discrete | 23/08/2017 | | 1600mg/l | All values < ELV | 53.7 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.0196005 | |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | Lic No: | W0169-01 | Year | 2017 | | | | | | | |
|---|------------------|--------------------------|----------|------------|---------|----------|------------------|-------|------|-----|--|-----|-----------------------|-------------|--|
| WWT -1 | Wastewater/Sewer | COD | discrete | 15/11/2017 | | 1600mg/l | All values < ELV | 43.4 | mg/L | yes | Alcontrol Laboratories, TM 107, Determination of Chemical Oxygen Demand using COD Dr Lange Kit | ISO | ISO 6060-1989 | 0.015841 | |
| WWT -1 | Wastewater/Sewer | Ortho-phosphate (as PO4) | discrete | 08/03/2017 | | 10mg/l | All values < ELV | <0.05 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | NA | Value not a number but a range so mass cannot be calculated. |
| WWT -1 | Wastewater/Sewer | Ortho-phosphate (as PO4) | discrete | 02/05/2017 | | 10mg/l | All values < ELV | 0.365 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.000133225 | |
| WWT -1 | Wastewater/Sewer | Ortho-phosphate (as PO4) | discrete | 23/08/2017 | | 10mg/l | All values < ELV | 0.064 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.00002336 | |
| WWT -1 | Wastewater/Sewer | Ortho-phosphate (as PO4) | discrete | 15/11/2017 | | 10mg/l | All values < ELV | 0.67 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.00024455 | |
| WWT -1 | Wastewater/Sewer | Sulphate | discrete | 08/03/2017 | | 1000mg/l | All values < ELV | 52.3 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.0190895 | |
| WWT -1 | Wastewater/Sewer | Sulphate | discrete | 02/05/2017 | | 1000mg/l | All values < ELV | 89.9 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.0328135 | |
| WWT -1 | Wastewater/Sewer | Sulphate | discrete | 23/08/2017 | | 1000mg/l | All values < ELV | 57.8 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.021097 | |
| WWT -1 | Wastewater/Sewer | Sulphate | discrete | 15/11/2017 | | 1000mg/l | All values < ELV | 5.5 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.0020075 | |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | Lic No: | W0169-01 | Year | 2017 | | | | | | | |
|---|------------------|-------------------|----------|------------|---------|-----------|------------------|------|----------|-----|--|--|--|------------|--|
| WWT -1 | Wastewater/Sewer | TPH/Oil & Greases | discrete | 08/03/2017 | | 100mg/l | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy | The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London | | NA | Value not a number but a range so mass cannot be calculated. |
| WWT -1 | Wastewater/Sewer | TPH/Oil & Greases | discrete | 02/05/2017 | | 100mg/l | All values < ELV | 1.6 | mg/L | yes | Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy | The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London | | 0.000584 | |
| WWT -1 | Wastewater/Sewer | TPH/Oil & Greases | discrete | 23/08/2017 | | 100mg/l | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy | The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London | | NA | Value not a number but a range so mass cannot be calculated. |
| WWT -1 | Wastewater/Sewer | TPH/Oil & Greases | discrete | 15/11/2017 | | 100mg/l | All values < ELV | <1 | mg/L | yes | Alcontrol Laboratories, TM235, Determination of Total Petroleum Hydrocarbons (TPH) in Waters By Infra-Red Spectroscopy | The Determination of Hydrocarbon Oils in Waters by Solvent Extraction, Infra red Absorption and Gravimetry 1983, HMSO, London | | NA | Value not a number but a range so mass cannot be calculated. |
| WWT -1 | Wastewater/Sewer | pH | discrete | 08/03/2017 | | 6.0 - 9.0 | All values < ELV | 7.54 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.0027521 | |
| WWT -1 | Wastewater/Sewer | pH | discrete | 02/05/2017 | | 6.0 - 9.0 | All values < ELV | 7.06 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.0025769 | |
| WWT -1 | Wastewater/Sewer | pH | discrete | 23/08/2017 | | 6.0 - 9.0 | All values < ELV | 7.45 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.00271925 | |
| WWT -1 | Wastewater/Sewer | pH | discrete | 15/11/2017 | | 6.0 - 9.0 | All values < ELV | 7.46 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.0027229 | |
| SG - 1 | Water | Suspended Solids | discrete | 08/03/2017 | | 30mg/l | All values < ELV | 4.85 | mg/L | yes | Alcontrol Laboratories TM022, Determination of total suspended solids in water | UK SCA "Blue Book" series Blue Book 130 | | 0.00177025 | |

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | Lic No: | W0169-01 | Year | 2017 | | | | | | | |
|---|-------|----------------------------|----------|------------|---------|-----------|------------------|------|----------|-----|--|--|---|------------|--|
| SG - 1 | Water | BOD | discrete | 08/03/2017 | | 20mg/l | All values < ELV | 5.05 | mg/L | yes | Alcontrol Laboratories TM045, Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids in water | UK SCA "Blue Book" series | Blue Book 130 | 0.00184325 | |
| SG - 1 | Water | Ammoniacal Nitrogen (as N) | discrete | 08/03/2017 | | 5mg/l | All values < ELV | 1.45 | mg/L | yes | Alcontrol Laboratories, TM099, Determination of Ammonium in Water Sampling using the Kone Analyser | B.S. (British Standard) | BS 2690: Part7: 1968 / BS 6068: Part2.11:1984 | 0.00052925 | |
| SG - 1 | Water | Nitrates | discrete | 08/03/2017 | | | All values < ELV | 3.77 | mg/L | yes | Alcontrol Laboratories, TM184, The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers | EPA | Methods 325.1 & 325.2 | 0.00137605 | |
| SG - 1 | Water | Ph | discrete | 08/03/2017 | | 6.0 - 9.0 | All values < ELV | 8.07 | pH units | yes | Alcontrol Laboratories, TM256, Determination of pH in Waters and Leachate using the GLpH pH Meter | The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4 | | 0.00294555 | |

