| | |
|---|---|
| SELECT | cells that are highlighted blue cont |
| guidance document link | cells that contain underlined text c |
| Table heading * | table headings followed by a symb |
| Cells with red indicator in top right corner | cells that have a red indicator in th |

:ain a dropdown menu click to select one option from the list

:lick to access relevant guidance documents for this section

ol have an associated footnote or instructions

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

| Facility Information Summary | |
|---|---|
| AER Reporting Year | 2016 |
| Licence Register Number | W0002-01 |
| Name of site | Ballyguyroe Landfill |
| Site Location | Ballyguyroe North,Kildorrey Mallow Co.Cork |
| NACE Code | |
| Class/Classes of Activity | |
| National Grid Reference (6E, 6 N) | |

| | |
|---|---|
| A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year **and an overview of compliance with your licence** listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise. | The landfill facility at Ballyguyroe North has been in operation since 1990, accepting waste at an annual rate of approx 20,000 tonnes . The site reached full capacity and cloased for the acceptance of waste on Thursday 27th September 2001. Cork County Council held a waste licence (Register No. 2-1) to operate Ballyguyroe landfill site until March 15th 2004, when it obtained a new licence ( register No 2-2/W 002-02).Inaccordance with therequirments of Condition 11.3 of the waste licence, an AER for the facility is submitted to the agency annually in March. Ballyguyroe landfill site occupies approx 15 hectares and is located 6km north-west of the village of Kildorrey. The site lies inthe Blackwater catchment with the Farahy River flowing southwards within the valey outside the eastern boundary. Surface water from the site drains in to this river. The ground water quality in this area is indicative of the overburben geology, being high in manganese. In 2015 Cork County Council carried out a review of Ballyguyroe license, with the aim of reducing environmental monitoirng. This review was approved by the EPA in 2015 (See submission LRO18556). Environmental monitoring is as follows ; Surface water and ground water sampling reduced to twice yearly, perimeter landfill gas monitoring reduced to quarterly, landfill cell gas monitoirng reduced to quarterly, meteorological recording reduced to monthly and reporting reduced to twice yearly. AER and annual sampling parameters are unchanged. |

**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.

| | | |
|---|---|---|
| _____ | | _____ |
| Signature<br>Group/Facility manager<br>(or nominated, suitably qualified and experienced deputy) | Marie Mortell | Date<br>21/3/2017 |

| AIR-summary template | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

**Answer all questions and complete all tables where relevant**

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

## Periodic/Non-Continuous Monitoring

| | | | | |
|---|---|---|---|---|
| 2 | Are there any results in breach of licence requirements? If yes please provide brief details in the comment section of TableA1 below | | SELECT | |
| 3 | Was all monitoring carried out in accordance with EPA guidance note AG2 and using the basic air monitoring checklist? | Basic air monitoring checklist | SELECT | |

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

| Emission reference no: | Parameter/ Substance | Frequency of Monitoring | ELV in licence or any revision therof | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence limit | Method of analysis | Annual mass load (kg) | Comments - reason for change in % mass load from previous year if applicable |
|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | | | SELECT | | SELECT | SELECT | SELECT | | |
| | SELECT | | | SELECT | | SELECT | SELECT | SELECT | | |
| | SELECT | | | SELECT | | SELECT | SELECT | SELECT | | |
| | SELECT | | | SELECT | | SELECT | SELECT | SELECT | | |

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

| AIR-summary template | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

## Continuous Monitoring

| | | | |
|---|---|---|---|
| 4 | Does your site carry out continuous air emissions monitoring? | SELECT | |
| | If yes please review your continuous monitoring data and report the required fields below in Table 3 and compare it to its relevant Emission Limit Value (ELV) | | |
| 5 | Did continuous monitoring equipment experience downtime? If yes please record downtime in table 3 below | SELECT | |
| 6 | Do you have a proactive service agreement for each piece of continuous monitoring equipment? | SELECT | |
| 7 | Did your site experience any abatement system bypasses? If yes please detail them in table 4 below | SELECT | |

**Table A2: Summary of average emissions -continuous monitoring**

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

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

**Table A3: Abatement system bypass reporting table** Bypass protocol

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

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

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

| AIR-summary template | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

## Solvent use and management on site

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

**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 | Total VOC emissions as %of solvent | Total Emission Limit Value (ELV) in licence or any revision therof | Compliance |
|---|---|---|---|---|---|
| | | | | | SELECT |
| | | | | | SELECT |

**Table A5: Solvent Mass Balance summary**

| | (I) Inputs (kg) | (O) Outputs (kg) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Solvent | (I) Inputs (kg) | Organic solvent emission in | 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 | |

| Frns summary template-WATER/WASTEWATER(SEWER) | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

| | | | Additional information |
|---|---|---|---|
| 1 | Does your site have licensed emissions direct to surface water or direct to sewer? If yes please complete table W2 and W3 below for the current reporting year and answer further questions. If **you do not have** licenced emissions you only need to complete table W1 and or W2 for surface water analysis and visual inspections | no | |
| 2 | Was it a requirement of your licence to carry out visual inspections on any surface water discharges or watercourses on or near your site? If yes please complete table W2 below summarising only any evidence of contamination noted during visual inspections | no | |