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

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

Continuous monitoring

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

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

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

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

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

Table W4: Summary of average emissions -continuous monitoring

| Emission reference no: | Emission released to | Parameter/ Substance | ELV or trigger values in licence or any revision thereof | Averaging Period | Compliance Criteria | Units of measurement | Annual Emission for current reporting year (kg) | % change +/- from previous reporting year | Monitoring Equipment downtime (hours) | Number of ELV exceedences in reporting year | Comments |
|------------------------|----------------------|----------------------|--|------------------|---------------------|----------------------|---|---|---------------------------------------|---|----------|
| | SELECT | SELECT | | SELECT | SELECT | SELECT | | | | | |
| | SELECT | SELECT | | SELECT | SELECT | SELECT | | | | | |

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

Table W5: Abatement system bypass reporting table

| Date | Duration (hours) | Location | Resultant emissions | Reason for bypass | Corrective action* | Was a report submitted to the EPA? | When was this report submitted? |
|------|------------------|----------|---------------------|-------------------|--------------------|------------------------------------|---------------------------------|
| | | | | | | SELECT | |
| | | | | | | | |

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

Are you required by your licence to undertake integrity testing on bunds and containment structures? If yes please fill out table B1 below listing all **new bunds and containment structures** on site, in addition to all bunds which failed the integrity test - all bunding structures which failed including mobile bunds must be listed in the table below, please include all bunds outside the licenced testing period (mobile bunds and chemstore included)

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

| | |
|---------|--|
| Yes | |
| 3 years | |
| Yes | |
| 1 | |
| 1 | |
| 0 | |
| N/A | |
| N/A | |
| N/A | |
| N/A | |
| Yes | |
| Yes | |
| N/A | |

Table B1: Summary details of bund /containment structure integrity test

| Bund/Containment structure ID | Type | Specify Other type | Product containment | Actual capacity | Capacity required* | Type of integrity test | Other test type | Test date | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|---|----------------------------|--------------------|---------------------|-----------------|--------------------|------------------------|-----------------|------------|---------------------------------------|-----------------|--|-------------------------|---------------------------|---|
| Waste Water Collection Tank | reinforced concrete | | Waste Water | | 35,000 Ltr | Structural assessment | | 01/03/2014 | Yes | Pass | | SELECT | 01/04/2017 | |
| Surface Water Interceptor Tank | reinforced concrete | | Surface Water | | 46000 Ltr | Structural assessment | | 01/03/2014 | Yes | Pass | | | 01/04/2017 | |
| Surface Water Silt Tank | reinforced concrete | | Surface Water | | 23000 Ltr | Structural assessment | | 01/03/2014 | Yes | Pass | | | 01/04/2017 | |
| Bypass Surface Water | Glass Reinforced Polyester | | Surface Water | | 27000 Ltr | Structural assessment | | 01/03/2014 | Yes | Pass | | | 01/04/2017 | |
| Sewage Treatment Plant | prefabricated | | Foul Sewer Water | | | Structural assessment | | 01/03/2014 | Yes | Pass | | | 01/04/2017 | |
| Diesel Bund | prefabricated | | Waste Water | | 66000 Ltr | Structural assessment | | 01/03/2014 | Yes | Pass | | | 01/04/2017 | |
| D20 Waste Water Recycling System - Wash Bay | prefabricated | | Waste Water | | 2000 m3/h | Structural assessment | | 01/03/2014 | Yes | Pass | | SELECT | 01/04/2017 | |

* Capacity required should comply with 25% or 110% containment rule as detailed in your licence

Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA

- 15 Guidance? [bundling and storage guidelines](#)
- 16 Are channels/transfer systems to remote containment systems tested?
- 17 Are channels/transfer systems compliant in both integrity and available volume?

| Commentary | |
|------------|---|
| Yes | Test completed March 2014, Another test carried out in Feb 2018 |
| Yes | Test completed March 2015, Another Test carried out in Feb 2018 |
| Yes | |

Pipeline/underground structure testing

Are you required by your licence to undertake integrity testing* on underground structures e.g. pipelines or sumps etc? If yes please fill out table 2 below listing all underground structures

- 1 and pipelines on site which failed the integrity test and all which have not been tested within the integrity test period as specified
 - 2 Please provide integrity testing frequency period
- *Please note integrity testing means water tightness testing for process and foul pipelines (as required under your licence)

| | |
|---------|--|
| Yes | |
| 3 years | |

Table B2: Summary details of pipeline/underground structures integrity test

| Structure ID | Type system | Material of construction: | Does this structure have Secondary containment? | Type of secondary containment | Type integrity testing | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|---------------------------------|-------------|---------------------------|---|-------------------------------|------------------------|---------------------------------------|-----------------|--|-------------------------|---------------------------|---|
| Surface Water Underground Pipes | Storm | concrete | No | SELECT | Hydraulic | Yes | Pass | | | 01/04/2017 | |
| Waste Water Underground Pipes | Foul | concrete | No | | Hydraulic | Yes | Pass | | | 01/04/2017 | |

Integrity testing was carried out in Feb 2018 and all test results will be included in AER for 2018.

| | | |
|---|------------------|------------|
| Groundwater/Soil monitoring template | Lic No: W0169-01 | Year: 2017 |
|---|------------------|------------|

| Comments | | |
|--|-----|--|
| 1 Are you required to carry out groundwater monitoring as part of your licence requirements? | yes | Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER Testing of Ground Water monitoring point GW-1 is carried out Bi Annually. 2016 results are in accordance with condition 7.1 of our waste licence. Accredited Laboratory Alcontrol Laborories completed testing. Analysis Method/Technique - "Standards Methods for the examination of Water and Wastewater" |
| 2 Are you required to carry out soil monitoring as part of your licence requirements? | no | |
| 3 Do you extract groundwater for use on site? If yes please specify use in comment section | no | |
| 4 Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. | no | |
| 5 Is the contamination related to operations at the facility (either current and/or historic) | N/A | |
| 6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site | N/A | |
| 7 Please specify the proposed time frame for the remediation strategy | N/A | |
| 8 Is there a licence condition to carry out/update ELRA for the site? | yes | |
| 9 Has any type of risk assesment been carried out for the site? | yes | |
| 10 Has a Conceptual Site Model been developed for the site? | yes | |
| 11 Have potential receptors been identified on and off site? | yes | |
| 12 Is there evidence that contamination is migrating offsite? | no | |

Table 1: Upgradient Groundwater monitoring results

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

.+ where average indicates arithmetic mean

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

Table 2: Downgradient Groundwater monitoring results

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration | Average Concentration | unit | GTV's* | SELECT** | Upward trend in yearly average pollutant concentration over last 5 years of monitoring data |
|------------------|---------------------------|----------------------------|-------------|------------------------|-----------------------|-----------------------|------|--------|----------|---|
| 02/05/2017 | GW - 1 | Ammoniacal Nitrogen as NH3 | | Monitored twice a year | <0.2 | | mg/l | | | |
| 15/11/2017 | GW - 1 | Ammoniacal Nitrogen as NH3 | | Monitored twice a year | <0.2 | | mg/l | | | |
| 02/05/2017 | GW - 1 | EPH Range >C10 - C40 (aq) | | Monitored twice a year | <46 | | ug/l | | | SELECT |
| 15/11/2017 | GW - 1 | EPH Range >C10 - C40 (aq) | | Monitored twice a year | <46 | | ug/l | | | SELECT |

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

More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31) [Guidance on the Management of Contaminated Land and Groundwater at EPA Licensed Sites \(EPA 2013\)](#)

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

[Surface water EQS](#)
 [Groundwater regulations](#)
 [Drinking water \(private supply\) standards](#)
 [Drinking water \(public supply\) standards](#)
 [Interim Guideline Values \(IGV\)](#)

Table 3: Soil results

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

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

| Environmental Liabilities template | | Lic No: | W0169-01 | Year | 2017 |
|------------------------------------|--|---------|----------|------|------|
|------------------------------------|--|---------|----------|------|------|

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

| | | | Commentary |
|----|---|--|---|
| 1 | ELRA initial agreement status | Submitted and not agreed by EPA; | |
| 2 | ELRA review status | Review required and not completed; | Mulleady's Ltd submitted ELRA elaborated by Third Party Consultant in Feb 2014. EPA requested the review of ELRA and it was submitted to EPA in June 2015. EPA requested for ELRA to be updated in Oct 2017. Updated ELRA was submitted to EPA. Final agreement on the ELRA costing to be agreed. |
| 3 | Amount of Financial Provision cover required as determined by the latest ELRA | €577,825.00 | |
| 4 | Financial Provision for ELRA status | Not completed. | |
| 5 | Financial Provision for ELRA - amount of cover | NA | |
| 6 | Financial Provision for ELRA - type | bond | |
| 7 | Financial provision for ELRA expiry date | N/A | |
| 8 | Closure plan initial agreement status | Closure plan submitted and agreed by EPA | |
| 9 | Closure plan review status | Completed. | |
| 10 | Financial Provision for Closure status | Not completed. | |
| 11 | Financial Provision for Closure - amount of cover | €128,704 | |
| 12 | Financial Provision for Closure - type | bond | |
| 13 | Financial provision for Closure expiry date | N/A | |

| | | | | | |
|---|--|---------|----------|------|------|
| Environmental Management Programme/Continuous Improvement Programme template | | Lic No: | W0169-01 | Year | 2017 |
|---|--|---------|----------|------|------|

| 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 | Submitted to the Agency 28/02/2004 |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site | Yes | |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements | Yes | |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | Yes | |

Environmental Management Programme (EMP) report

| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
|--|---|----------------------|--|--|--|
| ISO 14001, ISO 9001 Standards Implementation | In order to improve environmental performance and provide assurance on environmental issues to external stakeholders - such as customers, the community and regulatory agencies | 100 | First meeting with choosed ISO company carried out in late 2016. | Managing Director, Environmental Manager | Improved Environmental Management Practices |
| Extension of existing Shed No.1, Shed No.2, Shed No. 3 | To provide an extra roofed storage at the facility and divert loadings of outgoing material | 10 | Proposal layout drawings prepared by Turmec Engineering. | Managing Director | Installation of infrastructure |
| Tank, Bund Integrity Testing | The integrity of the existing tanks and bunds to be tested as required. | 90 | Independent consultant was contracted to carry out bund and tank integrity testing | Managing Director, Environmental Manager | Increased compliance with licence conditions |
| Signage update | Update to existing signage withing the facility (Monitoring points, Civic Amenity, Storage Bays) | 100 | Audit was carried out on the existing signage | Environmental Manager, Project Manager | Improved Environmental Management Practices |

| Environmental Management Programme/Continuous Improvement Programme template | | | | Lic No: | W0169-01 | Year | 2017 |
|--|--|----|---|-------------------|----------|---|------|
| Waste reduction/Raw material usage efficiency | Energy Audit | 70 | Audit was carried out on the existing lightning in order to establish possible savings. Old Harrys Baler was removed and replaced by new IPS TRHE.852 baler with 50% less power demand. | Managing Director | | Improved Environmental Management Practices | |
| Update on the Septic Tank system | Increase the quality of sewerage treatment | 70 | New Septic Tank system comprising of the Tank and pump was purchased. Proposal drawings for raised percolation area prepared. | Managing Director | | Improved Environmental Management Practises | |

Noise monitoring summary report Lic No: W0169-01 Year 2017

- 1 Was noise monitoring a licence requirement for the AER period?
 - If yes please fill in table N1 noise summary below
- 2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? [Noise Guidance note NG4](#)
- 3 Does your site have a noise reduction plan?
- 4 When was the noise reduction plan last updated?
- 5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Table N1: Noise monitoring summary