**Table W1 Surface water monitoring**

| Location reference | Location relative to site activities | PRTR Parameter | Licenced Parameter | Monitoring date | ELV or trigger level in licence or any revision thereof* | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| SS2 | downstream | | pH | Quarterly | No ELV or trigger levels | N/A | 7.2 | pH units | yes | Median Vaulue for 2016 |
| SS2 | downstream | | Temperature | Quarterly | No ELV or trigger levels | N/A | 10.69 | degrees C | yes | Median Vaulue for 2016 |
| SS2 | downstream | | Conductivity | Quarterly | No ELV or trigger levels | N/A | 105.31 | µS/cm@25oC | yes | Median Vaulue for 2016 |
| SS2 | downstream | | Dissolved Oxygen | Quarterly | No ELV or trigger levels | N/A | 11.05 | mg/L | yes | Median Vaulue for 2016 |
| SS2 | downstream | Chlorides (as Cl) | | Quarterly | No ELV or trigger levels | N/A | 13.85 | mg/L | yes | Median Vaulue for 2016 |
| SS2 | downstream | | BOD | Quarterly | No ELV or trigger levels | N/A | 0.83 | mg/L | yes | Median Vaulue for 2016 |
| SS2 | downstream | | COD | Quarterly | No ELV or trigger levels | N/A | 25.25 | mg/L | yes | Median Vaulue for 2016 |
| SS2 | downstream | | Ammonia (as N) | Quarterly | No ELV or trigger levels | N/A | 0.02 | mg/L | yes | Median Vaulue for 2016 |
| SS2 | downstream | | Suspended Solids | Quarterly | No ELV or trigger levels | N/A | 2 | mg/L | yes | Median Vaulue for 2016 |
| SS2 | downstream | Chromium and compounds (as Cr) | | Annual | N | | 1.3 | µg/L | y | Annual results 2016 |
| SS2 | downstream | Copper and compounds (as Cu) | | Annual | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result |
| SS2 | downstream | Cadmium and compounds (as Cd) | | Annual | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result |
| SS2 | downstream | | Iron | Annual | No ELV or trigger levels | N/A | 722 | µg/L | yes | Annual result |
| SS2 | downstream | Lead and compounds (as Pb) | | Annual | No ELV or trigger levels | N/A | 2.2 | µg/L | yes | Annual result |
| SS2 | downstream | | Magnesium | Annual | No ELV or trigger levels | N/A | 1.91 | µg/L | yes | Annual result |
| SS2 | downstream | | Manganese (as Mn) | Annual | No ELV or trigger levels | N/A | 28.4 | µg/L | yes | Annual result |
| SS2 | downstream | Mercury and compounds (as Hg) | | Annual | No ELV or trigger levels | N/A | <0.5 | µg/L | yes | Annual result |
| SS2 | downstream | | Potassium | Annual | No ELV or trigger levels | N/A | <1 | mg/L | yes | Annual result |
| SS2 | downstream | | Sulphate | Annual | | | <0.5 | mg/L | yes | Annual result |
| SS2 | downstream | | Total Oxidised Nitrogen (TON) | Annual | No ELV or trigger levels | N/A | 0.23 | mg/L | yes | Annual result |
| SS2 | downstream | Zinc and compounds (as Zn) | | Annual | No ELV or trigger levels | N/A | 114 | µg/L | yes | Annual result |
| SS2 | downstream | Total phosphorus | | Annual | No ELV or trigger levels | N/A | 0.04 | mg/L | yes | Annual result |
| SS5 | downstream | | pH | Quarterly | No ELV or trigger levels | N/A | 7.9 | pH units | yes | Annual result for 2016 |
| SS5 | downstream | | Temperature | Quarterly | No ELV or trigger levels | N/A | 11.32 | degrees C | yes | Median Vaulue for 2016 |
| SS5 | downstream | | Conductivity | Quarterly | No ELV or trigger levels | N/A | 258 | µS/cm@25oC | yes | Median Vaulue for 2016 |
| SS5 | downstream | | Dissolved Oxygen | Quarterly | No ELV or trigger levels | N/A | 10.75 | mg/L | yes | Median Vaulue for 2016 |
| SS5 | downstream | Chlorides (as Cl) | | Quarterly | No ELV or trigger levels | N/A | 11.05 | mg/L | yes | Median Vaulue for 2016 |
| SS5 | downstream | | BOD | Quarterly | No ELV or trigger levels | N/A | 0.5 | mg/L | yes | Median Vaulue for 2016 |
| SS5 | downstream | | COD | Quarterly | No ELV or trigger levels | N/A | 29 | mg/L | yes | Median Vaulue for 2016 |
| SS5 | downstream | | Ammonia (as N) | Quarterly | No ELV or trigger levels | N/A | 0.05 | mg/L | yes | Median Vaulue for 2016 |
| SS5 | downstream | | Suspended Solids | Quarterly | No ELV or trigger levels | N/A | 2 | mg/L | yes | Median Vaulue for 2016 |
| SS5 | downstream | Chromium and compounds (as Cr) | | Annual | | | <1 | µg/L | yes | |
| SS5 | downstream | Copper and compounds (as Cu) | | Annual | No ELV or trigger levels | N/A | 1.9 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | Cadmium and compounds (as Cd) | | Annual | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | | Iron | Annual | No ELV or trigger levels | N/A | 258 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | Lead and compounds (as Pb) | | Annual | No ELV or trigger levels | N/A | 2.9 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | | Magnesium | Annual | No ELV or trigger levels | N/A | 2.92 | µg/L | yes | Annual result for 2016 |