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | LA _{eq} | LA ₉₀ | LA ₁₀ | LA _{max} | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic) | Is site compliant with noise limits (day/evening/night)? |
|--------------------|-------------|--------------------------|---|------------------|------------------|------------------|-------------------|---------------------------------|---|--|--|
| 01/08/2017 | 10.30 | N1 | | 68.3 | 54.1 | 65.4 | 73.4 | No | SELECT | Processing Plant within the transfer station and external equipment. | Yes |
| 01/08/2017 | 11.00 | N1 | | 71.1 | 49.6 | 61.3 | 74.8 | No | | Processing Plant within the transfer station and external equipment. | Yes |
| 01/08/2017 | 11.30 | N1 | | 75.5 | 51.7 | 62.2 | 79.5 | No | | Processing Plant within the transfer station and external equipment. | Yes |
| 01/08/2017 | 11.31 | N2 | | 65.6 | 49.6 | 65.2 | 69.1 | No | | Noise dominated by traffic noise on the nearby R198 (Drumlish - Longford Road). | Yes |
| 01/08/2017 | 12.02 | N2 | | 62.1 | 50.1 | 62.2 | 70.3 | No | | Noise dominated by traffic noise on the nearby R198 (Drumlish - Longford Road). | Yes |
| 01/08/2017 | 12.35 | N2 | | 59.6 | 42.1 | 63.7 | 76.2 | No | | Noise dominated by traffic noise on the nearby R198 (Drumlish - Longford Road). | Yes |
| 01/08/2017 | 14.00 | N3 | | 52.8 | 41.5 | 48.6 | 70.6 | No | | Traffic movement in the distance is the dominant source of noise at this location. | Yes |
| 01/08/2017 | 14.30 | N3 | | 54.2 | 43 | 50 | 63.2 | No | | Traffic movement in the distance is the dominant source of noise at this location. | Yes |
| 01/08/2017 | 15.00 | N3 | | 50.5 | 42 | 51.9 | 71.2 | No | | Traffic movement in the distance is the dominant source of noise at this location. | Yes |

*Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

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

- 1 When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below
- 2 Is the site a member of any accredited programmes for reducing energy usage/water conservation such as the SEAI programme linked to the right? If yes please list them in additional information
- 3 Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

| Additional information | |
|------------------------|--|
| N/A | |
| No | |
| SELECT | |

| Table R1 Energy usage on site | | | | | |
|--|---------------|--------------|--|--|-----|
| Energy Use | Previous year | Current year | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* | |
| Total Energy Used (MWHrs) | 332535 | 287872 | -13.43% | | |
| Total Energy Generated (MWHrs) | N/A | N/A | N/A | N/A | N/A |
| Total Renewable Energy Generated (MWHrs) | N/A | N/A | N/A | N/A | N/A |
| Electricity Consumption (MWHrs) | 332535 | 287872 | -13.43% | | |
| Fossil Fuels Consumption: | N/A | N/A | N/A | N/A | N/A |
| Heavy Fuel Oil (m3) | N/A | N/A | N/A | N/A | N/A |
| Light Fuel Oil (m3) | N/A | N/A | N/A | N/A | N/A |
| Natural gas (m3) | N/A | N/A | N/A | N/A | N/A |
| Coal/Solid fuel (metric tonnes) | N/A | N/A | N/A | N/A | N/A |
| Peat (metric tonnes) | N/A | N/A | N/A | N/A | N/A |
| Renewable Biomass | N/A | N/A | N/A | N/A | N/A |
| Renewable energy generated on site | N/A | N/A | N/A | N/A | N/A |

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

| Table R2 Water usage on site | | | | | Water Emissions | Water Consumption | |
|------------------------------|--------------------------------------|-------------------------------------|--|--|--|--|------------------------|
| Water use | Water extracted Previous year m3/yr. | Water extracted Current year m3/yr. | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* | Volume Discharged back to environment(m ³ /yr): | Volume used i.e not discharged to environment e.g. released as steam m3/yr | Unaccounted for Water: |
| Groundwater | | | | | | | |
| Surface water | | | | | | | |
| Public supply | 1192 | 1179 | -1.09% | N/A | N/A | N/A | N/A |
| 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) | 6 | 0 | 0 | 6 | 0 |
| Non-Hazardous (Tonnes) | 31857 | 344 | 12481 | 7766 | 11266 |

Resource Usage/Energy efficiency summary Lic No: W0169-01 Year 2017

Table R4: Energy Audit finding recommendations

| Date of audit | Recommendations | Description of Measures proposed | Origin of measures | Predicted energy savings % | Implementation date | Responsibility | Completion date | Status and comments |
|---------------|-----------------|----------------------------------|--------------------|----------------------------|---------------------|----------------|-----------------|---------------------|
| | | | SELECT | | | | | |
| | | | SELECT | | | | | |
| | | | SELECT | | | | | |

Table R5: Power Generation: Where power is generated onsite (e.g. power generation facilities/food and drink industry)please complete the following information

| | Unit ID | Unit ID | Unit ID | Unit ID | Station Total |
|---|---------|---------|---------|---------|---------------|
| Technology | | | | | |
| Primary Fuel | | | | | |
| Thermal Efficiency | | | | | |
| Unit Date of Commission | | | | | |
| Total Starts for year | | | | | |
| Total Running Time | | | | | |
| Total Electricity Generated (GWH) | | | | | |
| House Load (GWH) | | | | | |
| KWH per Litre of Process Water | | | | | |
| KWH per Litre of Total Water used on Site | | | | | |

Complaints and Incidents summary template

Lic No:

W0169-01

Year

2017

Complaints

Additional information

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

Yes

| Table 1 Complaints summary | | | | | | | |
|----------------------------|----------|-----------------------------|---|--|-------------------|-----------------|---------------------|
| Date | Category | Other type (please specify) | Brief description of complaint (Free txt <20 words) | Corrective action< 20 words | Resolution status | Resolution date | Further information |
| 24/03/2017 | Odour | | Complainant rang Mulleadays office about bad smell at his house. | Offsite and onsite odour investigation was carried out. No smell was detected offsite and onsite. All doors were closed on Shed No. 1 Municipal Waste Processing Shed and no waste processing or loading was in progress. | Complete | 24/03/2017 | |
| 27/03/2017 | Odour | | Same complainant rang the office and complained about bad smell emitting from our Facility towards his house. | Offsite and onsite odour investigation was carried out. No smell was detected offsite and onsite. All doors were closed on Shed No. 1 Municipal Waste Processing Shed and no waste processing or loading was in progress. There was approx. 5 tonnes of waste left in Shed No. 1 and approx. 10 tonnes of bulky waste. Complainant was informed about the investigation and recording of his | Complete | 27/03/2017 | |
| 18/04/2017 | Odour | | Same complainant rang the office and complained about bad smell emitting from our Facility towards his house. | Offsite and onsite odour investigation was carried out. No smell was detected offsite and onsite. Investigation was repeated in a time interval and some odour was detected on the opposite site of the facility boundary compare to the location of complainant premises. Tromelling of waste was stopped as a result of the investigation findings. | Complete | 18/04/2017 | |
| 26/06/2017 | Odour | | Same complainant rang the office and complained about bad smell emitting from our Facility towards his house. | Offsite and onsite odour investigation was carried out. No smell was detected offsite and onsite. Spoke to complainant neighbour and he was out gardening before lunch, before complainant made a call and he did not detect any smell. | Complete | 26/06/2017 | |

| | | |
|---|-------------------------------------|------------------------------------|
| WASTE SUMMARY | Lic No: W0169-01 | Year: 2017 |
| SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES | PRTR facility login | dropdown list click to see options |

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

Were any wastes **accepted onto** your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is to be captured through PRTR reporting)

1 If yes please enter details in table 1 below

2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information

| | |
|------------------------|--|
| Additional Information | |
| Yes | |
| No | |
| No | |

3 Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information

Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site, as these will have been reported in your PRTR workbook)

| Licensed annual tonnage limit for your site (total tonnes/annum) | EWG code | Source of waste accepted | Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWG code European Waste Catalogue EWG codes | Quantity of waste accepted in current reporting year (tonnes) | Quantity of waste accepted in previous reporting year (tonnes) | Reduction/ Increase over previous year +/- % | Reason for reduction/ increase from previous reporting year | Packaging Content (%) - only applies if the waste has a packaging component | Disposal/Recovery or treatment operation carried out at your site and the description of this operation |
|--|----------|---|---|---|--|--|--|---|---|
| | 20 03 01 | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Mixed residual waste from household and commercial collections | 17883.04 | 19754.35 | -9% | Decreased intake from 3rd party collectors. | N/A | D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12 |
| | 20 03 01 | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Mixed Dry Recyclables from household and commercial collections | 6692.4 | 7787.21 | -14% | Decreased intake from 3rd party collectors. | 51% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 20 01 08 | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Food waste from households and commercial collection | 543.4 | 484.03 | 12% | Increased number of householders and businesses with brown bins. | N/A | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 20 03 03 | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Street Cleaning Residues | 287.64 | 232.43 | 24% | Increase in the amount of street cleaning residues entering the facility | 0% | D15-Storage pending any of the operations numbered D1 to D14 |
| | 20 03 07 | 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS | Bulky waste coming from skips | 2665.02 | 2293.34 | 16% | Mulleadys started managing Civic Amenity for West,meath County council therefore increased amount of bulky waste coming in. | 0% | D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12 |
| | 15 01 01 | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Cardboard | 887.77 | 554.02 | 60% | Increased amount of cardboard coming in from our Mullingar facility and Clonmore Civic Amenity Facility. | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 15 01 02 | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Plastic packaging from municipal sources | 326 | 269.36 | 21% | Increased amount of sorted packaging from commercial customers. | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 15 01 04 | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Metal Packaging_ Al Cans | 496.58 | 1201.16 | -59% | Amount of Al cans depends on Wilton waste demand for rebaling of Al cans. Demand in 2017 was less then in 2016. Contract for rebaling finished in Imid 2017. | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 15 01 07 | 15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED | Glass packaging (bottle banks, municipal collection, Civic Amenity). | 212.91 | 985.73 | -78% | Mulleadys contact with Glassdan for collecting Glass banks in County Roscommon finished in Sept 2016.No bottle ban collection in 2017. | 100% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 16 01 03 | 16- WASTES NOT OTHERWISE SPECIFIED IN THE LIST | Car and tractor tyres | 91.28 | 33.92 | 169% | Repak Eit Tyre Scheme started in Oct 2017. Mulleady's collecting tyres from retailers. | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 17 09 04 | 17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) | Mixed C&D waste coming from construction sites | 22.36 | 56.86 | -61% | Limited acceptance due to a limited capacity at the Facility for C&D. | 0% | R13-Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage) |
| | 10 01 01 | 10- WASTES FROM THERMAL PROCESSES | Gravel type bottom ash coming from industrial sources | 972.36 | 875 | 11% | Increase in Bottom Ash taken from Masonite Ireland. | 0% | D15-Storage pending any of the operations numbered D1 to D14 |

WASTE SUMMARY Lic No: W0169-01 Year 2017

Table 4 Environmental monitoring-landfill only [Landfill Manual-Monitoring Standards](#)

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

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

Table 5 Capping-Landfill only

| | | | | | | |
|----------------|-------------------------|---|-------------------|---|------------------------------------|----------|
| Area uncapped* | Area with temporary cap | Area with final cap to LD Standard m2 ha, a | Area capped other | Area with waste that should be permanently capped to date under licence | What materials are used in the cap | Comments |
| SELECT UNIT | SELECT UNIT | | | | | |

*please note this includes daily cover area

Table 6 Leachate-Landfill only

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

SELECT

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

SELECT

| | | | | | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|--|----------------------------|------------------------------------|----------|
| Volume of leachate in reporting year(m3) | Leachate (BOD) mass load (kg/annum) | Leachate (COD) mass load (kg/annum) | Leachate (NH4) mass load (kg/annum) | Leachate (Chloride) mass load kg/annum | Leachate treatment on-site | Specify type of leachate treatment | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|--|----------------------------|------------------------------------|----------|