| rns summary template-WATER/WASTEWATER(SEWER) | | | | | | Lic No: | W0002-01 | | Year | 2016 |
|---|---|---|---|---|---|---|---|---|---|---|
| SS5 | downstream | | Manganese (as Mn) | Annual | No ELV or trigger levels | N/A | 19.1 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | Mercury and compounds (as Hg) | | Annual | No ELV or trigger levels | N/A | <0.5 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | | Potassium | Annual | No ELV or trigger levels | N/A | 1.4 | mg/L | yes | Annual result for 2016 |
| SS5 | downstream | | Sulphate | Annual | No ELV or trigger levels | N/A | 0.91 | mg/L | yes | Annual result for 2016 |
| SS5 | downstream | | Total Oxidised Nitrogen (TON) | Annual | No ELV or trigger levels | N/A | <0.2 | mg/L | yes | Annual result for 2016 |
| SS5 | downstream | Zinc and compounds (as Zn) | | Annual | No ELV or trigger levels | N/A | 43.1 | µg/L | yes | Annual result for 2016 |
| SS5 | downstream | Total phosphorus | | annual | No ELV or trigger levels | N/A | <0.04 | mg/L | yes | Annual result for 2016 |
| RS1 | downstream | | pH | | No ELV or trigger levels | N/A | 7.2 | pH units | yes | Median vaule for 2016 |
| RS1 | downstream | | Temperature | | No ELV or trigger levels | N/A | 11.67 | degrees C | yes | Median vaule for 2016 |
| RS1 | downstream | | Conductivity | | No ELV or trigger levels | N/A | 105.6 | µS/cm@25oC | yes | Median vaule for 2016 |
| RS1 | downstream | | Dissolved Oxygen | mg/l | No ELV or trigger levels | N/A | 10.73 | mg/L | yes | Median vaule for 2016 |
| RS1 | downstream | Chlorides (as Cl) | | mg/l | No ELV or trigger levels | N/A | 13.9 | mg/L | yes | Median vaule for 2016. Tidal infulence |
| RS1 | downstream | | BOD | mg/l | No ELV or trigger levels | N/A | 0.8 | mg/L | yes | Median vaule for 2016 |
| RS1 | downstream | | COD | mg/l | No ELV or trigger levels | N/A | 26.50 | mg/L | yes | Median vaule for 2016 |
| RS1 | downstream | | Ammonia (as N) | mg/l | No ELV or trigger levels | N/A | 0.02 | mg/L | yes | Median vaule for 2016 |
| RS1 | downstream | | Suspended Solids | mg/l | No ELV or trigger levels | N/A | 1 | mg/L | yes | Median vaule for 2016 |
| RS1 | downstream | Chromium and compounds (as Cr) | | ug/l | No ELV or trigger levels | N/A | 4.9 | µg/L | yes | annual result |
| RS1 | downstream | Copper and compounds (as Cu) | | ug/l | No ELV or trigger levels | N/A | <1 | µg/L | yes | Median vaule for 2016 |
| RS1 | downstream | Cadmium and compounds (as Cd) | | ug/l | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result for 2016 |
| RS1 | downstream | | Iron | ug/l | No ELV or trigger levels | N/A | 341 | µg/L | yes | Annual result for 2016 |
| RS1 | downstream | Lead and compounds (as Pb) | | ug/l | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result for 2016 |
| RS1 | downstream | | Magnesium | mg/l | No ELV or trigger levels | N/A | 1.9 | µg/L | yes | Annual result for 2016 |
| RS1 | downstream | | Manganese (as Mn) | ug/l | No ELV or trigger levels | N/A | 14.8 | µg/L | yes | Annual result for 2016.EQS limit is |
| RS1 | downstream | Mercury and compounds (as Hg) | | ug/l | No ELV or trigger levels | N/A | <0.5 | µg/L | yes | Annual result for 2016. |
| RS1 | downstream | | Potassium | mg/l | No ELV or trigger levels | N/A | <1 | mg/L | yes | Annual result for 2016 |
| RS1 | downstream | | Sulphate | mg/l | | | <0.5 | mg/L | yes | Annual result for 2016. |
| RS1 | downstream | | Total Oxidised Nitrogen (TON) | mg/l | No ELV or trigger levels | N/A | 0.22 | mg/L | yes | Annual result for 2016 |
| RS1 | downstream | Zinc and compounds (as Zn) | | ug/l | No ELV or trigger levels | N/A | <25 | µg/L | yes | Annual result for 2016 |
| RS1 | downstream | Total phosphorus | | mg/k | No ELV or trigger levels | N/A | <0.04 | mg/L | yes | Annual result for 2016 |
| RS2 | upstream | | pH | Quarterly | No ELV or trigger levels | N/A | 7.3 | pH units | yes | Median vaule for 2016 |
| RS2 | upstream | | Temperature | Quarterly | No ELV or trigger levels | N/A | 11.3 | degrees C | yes | Median vaule for 2016 |
| RS2 | upstream | | Conductivity | Quarterly | No ELV or trigger levels | N/A | 116 | µS/cm@25oC | yes | Median vaule for 2016 |
| RS2 | upstream | | Dissolved Oxygen | Quarterly | No ELV or trigger levels | N/A | 10.85 | mg/L | yes | Median vaule for 2016 |
| RS2 | upstream | Chlorides (as Cl) | | Quarterly | No ELV or trigger levels | N/A | 14.2 | mg/L | yes | Median vaule for 2016 |
| RS2 | upstream | | BOD | Quarterly | No ELV or trigger levels | N/A | 1.18 | mg/L | yes | Median vaule for 2016 |
| RS2 | upstream | | COD | Quarterly | No ELV or trigger levels | N/A | 21.25 | mg/L | yes | Median vaule for 2016. |
| RS2 | upstream | | Ammonia (as N) | Quarterly | No ELV or trigger levels | N/A | 0.01 | mg/L | yes | Median vaule for 2016 |
| RS2 | upstream | | Suspended Solids | Annual | | n/a | 1 | mg/L | yes | Annual results |
| RS2 | upstream | Chromium and compounds (as Cr) | | Annual | No ELV or trigger levels | N/A | 1.2 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | Copper and compounds (as Cu) | | Annual | No ELV or trigger levels | N/A | 2.6 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | Cadmium and compounds (as Cd) | | Annual | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | | Iron | Annual | No ELV or trigger levels | N/A | 726 | µg/L | yes | Annual result for 2016. |
| RS2 | upstream | Lead and compounds (as Pb) | | Annual | No ELV or trigger levels | N/A | <1 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | | Magnesium | Annual | No ELV or trigger levels | N/A | 1.89 | µg/L | yes | Annual result for 2016. |
| RS2 | upstream | | Manganese (as Mn) | Annual | No ELV or trigger levels | N/A | 28.9 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | Mercury and compounds (as Hg) | | Annual | No ELV or trigger levels | N/A | <0.5 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | | Potassium | Annual | No ELV or trigger levels | | <1 | mg/L | yes | Annual result for 2016 |
| RS2 | upstream | | Sulphate | Annual | No ELV or trigger levels | N/A | <0.5 | mg/L | yes | Annual result for 2016 |

| rns summary template-WATER/WASTEWATER(SEWER) | | | | | | Lic No: | W0002-01 | | Year | 2016 |
|---|---|---|---|---|---|---|---|---|---|---|
| RS2 | upstream | | Total Oxidised Nitrogen (TON) | Annual | No ELV or trigger levels | N/A | 0.22 | mg/L | yes | Annual result for 2016 |
| RS2 | upstream | Zinc and compounds (as Zn) | | Annual | No ELV or trigger levels | N/A | <25 | µg/L | yes | Annual result for 2016 |
| RS2 | upstream | Total phosphorus | | Annual | No ELV or trigger levels | N/A | 0.04 | mg/L | yes | Annual result for 2016 |

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

External /Internal Lab Quality checklist

Assessment of results checklist

**ıter and /or wastewater (sewer)-periodic monitoring (non-continuous)**

| Emission reference no: | Emission released to | Parameter/ SubstanceNote 1 | Type of sample | Frequency of monitoring | Averaging period | ELV or trigger values in licence or any revision thereof Note 2 | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence | Method of analysis | Procedural reference source | Procedural reference standard number | Annual mass load (kg) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | SELECT | SELECT | | SELECT | | SELECT | | SELECT | SELECT | SELECT | SELECT | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

ıric 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

| rns summary template-WATER/WASTEWATER(SEWER) | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

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

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

| | | | |
|---|---|---|---|
| 6 | Did continuous monitoring equipment experience downtime? **If yes please record downtime in table W4 below** | SELECT | |
| 7 | Do you have a proactive service contract for each piece of continuous monitoring equipment on site? | SELECT | |
| 8 | Did abatement system bypass occur during the reporting year? **If yes please complete table W5 below** | SELECT | |

**mary 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 | | | | | |
| | | | | | | | | | | | |

ric flow shall be included as a reportable parameter.