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

Table 7 Landfill Gas-Landfill only

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

SELECT

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

| | |
|-----------------------|------|
| REFERENCE YEAR | 2017 |
|-----------------------|------|

1. FACILITY IDENTIFICATION

| | |
|----------------------------|-------------------------------|
| Parent Company Name | Mulleady's Limited |
| Facility Name | Mulleady's Limited (Drumlish) |
| PRTR Identification Number | W0169 |
| Licence Number | W0169-01 |

Classes of Activity

| No. | class_name |
|-----|--------------------------------------|
| - | Refer to PRTR class activities below |

| | |
|---|---|
| Address 1 | Cloonagh |
| Address 2 | Drumlish |
| Address 3 | |
| Address 4 | |
| | Longford |
| Country | Ireland |
| Coordinates of Location | -7.783576413 53.8062771 |
| River Basin District | IEGBNISH |
| NACE Code | 3821 |
| Main Economic Activity | Treatment and disposal of non-hazardous waste |
| AER Returns Contact Name | Ludmila Gabrisova |
| AER Returns Contact Email Address | Lu.gabrisova@gmail.com |
| AER Returns Contact Position | Environmental Manager |
| AER Returns Contact Telephone Number | 043 3324128 |
| AER Returns Contact Mobile Phone Number | NA |
| AER Returns Contact Fax Number | NA |
| Production Volume | 0.0 |
| Production Volume Units | Tonnes |
| Number of Installations | 0 |
| Number of Operating Hours in Year | 0 |
| Number of Employees | 0 |
| User Feedback/Comments | |
| Web Address | www.mulleadys.com |

2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name |
|-----------------|---|
| 5(c) | Installations for the disposal of non-hazardous waste |
| 5(c) | Installations for the disposal of non-hazardous waste |
| 50.1 | General |

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

| | |
|--|----|
| Is it applicable? | No |
| Have you been granted an exemption? | No |
| 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 on-site treatment (either recovery or disposal activities)? | Yes |
|---|-----|

This question is only applicable if you are an IPPC or Quarry site

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169_2017.xls | Return

21/03/2018 16:27

SECTION A : PRTR POLLUTANTS

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | Please enter all quantities in this section in KGs | | | |
|--|------------------|--------|-------------|---|--|-------------------|------------------------|----------------------|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| No. Annex II | Name | M/C/E | Method Code | Method Used Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| 13 | Total phosphorus | C | OTH | Calculated from test results for Ortho Phosphates as PO4 (3 set of results for 2017 reporting period) and from volume of waste water collected in 2017. | 0.138 | 0.138 | 0.0 | 0.0 |
| 12 | Total nitrogen | C | OTH | Calculated from test results for Ammoniacal Nitrogen (4 set of results for 2017 reporting period) and from volume of waste water collected in 2017. | 2.058 | 2.058 | 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)

| OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER | | | | | Please enter all quantities in this section in KGs | | | |
|--|------|--------|-------------|---|--|-------------------|------------------------|----------------------|
| POLLUTANT | | METHOD | | | QUANTITY | | | |
| Pollutant No. | Name | M/C/E | Method Code | Method Used 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

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169_2017.xls | Return Year : 2017 |

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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 only concerns Releases from your facility

| POLLUTANT | | RELEASURES TO WATERS | | | Please enter all quantities in this section in KGs | | | | |
|--------------|-----------------------|----------------------|-------------|--|--|-------------------|------------------------|----------------------|-----|
| No. Annex II | Name | M/C/E | Method Code | Method Used Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year | |
| 12 | Total nitrogen | C | OTH | Calculated from test results for Amoniactal Nitrogen (4 test results for 2017 reporting period), annual rainfall data for Mullingar station and facility operating area. | | 45.724 | 45.724 | 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

| POLLUTANT | | RELEASURES TO WATERS | | | Please enter all quantities in this section in KGs | | | | |
|--------------|------|----------------------|-------------|---|--|-------------------|------------------------|----------------------|-----|
| No. Annex II | Name | M/C/E | Method Code | Method Used 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)

| POLLUTANT | | RELEASURES TO WATERS | | | Please enter all quantities in this section in KGs | | | | |
|---------------|------|----------------------|-------------|---|--|-------------------|------------------------|----------------------|-----|
| Pollutant No. | Name | M/C/E | Method Code | Method Used 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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0169 | Facility Name : Mulleady's Limited (Drumlish) | Filename : W0169_2017.xls | Return Year : 2017 |

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Please enter all quantities on this sheet in Tonnes