**5: 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 | |
| | | | | | | | |
| | | | | | | | |

en or proposed to reduce or limit bypass frequency

| **Bund/Pipeline testing template** | Lic No: | W0002-01 | Year | 2016 | |
|---|---|---|---|---|---|

Bund testing

dropdown menu click to see options

| | | | Additional information |
|---|---|---|---|
| 1 | Are you required by your licence to undertake integrity testing on bunds and containment structures ? if yes please fill out table B1 below listing all **new bunds and containment structures** on site, **in addition to all bunds which failed** the integrity test-**all bunding structures which failed including mobile bunds must be listed in the table below** | SELECT | n/a |
| 2 | Please provide integrity testing frequency period | SELECT | |
| 3 | Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds) | SELECT | |
| 4 | How many bunds are on site? | | |
| 5 | How many of these bunds have been tested witin the required test schedule? | | |
| 6 | How many mobile bunds are on site? | | |
| 7 | Are the mobile bunds included in the bund test schedule? | SELECT | |
| 8 | How many of these mobile bunds have been tested witin 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? | SELECT | |
| 12 | If yes to Q11 are these failsafe systems included in a maintenance and testing programme? | | |

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

| Bund/Containment structure ID | Type | Specify Other type | Product containment | Actual capacity | Capacity required* | Type of integrity test | Other test type | Test date | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | | | | | SELECT | | | SELECT | SELECT | | SELECT | | |
| | SELECT | | | | | SELECT | | | SELECT | SELECT | | SELECT | | |

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

| | | | Commentary |
|---|---|---|---|
| 14 | Has integrity testing been carried out in accordance with licence requirements and are all structures tested in line with BS8007/EPA Guidance? | bunding and storage guidelines | SELECT |
| 15 | Are channels/transfer systems to remote containment systems tested? | | SELECT |
| 16 | Are channels/transfer systems compliant in both integrity and available volume? | | SELECT |

Pipeline/underground structure testing

| | | | |
|---|---|---|---|
| 1 | Are you required by your licence to undertake integrity testing on underground structures e.g. pipelines or sumps etc ? if yes please fill out table 2 below listing all underground structures and pipelines on site **which failed the integrity test** | SELECT | |
| 2 | Please provide integrity testing frequency period | SELECT | |

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

| Structure ID | Type system | Material of construction: | Does this structure have Secondary containment? | Type of secondary containment | Type integrity testing | Integrity reports maintained on site? | Results of test | Integrity test failure explanation <50 words | Corrective action taken | Scheduled date for retest | Results of retest(if in current reporting year) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | SELECT | | | | SELECT |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

**oil monitoring template**

Lic No: W0002-01 Year 2016

| | | | |
|---|---|---|---|
| | | | Comments |
| 1 | Are you required to carry out groundwater monitoring as part of your licence requirements? | yes | |
| 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 | Is there contaminated land and /or groundwater on site? If yes please answer q's 5-12 | no | |
| 5 | Is the contamination related to operations at the facility (either current and/or historic) | SELECT | |
| 6 | Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site | SELECT | |
| 7 | Please specify the proposed time frame for the remediation strategy | SELECT | |
| 8 | Is there a licence condition to carry out/update ELRA for the site? | SELECT | |
| 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 | |