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| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | Method Used | | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recoverer/Disposer | Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recoverer/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) |
|----------------------|---------------------|-----------|----------------------------|--|---------------------------|-------------|-------------|-----------------------|--|--|--|--|
| | | | | | | M/C/E | Method Used | | | | | |
| To Other Countries | 02 01 04 | No | 22.2 | waste plastics (except packaging) | R3 | M | Weighed | Abroad | Agnail Ltd,IRE/AG/117/12 | Unit 9 Rosfield,50 Rosemount Business Park,Ballycoolin,Dublin 11,Ireland | | |
| Within the Country | 08 01 14 | No | 163.4 | sludges from paint or varnish other than those mentioned in 08 01 13 | D5 | M | Weighed | Offsite in Ireland | Drehid Waste Management Facility Bord Na Mona,W201-02 | Killinagh Upper,Carbury,..Co. Kildare,Ireland | | |
| Within the Country | 08 01 14 | No | 27.18 | sludges from paint or varnish other than those mentioned in 08 01 13 | D5 | M | Weighed | Offsite in Ireland | Knockharley Landfill Limited,W146-02 | Knockharley,..Navan,..Ireland | | |
| Within the Country | 20 02 01 | No | 56.8 | biodegradable waste | R3 | M | Weighed | Offsite in Ireland | Michael Dolan,WFP--WM-2010-0005-01 | Johnstown,Slanemore,..Mullingar,Ireland | | |
| Within the Country | 10 01 01 | No | 968.02 | bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04) | D5 | M | Weighed | Offsite in Ireland | Drehid Waste Management Facility Bord Na Mona,W201-02 | Killinagh Upper,Carbury,..Co. Kildare,Ireland | | |
| Within the Country | 15 01 01 | No | 205.4 | paper and cardboard packaging | R3 | M | Weighed | Offsite in Ireland | Leinster Environmental,IRE/AG296/15 | Clermont Business Park,Haggarstown,Dundalk,A91 HP,Ireland | | |
| To Other Countries | 15 01 01 | No | 1806.69 | paper and cardboard packaging | R3 | M | Weighed | Abroad | Peute Papier Recycling,IRE/G006/12 | Baanhoekweg 4,3313 LA,Dortrecht,A528041436,Netherlands | | |
| To Other Countries | 15 01 01 | No | 1972.78 | paper and cardboard packaging | R3 | M | Weighed | Abroad | Agnail Ltd,IRE/AG/117/12 | Unit 9 Rosfield,50 Rosemount Business Park,Ballycoolin,Dublin 11,Ireland | | |
| To Other Countries | 15 01 01 | No | 182.72 | paper and cardboard packaging | R3 | M | Weighed | Abroad | Boost Recycling Ltd,IRE/G082/19 | 47 Swaffham Road,Burwell,Cambridge,CB250AN,United Kingdom | | |
| To Other Countries | 15 01 04 | No | 115.72 | metallic packaging | R4 | M | Weighed | Abroad | Green Dragon Recycling Ltd,IRE/G074/15 | North,Glanmire,Cork,..Ireland | | |
| To Other Countries | 15 01 04 | No | 339.22 | metallic packaging | R4 | M | Weighed | Abroad | Wilton Waste Recycling,IRE/AG142/17 | ..Ballyjamesduff,..Co. Cavan,Ireland | | |
| To Other Countries | 15 01 04 | No | 405.12 | metallic packaging | R4 | M | Weighed | Abroad | UN Global Trading Ltd.,IRE/AG206/16 | Lakeside House,1 Furzeground Way,Stockley Park,Uxbridge UB11 1BD,United Kingdom | | |
| To Other Countries | 16 01 03 | No | 271.08 | end-of-life tyres | R5 | M | Weighed | Abroad | John Sloan Tyre Shred Export,IRE/AG312/18 | 33 Manydown Close,..Dundalk,Co. Louth,Ireland | | |
| Within the Country | 16 06 01 | Yes | 1.76 | lead batteries | R4 | M | Weighed | Offsite in Ireland | Wilton Waste Recycling,Waste Permit:06/30 | Ballyjamesduff,..Co. Cavan,Ireland | Wilton Waste,wfp-cn-10-0005-01,Kiffagh,Crosserlough,Ballyjamesduff,Co. Cavan,Ireland | Kiffagh,Crosserlough,Ballyjamesduff,Co. Cavan,Ireland |
| Within the Country | 16 06 04 | No | 1.2 | alkaline batteries (except 16 06 03) | R4 | M | Weighed | Offsite in Ireland | KMK Metals Recycling Ltd,W0113-03 | Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offally,Ireland | | |
| Within the Country | 17 04 11 | No | 8.9 | cables other than those mentioned in 17 04 10 | R4 | M | Weighed | Offsite in Ireland | Wilton Waste Recycling,Waste Permit:06/30 | Ballyjamesduff,..Co. Cavan,Ireland | | |
| Within the Country | 19 12 12 | No | 1384.67 | other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 | R1 | M | Weighed | Offsite in Ireland | Wilton Waste Recycling,Waste Permit:06/30 | Ballyjamesduff,..Co. Cavan,Ireland | | |
| Within the Country | 19 12 12 | No | 9899.02 | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 | D10 | M | Weighed | Offsite in Ireland | Indaver Ireland,W0167-02 | Carranstown,Duleek,..CoMeath,Ireland | | |

| | | | | | | | | | | | | |
|--------------------|----------|-----|---------|---|-----|---|---------|--------------------|--|--|--|--|
| Within the Country | 19 12 12 | No | 6933.68 | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | R3 | M | Weighed | Offsite in Ireland | Enrich Environmental Ltd,08/0004/01 | Marymount,Castleknock Rd,Castleknock,Dublin 15,Ireland | | |
| Within the Country | 19 12 12 | No | 162.86 | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | D5 | M | Weighed | Offsite in Ireland | Drehid Waste Management Facility Bord Na Mona,W201-02 | Killinagh Upper,Carbury,...Co. Kildare,Ireland | | |
| Within the Country | 19 12 12 | No | 504.27 | 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 | R3 | M | Weighed | Offsite in Ireland | Drehid Waste Management Facility Bord Na Mona,W201-02 | Killinagh Upper,Carbury,...Co. Kildare,Ireland | | |
| Within the Country | 20 01 08 | No | 556.9 | biodegradable kitchen and canteen waste | R3 | M | Weighed | Offsite in Ireland | Michael Dolan,WFP--WM-2010-0005-01 | Johnstown,Slanemore,...Mullingar,Ireland | | |
| Within the Country | 20 01 11 | No | 4.0 | textiles | R12 | M | Weighed | Offsite in Ireland | Textile Recycling Ltd,WPR-014 | Glen Abbey Complex,Belgrad Road,Tallagh,Dublin 24,Ireland | | |
| Within the Country | 20 01 21 | Yes | 0.82 | fluorescent tubes and other mercury-containing waste | R4 | M | Weighed | Offsite in Ireland | KMK Metals Recycling Ltd,W0113-03 | Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland | KMK Metals Recycling Ltd,W0113-03,Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland | Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland |
| Within the Country | 20 01 36 | No | 149.46 | discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35 | R4 | M | Weighed | Offsite in Ireland | KMK Metals Recycling Ltd,EPA Waste Licence: W0113-03 | Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland | | |
| Within the Country | 20 01 38 | No | 519.58 | wood other than that mentioned in 20 01 37 | R13 | M | Weighed | Offsite in Ireland | OCR Waste Management Ltd,WFP-RN-10-0001-01 | Office 2 Roxborough,...Co. Roscommon,Ireland | | |
| Within the Country | 20 01 39 | No | 224.74 | plastics | R3 | M | Weighed | Offsite in Ireland | Condron Concrete Works,WFP-OY-15-0198-01 | Road,...Tullamore,Co. Offaly,Ireland | | |
| To Other Countries | 20 01 39 | No | 47.12 | plastics | R3 | M | Weighed | Abroad | Roydon Polythene (Exports) Ltd,IRE/G481/19 | Swinton,M27 8LU,United Kingdom | | |
| To Other Countries | 20 01 39 | No | 101.74 | plastics | R3 | M | Weighed | Abroad | Boost Recycling Ltd,IRE/G082/12 | Road,Burwell,Cambridge,CB250AN,United Kingdom | | |
| To Other Countries | 20 01 39 | No | 741.66 | plastics | R3 | M | Weighed | Abroad | WRC Recycling Total Waste Solution,WRC Recycling Floor | St. Johnstone ...Renfrewshire,...United Kingdom | | |
| To Other Countries | 20 01 39 | No | 105.9 | plastics | R3 | M | Weighed | Abroad | Clean Tech UK Ltd,IRE/G469/18 | Hemswell Business Park,Hemswell ,Lincolnshire,DN21 5TU,United Kingdom | | |
| To Other Countries | 20 01 39 | No | 103.98 | plastics | R3 | M | Weighed | Abroad | Vanden Recycling Ltd,IRE/G274/18 | Blaris Industrial Estate,Altona Road,Lisburn,BT27 5QB,United Kingdom | | |
| To Other Countries | 20 01 39 | No | 22.0 | plastics | R3 | M | Weighed | Abroad | Delta Waste Management Ltd,IRE/G482/19 | Top,Loxley,Warwickshire,CV35 9JU,United Kingdom | | |
| To Other Countries | 20 01 39 | No | 110.78 | plastics | R3 | M | Weighed | Abroad | NI Plastics,IRE/G471/19 | 92 Cloughwater Road,...Ballymena,BT43 6SZ,United Kingdom | | |
| To Other Countries | 20 01 39 | No | 196.34 | plastics | R3 | M | Weighed | Abroad | Leinster Environmentals Limited,IRE/AG296/15 | Clermont Park,Haggartown,Dundalk, Co. Louth,Ireland | | |
| To Other Countries | 20 01 39 | No | 77.42 | plastics | R3 | M | Weighed | Abroad | Lets Recycle It Ltd,IRE/AG328/18 | 85 New Road,Silverbridge,Newry,BT35 9LR,United Kingdom | | |
| Within the Country | 20 01 40 | No | 474.02 | metals | R4 | M | Weighed | Offsite in Ireland | Wilton Waste Recycling,Waste Permit:06/30 | Ballyjamesduff,...Co. Cavan,Ireland | | |
| Within the Country | 20 03 01 | No | 2929.52 | mixed municipal waste | D10 | M | Weighed | Offsite in Ireland | Indaver Ireland,W0167-02 | Carranstown,Duleek,...CoMeath,Ireland | | |
| Within the Country | 20 01 40 | No | 9.18 | metals | R4 | M | Weighed | Offsite in Ireland | United Metals,WFP/L/2016/147A/R 2 | Eastway Business Park,Ballysimon,Limerick,Co. Limerick,Ireland | | |
| Within the Country | 16 01 06 | No | 26.34 | end-of-life vehicles, containing neither liquids nor other hazardous components | R4 | M | Weighed | Offsite in Ireland | Wilton Waste Recycling,Waste Permit:06/30 | Ballyjamesduff,...Co. Cavan,Ireland | | |

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| Within the Country | 20 01 39 | No | 243.72 plastics | R1 | M | Weighed | Offsite in Ireland | Pacon Waste and Recycling Ltd,WFP-FG-14-0001-01 | Unit 4F Fingal Bay Business Park,,Balbrigan,Co. Dublin,Ireland |
| Within the Country | 15 01 07 | No | 285.34 glass packaging | R5 | M | Weighed | Offsite in Ireland | Rehab Glassco Recycling Ltd.,W0279-02 | Site 4 Oberstown Business Park,,Naas,,Ireland |
| Within the Country | 20 02 01 | No | 2.74 biodegradable waste soil and stones other than those mentioned | R3 | M | Weighed | Offsite in Ireland | Flamers Ltd of Sonna,WFP-WH-2014-003 | Sonna,Slanebeg,Mullingar,Co. Westmeath,Ireland |
| Within the Country | 17 05 04 | No | 379.96 in 17 05 03 | R10 | M | Weighed | Offsite in Ireland | Blessington Stone,WFP-LD-16-0001-01 | Rhine,,Kilroe,Co. Longford,Ireland |
| Within the Country | 13 02 08 | Yes | 1.52 other engine, gear and lubricating oils | R9 | M | Weighed | Offsite in Ireland | Rilta Environmental,W0192-03 | Block 402 Grants Drive,Greenogue Business Park,Rathcoole,Co Dublin,Ireland |
| Within the Country | 20 01 27 | Yes | 2.02 paint, inks, adhesives and resins containing dangerous substances | R2 | M | Weighed | Offsite in Ireland | Soltec (Ireland) Ltd,W0115-01 | Zone A Mullingar Business Park,,Mullingar,Co. Westmeath,Ireland |
| | | | | | | | | | Rilta Environmental,W0192-03,Block 402 Grants Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland |
| | | | | | | | | | Soltec (Ireland) Ltd,W0115-01,Zone A,Mullingar Business Park,Mullingar,Co. Westmeath,Ireland |
| | | | | | | | | | Block 402 Grants Drive,Greenogue Business Park,Rathcoole,Co. Dublin,Ireland |
| | | | | | | | | | Zone A,Mullingar Business Park,Mullingar,Co. Westmeath,Ireland |

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

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[Link to previous years waste summary data & percentage change](#)

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