**roundwater monitoring results**

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration++ | Average Concentration+ | unit | GTV's* | SW EQS | Upward trend in pollutant concentration over last 5 years of monitoring data |
|---|---|---|---|---|---|---|---|---|---|---|
| **Quarterly** | **981s** | pH | **Meter** | **Quarterly** | 11.4 | 9.9 | SELECT | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 639 | 511 | | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 48.6 | 26.0 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 0.03 | 0.02 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | ISE | Quarterly | 0.06 | 0.06 | mg/l | 0.065-0.175 | | no |
| 22/8/2016 | | Iron | ICP | annual | <0.2 | <0.2 | ug/l | | 0.2 | no |
| 19/8/2016 | | TON | HACH | annual | 1.9 | 1.3 | ug/l | - | No abnormal change | no |
| quarterly | | TOC | TOC analyser | Quarterly | <1 | <1 | mg/l | | | no |
| 22/8/2016 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | 3.6 | 3.6 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | <0.01 | <0.01 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <1 | <1 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | 6.06 | 6.06 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 833 | 833 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | <0.5 | <0.5 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <1 | <1 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | 1 | 1 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | 2.18 | 2.18 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | 336 | 336 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 0.06 | 0.06 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | <0.01 | <0.01 | mg/l | 0.09 | | no |
| 22/8/2016 | | Naphthalene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 0.5 | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Acenaphthylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Chrysene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | 1 | no |
| 22/8/2016 | | Fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Fluorene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Pyrene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | 12 | no |
| 22/8/2016 | | Phenanthrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromodichloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromoform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloroform | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Vinyl Chloride | GC-MS | Annual | | | ug/l | | 2 | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloromonofluoromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | 0.03 | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | 0.1 | no |
| 22/8/2016 | | 1,1-dichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloropropene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 12 Dichloroehtane | GC-MS | Annual | <1 | <1 | ug/l | 2.25 | | no |
| 22/8/2016 | | 1,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1-trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 112 Trichloroethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,3-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Hexanone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromoethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene P&M | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Styrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Isopropylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,2,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Propylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3,5-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Tert Butyl Benzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trimethylbenzene | GC-MS | Annual | <1 | **<1** | ug/l | | | no |
| 22/8/2016 | | sec-butylbenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Pentachlorophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Tetrachloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobutadiene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,6-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dichlorophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dimethylphenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 2-Chlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,4-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,5-Trichlorophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,6-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chloronaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylnaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Nitrophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Bromophenyl Phenyl Ether | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 4-Chloro-3-methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 4-Chlorophenyl phenyl ether | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 4-Nitrophenol | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Acenaphthene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | 0.0075 | | no |
| 22/8/2016 | | Benzo(b)fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(g,h,i)perylene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Benzyl Butyl Phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethoxy)methane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroisopropyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-ethylhexyl)phthalate | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Dibenz(a,h)anthracene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibenzofuran | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diethylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | di-n-Butylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | 30 | no |
| 22/8/2016 | | Di-n-octylphthalate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Diphenylamine | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Hexachloroethane | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Indeno(1,2,3-c,d)pyrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Isophorone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Nitrobenzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | n-Nitrosodi-n-propylamine | GC-MS | Annual | | | ug/l | | 500 | no |
| 22/8/2016 | | Acetone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Tetrahydrofuran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Toluene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Xylene -o | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichlorodifluoromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Ethyl Chloride/Chloroethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Ethyl Ether/Diethyl Ether | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Iodomethane/Methyl Iodide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Disulphide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Allyl Chloride | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Chlormethyl Cyanide/Chloroacetonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Propanenitrile | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trans-1,2 Dichloroethene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | MtBE | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | 1 | no |
| 22/8/2016 | | cis-12 Dichloroethene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 2-Butanone | GC-MS | Annual | | | ug/l | | 10 | no |
| 22/8/2016 | | Methyl Acrylate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromochloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Methacrylonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1-Chlorobutane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Carbon Tetrachloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromomethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Methyl Methacrylate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,cis | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | MIBK/4 Methyl 2 Pentanone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3 Dichloropropene,trans | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Ethyl Methacrylate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromobenzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Trans 14 Dichloro 2 Butene, tran | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | P Isopropyltoluene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | N Butyl Benzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromo-3-chloropropane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichlorobenzene | GC-MS | Annual | <0.1 | <0.1 | ug/l | | | no |
| 22/8/2016 | | Mecoprop | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bentazone | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | |
| 22/8/2016 | | Simazine | GC-MS | Annual | <0.1 | <0.1 | ug/l | | | |
| Quarterly | **98 1D** | pH | **Meter** | **Quarterly** | 7.1 | 6.8 | SELECT | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 11.1 | 9.7 | | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 601 | 324 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 17.6 | 13.9 | mg/l | 24-187.5 | 250 | no |
| 22/8/2016 | | Ammoniacal Nitorgen | ISE | Quarterly | 0.04 | 0.02 | mg/l | 0.065-0.175 | | no |
| 19/8/2016 | | Iron | ICP | annual | 0.02 | 0.02 | ug/l | | 0.2 | no |
| quarterly | | TON | HACH | annual | 0.3 | 0.3 | ug/l | - | No abnormal change | no |
| 22/8/2016 | | TOC | TOC analyser | Quarterly | 1.43 | 0.73 | mg/l | | | no |
| 22/8/2016 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | <1 | <1 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | <1 | <1 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | <1 | <1 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 7.79 | 7.79 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | 22.6 | 22.6 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | <1 | <1 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | <1.0 | <1.0 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | 3.4 | 3.4 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 100 | 100 | mg/l | - | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | 0.09 | 0.09 | mg/l | 0.09 | | no |
| 22/8/2016 | | Naphthalene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 0.5 | no |
| 22/8/2016 | | Acenaphthylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Anthracene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Chrysene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 1 | no |
| 22/8/2016 | | Fluoranthene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Fluorene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Pyrene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | 12 | no |
| 22/8/2016 | | Phenanthrene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Bromodichloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromoform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloroform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Vinyl Chloride | GC-MS | Annual | <1 | <1 | ug/l | | 2 | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Trichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloromonofluoromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | 0.03 | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | 0.1 | no |
| 22/8/2016 | | 1,1-dichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloropropene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2 dichloroethane | GC-MS | Annual | <1 | <1 | ug/l | 2.25 | | no |
| 22/8/2016 | | 1,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1-trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 112 Trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichloropropane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 2-Hexanone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromoethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene P&M | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Styrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Isopropylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,2,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Propylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3,5-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Tert Butyl Benzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | sec-butylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Pentachlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Tetrachloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobutadiene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,6-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 2,4-Dichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dimethylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2-dichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,4-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,5-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,6-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chloronaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylnaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Nitrophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Bromophenyl Phenyl Ether | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 4-Chloro-3-methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 4-Chlorophenyl phenyl ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Nitrophenol | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Acenaphthene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | 0.0075 | | no |
| 22/8/2016 | | Benzo(b)fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(g,h,i)perylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzyl Butyl Phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethoxy)methane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroisopropyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-ethylhexyl)phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibenz(a,h)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Dibenzofuran | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diethylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | di-n-Butylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | 30 | no |
| 22/8/2016 | | Di-n-octylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diphenylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Hexachloroethane | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Indeno(1,2,3-c,d)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Isophorone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Nitrobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | n-Nitrosodi-n-propylamine | GC-MS | Annual | | | ug/l | | 500 | no |
| 22/8/2016 | | Acetone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Tetrahydrofuran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Toluene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Xylene -o | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichlorodifluoromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Ethyl Chloride/Chloroethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Ethyl Ether/Diethyl Ether | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Iodomethane/Methyl Iodide | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Carbon Disulphide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Allyl Chloride | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Chlormethyl Cyanide/Chloroacetonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Propanenitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Trans-1,2 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MtBE | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 2,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | 1 | no |
| 22/8/2016 | | cis-12 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Butanone | GC-MS | Annual | | | ug/l | | 10 | no |
| 22/8/2016 | | Methyl Acrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methacrylonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1-Chlorobutane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Tetrachloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,cis | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MIBK/4 Methyl 2 Pentanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,3 Dichloropropene,trans | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trans 14 Dichloro 2 Butene, tran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | P Isopropyltoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | N Butyl Benzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromo-3-chloropropane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichlorobenzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Mecoprop | GC-MS | Annual | <0.1 | <0.1 | ug/l | | | no |
| **annual** | | Bentazone | GC-MS | Annual | | | | | 9.5 | data not available |
| annual | | Simazine | GC-MS | Annual | <0.01 | <0.01 | | | 25 | data not available |

oncentration from all monitoring results produced during the reporting year

## Groundwater monitoring results

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration++ | Average Concentration+ | unit | GTV's* | SW EQS | Upward trend in yearly average pollutant concentration over last 5 years of monitoring data |
|---|---|---|---|---|---|---|---|---|---|---|
| Quarterly | **G18** | pH | | **Quarterly** | 6.6 | 6.45 | SELECT | | 9.5 | no |
| Quarterly | | Temp | | Quarterly | 12 | 10.61 | | | 25 | no |
| Quarterly | | Elec.Conductivity | | Quarterly | 287.06 | 259 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | | Quarterly | 19 | 16.2 | mg/l | 24-187.5 | 250 | no |
| 22/8/2016 | | Ammoniacal Nitorgen | | Quarterly | 1.44 | 1.045 | mg/l | 0.065-0.175 | | no |
| 19/8/2016 | | Iron | | annual | 57.24 | 57.24 | ug/l | | 0.2 | no |
| quarterly | | TON | | annual | <0.2 | <0.2 | ug/l | - | No abnormal change | no |
| 22/8/2016 | | TOC | | Quarterly | 5.01 | 3.74 | mg/l | | | no |
| 22/8/2016 | | Cadmium | | Annual | 1.8 | | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | | Annual | 70.9 | 70.9 | ug/l | 37.5 | 0.03 | no |

| oil monitoring template | | | | | Lic No: | W0002-01 | Year | 2016 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Copper | | Annual | 48.9 | 48.9 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | | Annual | 20.8 | 20.8 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | | Annual | 7.04 | 7.04 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | | Annual | 1744 | 1744 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | | Annual | 619 | 619 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | | Annual | <1.0 | <1.0 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | | Annual | 3.4 | 3.4 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | | Annual | 125 | 125 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | | Annual | 0.1 | 0.1 | mg/l | 0.09 | | no |
| Quarterly | 96 3D | pH | **Meter** | **Quarterly** | 7.1 | 6.8 | SELECT | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 15.1 | 12 | | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 480 | 377.1 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 13.9 | 13 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | ISE | Quarterly | 8.87 | 4.8 | mg/l | 0.065-0.175 | | yes |
| 22/8/2016 | | Iron | ICP | annual | 0.04 | 0.0386 | ug/l | | 0.2 | no |
| 22/8/2016 | | TON | HACH | annual | 0.44 | 0.44 | ug/l | - | No abnormal change | no |
| Quarterly | | TOC | TOC analyser | Quarterly | 3.8 | 2.48 | mg/l | | | no |
| 19/82015 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | <1 | <1 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | <1 | <1 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | <1 | <1 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 10.6 | 10.6 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | 23.1 | 23.1 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | <1 | <1 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | 1.33 | 1.33 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | 2.99 | 2.99 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 174 | 174 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | 0.6 | 0.6 | mg/l | 0.09 | | no |
| 22/8/2016 | | Naphthalene | GC-MS | Annual | 0.09 | 0.09 | ug/l | | 0.5 | no |
| 22/8/2016 | | Acenaphthylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 12 | no |
| 22/8/2016 | | Chrysene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Fluorene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Pyrene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Phenanthrene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Bromodichloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromoform | GC-MS | Annual | <1 | <1 | ug/l | | 2 | no |
| 22/8/2016 | | Chloroform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Vinyl Chloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloroethene | GC-MS | Annual | | | ug/l | | 0.03 | no |
| 22/8/2016 | | Bromomethane | GC-MS | Annual | <1 | <1 | ug/l | | 0.1 | no |
| 22/8/2016 | | Trichloromonofluoromethane | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 11 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1-dichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloropropene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2 dicloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1-trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 112 Trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Hexanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromoethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene P&M | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene O | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Styrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Isopropylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,2,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Propylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3,5-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Tert Butyl Benzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | sec-butylbenzene | GC-MS | Annual | <1 | **<1** | ug/l | | | no |
| 22/8/2016 | | Pentachlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Tetrachloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobutadiene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,6-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dimethylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2-dichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,4-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,5-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,6-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chloronaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 2-Methylnaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 2-Methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Nitrophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Bromophenyl Phenyl Ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Chloro-3-methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Chlorophenyl phenyl ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Nitrophenol | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Acenaphthene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(b)fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(g,h,i)perylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzyl Butyl Phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethoxy)methane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroisopropyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-ethylhexyl)phthalate | GC-MS | Annual | <1 | <1 | ug/l | | 30 | no |
| 22/8/2016 | | Dibenz(a,h)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Dibenzofuran | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diethylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | di-n-Butylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Di-n-octylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diphenylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Hexachloroethane | GC-MS | Annual | <5 | <5 | ug/l | | 500 | no |
| 22/8/2016 | | Indeno(1,2,3-c,d)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Isophorone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Nitrobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | n-Nitrosodi-n-propylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Acetone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichloromethane | GC-MS | Annual | <50 | <50 | ug/l | | | no |
| 22/8/2016 | | Tetrahydrofuran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Toluene | GC-MS | Annual | <1 | **<1** | ug/l | | | no |
| 22/8/2016 | | Xylene -o | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dichlorodifluoromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Chloride/Chloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Ether/Diethyl Ether | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Iodomethane/Methyl Iodide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Disulphide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Allyl Chloride | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Chlormethyl Cyanide/Chloroacetonitrile | GC-MS | Annual | | | ug/l | | 1 | no |
| 22/8/2016 | | Propanenitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Trans-1,2 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | MtBE | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 2,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | cis-12 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Butanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Methyl Acrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methacrylonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1-Chlorobutane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Tetrachloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,cis | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MIBK/4 Methyl 2 Pentanone | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 13 Dichloropropene,trans | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trans 14 Dichloro 2 Butene, tran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | P Isopropyltoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | N Butyl Benzene | GC-MS | Annual | | | | | **9.5** | no |
| 22/8/2016 | | 1,2-dibromo-3-chloropropane | GC-MS | Annual | | | | | 25 | no |
| 22/8/2016 | | 1,2,3-trichlorobenzene | GC-MS | Annual | | | | | 1000 | no |
| 22/8/2016 | | Mecoprop | GC-MS | Annual | <0.1 | <0.1 | mg/l | | 250 | no |
| 22/8/2016 | | Bentazone | GC-MS | Annual | | | mg/l | | | no |
| 22/8/2016 | | Simazine | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 0.2 | no |
| Quarterly | 96 4s | pH | | **Quarterly** | 7 | 6.7 | SELECT | | 9.5 | no |
| Quarterly | | Temp | | Quarterly | 15 | 12 | | | 25 | no |
| Quarterly | | Elec.Conductivity | | Quarterly | 267 | 236 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | | Quarterly | 12.9 | 11.2 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | | Quarterly | 0.23 | 0.15 | mg/l | 0.065-0.175 | | no |
| 22/8/2016 | | Iron | | Annual | 0.04 | 0.04 | ug/l | | 0.2 | no |
| 22/8/2016 | | TON | | Annual | 0.65 | 0.65 | ug/l | - | No abnormal change | no |
| Quarterly | | TOC | | Quarterly | 5.9 | 4.5 | mg/l | | | no |
| 22/8/2016 | | Cadmium | | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | | Annual | 2 | 2 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | | Annual | 8.4 | 8.4 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | | Annual | <1 | <1 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | | Annual | 8.01 | 8.01 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | | Annual | 2182 | 2182 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | | Annual | 15.3 | 15.3 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | | Annual | 1 | 1 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | | Annual | 4.95 | 4.95 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | | Annual | 106 | 106 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | | Annual | 0.15 | 0.15 | mg/l | 0.09 | | no |
| Quarterly | 96 4D | pH | | **Quarterly** | 7 | 6.9 | SELECT | | 9.5 | no |
| Quarterly | | Temp | | Quarterly | 20.1 | 12.9 | | | 25 | no |
| Quarterly | | Elec.Conductivity | | Quarterly | 628 | 593 | | | 1000 | no |
| Quarterly | | Chlorides | | Quarterly | 18.6 | 16.8 | mg/l | | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | | Quarterly | 19.2 | 13.8 | mg/l | | | yes |
| 22/8/2016 | | Iron | | Annual | 0.93 | 0.925 | ug/l | | 0.2 | no |
| 22/8/2016 | | TON | | Annual | <0.2 | <0.2 | ug/l | | No abnormal change | no |
| Quarterly | | TOC | | Quarterly | 4.96 | 2.72 | mg/l | | | no |
| 19/82015 | | Cadmium | | Annual | <1 | <1 | ug/l | | 0.005 | no |
| 22/8/2016 | | Chromium (total) | | Annual | <1 | <1 | ug/l | | 0.03 | no |
| 22/8/2016 | | Copper | | Annual | <1 | <1 | ug/l | | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | | Annual | <0.01 | <0.01 | ug/l | | 0.01 | no |
| 22/8/2016 | | Lead | | Annual | 660 | 660 | ug/l | | 0.01 | no |
| 22/8/2016 | | Mangnesium | | Annual | 17.9 | 17.9 | mg/l | | 50 | no |
| 22/8/2016 | | Manganese | | Annual | 247 | 247 | ug/l | | 0.05 | no |
| 22/8/2016 | | Mercury | | Annual | <0.5 | <0.5 | ug/l | | 0.001 | no |
| 22/8/2016 | | Nickle | | Annual | <1 | <1 | ug/l | | 0.02 | no |
| 22/8/2016 | | Potassium | | Annual | 3.44 | 3.44 | mg/l | | 5 | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Sulphate | | Annual | 1.6 | 1.6 | mg/l | | 200 | no |
| 22/8/2016 | | Total Alkalinity | | Annual | 306 | 306 | mg/l | | | no |
| 22/8/2016 | | Total Phosphorus | | Annual | 2.05 | 2.05 | mg/l | | | no |
| **Quarterly** | 96 5s | pH | **Meter** | **Quarterly** | 6.7 | 6.6 | mg/l | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 13.7 | 11.4 | mg/l | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 800.4 | 730.6 | mg/l | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 59.6 | 57.3 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | ISE | Quarterly | 0.12 | 0.10 | mg/l | 0.065-0.175 | | no |
| 22/8/2016 | | Iron | ICP | Annual | 138.8 | 138.8 | ug/l | | 0.2 | no |
| 19/82015 | | TON | HACH | Annual | <0.2 | <0.2 | ug/l | - | No abnormal change | no |
| Quarterly | | TOC | TOC analyser | Quarterly | 10.7 | 6.14 | mg/l | | | no |
| 19/82015 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | <1 | <1 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | 2 | 2 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | 3.7 | 3.7 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 8.83 | 8.83 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | 6233 | 6233 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | 10.7 | 10.7 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | 1.09 | 1.09 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | <0.5 | <0.5 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 297 | 297 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | 0.08 | 0.08 | mg/l | 0.09 | | no |
| 22/8/2016 | | Naphthalene | GC-MS | Annual | 1.1 | 1.1 | ug/l | | 0.5 | no |
| 22/8/2016 | | Acenaphthylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Chrysene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 2 | no |
| 22/8/2016 | | Fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Fluorene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Phenanthrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Bromodichloromethane | GC-MS | Annual | <1 | <1 | ug/l | | 0.03 | no |
| 22/8/2016 | | Bromoform | GC-MS | Annual | <1 | <1 | ug/l | | 0.1 | no |
| 22/8/2016 | | Chloroform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Vinyl Chloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloroethene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloromonofluoromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 11 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1-dichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloropropene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2 dicloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1-trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 112 Trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 1,3-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Hexanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromoethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene P&M | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene O | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Styrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Isopropylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,2,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Propylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3,5-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Tert Butyl Benzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | sec-butylbenzene | GC-MS | Annual | <1 | **<1** | ug/l | | | no |
| 22/8/2016 | | Pentachlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Tetrachloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobenzene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobutadiene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,6-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dimethylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,2-dichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 1,3-dichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | 10 | no |
| 22/8/2016 | | 1,4-dichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,4,5-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,6-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chloronaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylnaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Nitrophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Bromophenyl Phenyl Ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Chloro-3-methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Chlorophenyl phenyl ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Nitrophenol | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Acenaphthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(b)fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 30 | no |
| 22/8/2016 | | Benzo(g,h,i)perylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzyl Butyl Phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethoxy)methane | GC-MS | Annual | <1 | <1 | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Bis(2-chloroethyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroisopropyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-ethylhexyl)phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibenz(a,h)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 500 | no |
| 22/8/2016 | | Dibenzofuran | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diethylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | di-n-Butylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Di-n-octylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diphenylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Hexachloroethane | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Indeno(1,2,3-c,d)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Isophorone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Nitrobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | n-Nitrosodi-n-propylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Acetone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichloromethane | GC-MS | Annual | <50 | <50 | ug/l | | | no |
| 22/8/2016 | | Tetrahydrofuran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Toluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene -o | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dichlorodifluoromethane | GC-MS | Annual | <1 | <1 | ug/l | | 1 | no |
| 22/8/2016 | | Ethyl Chloride/Chloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Ether/Diethyl Ether | GC-MS | Annual | | | ug/l | | 10 | no |
| 22/8/2016 | | Iodomethane/Methyl Iodide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Disulphide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Allyl Chloride | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Chlormethyl Cyanide/Chloroacetonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Propanenitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Trans-1,2 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MtBE | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 2,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | cis-12 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Butanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Methyl Acrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methacrylonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1-Chlorobutane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Tetrachloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,cis | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MIBK/4 Methyl 2 Pentanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,trans | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trans 14 Dichloro 2 Butene, tran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | P Isopropyltoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | N Butyl Benzene | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 1,2-dibromo-3-chloropropane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichlorobenzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Mecoprop | GC-MS | Annual | 1.9 | 1.9 | ug/l | | | no |
| 22/8/2016 | | Bentazone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Simazine | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| **Quarterly** | 96 5d | pH | **Meter** | **Quarterly** | 7.3 | 7.1 | SELECT | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 13.9 | 11.1 | | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 540 | 516 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 14.8 | 14.4 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | ISE | Quarterly | 0.10 | 0.09 | mg/l | 0.065-0.175 | | no |
| 19/82015 | | Iron | ICP | Annual | 2.09 | 2.09 | ug/l | | 0.2 | no |
| 19/82015 | | TON | HACH | Annual | <0.2 | <0.2 | ug/l | - | No abnormal change | no |
| Quarterly | | TOC | TOC analyser | Quarterly | 0.82 | 0.60 | mg/l | | | no |
| 22/8/2016 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | <1 | <1 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | <1 | <1 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | <1 | <1 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 31.6 | 31.6 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | 702 | 702 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | 1.4 | 1.4 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | 1.16 | 1.16 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | 0.5 | 0.5 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 291 | 291 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | 0.1 | 0.1 | mg/l | 0.09 | | no |
| 22/8/2016 | | Naphthalene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | 0.5 | no |
| 22/8/2016 | | Acenaphthylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | 2 | no |
| 22/8/2016 | | Anthracene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Chrysene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Fluoranthene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Fluorene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Pyrene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | 0.03 | no |
| 22/8/2016 | | Phenanthrene | GC-MS | Annual | 0.02 | 0.02 | ug/l | | 0.1 | no |
| 22/8/2016 | | Bromodichloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bromoform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloroform | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromochloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Vinyl Chloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloroethene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trichloromonofluoromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1-dichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 11 Dichloropropene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2 dicloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | 1,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1-trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 112 Trichloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Hexanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromoethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Chlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,1,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene P&M | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Xylene O | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Styrene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Isopropylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,1,2,2-tetrachloroethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Propylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-chlorotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3,5-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Tert Butyl Benzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,2,4-trimethylbenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | sec-butylbenzene | GC-MS | Annual | <1 | **<1** | ug/l | | | no |
| 22/8/2016 | | Pentachlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Tetrachloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Hexachlorobutadiene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,6-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dimethylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | 10 | no |
| 22/8/2016 | | 1,2,4-trichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | 10 | no |
| 22/8/2016 | | 1,2-dichlorobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 1,3-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 1,4-dichlorobenzene | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4,5-Trichlorophenol | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | 2,4-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2,6-Dinitrotoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Chloronaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylnaphthalene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Nitrophenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Bromophenyl Phenyl Ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Chloro-3-methylphenol | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Chlorophenyl phenyl ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 4-Nitrophenol | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Acenaphthene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(a)anthracene | GC-MS | Annual | 0.01 | 0.01 | ug/l | | 30 | no |
| 22/8/2016 | | Benzo(a)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(b)fluoranthene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Benzo(g,h,i)perylene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | Benzyl Butyl Phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethoxy)methane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroethyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Bis(2-chloroisopropyl)ether | GC-MS | Annual | <1 | <1 | ug/l | | 500 | no |
| 22/8/2016 | | Bis(2-ethylhexyl)phthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibenz(a,h)anthracene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Dibenzofuran | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diethylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | di-n-Butylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Di-n-octylphthalate | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Diphenylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Hexachloroethane | GC-MS | Annual | <5 | <5 | ug/l | | | no |
| 22/8/2016 | | Indeno(1,2,3-c,d)pyrene | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| 22/8/2016 | | Isophorone | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Nitrobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | n-Nitrosodi-n-propylamine | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Acetone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichloromethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Tetrahydrofuran | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Toluene | GC-MS | Annual | | | ug/l | | 1 | no |
| 22/8/2016 | | Xylene -o | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Dichlorodifluoromethane | GC-MS | Annual | | | ug/l | | 10 | no |
| 22/8/2016 | | Ethyl Chloride/Chloroethane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Ethyl Ether/Diethyl Ether | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Iodomethane/Methyl Iodide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Disulphide | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Allyl Chloride | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Chlormethyl Cyanide/Chloroacetonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Propanenitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Trans-1,2 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MtBE | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 2,2-dichloropropane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | cis-12 Dichloroethene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | 2-Butanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Methyl Acrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromochloromethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methacrylonitrile | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1-Chlorobutane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Carbon Tetrachloride | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Dibromomethane | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Methyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,cis | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | MIBK/4 Methyl 2 Pentanone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 13 Dichloropropene,trans | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Ethyl Methacrylate | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Bromobenzene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | Trans 14 Dichloro 2 Butene, tran | GC-MS | Annual | | | ug/l | | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| 22/8/2016 | | P Isopropyltoluene | GC-MS | Annual | <1 | <1 | ug/l | | | no |
| 22/8/2016 | | N Butyl Benzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2-dibromo-3-chloropropane | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | 1,2,3-trichlorobenzene | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Mecoprop | GC-MS | Annual | <0.1 | <0.1 | ug/l | | | no |
| 22/8/2016 | | Bentazone | GC-MS | Annual | | | ug/l | | | no |
| 22/8/2016 | | Simazine | GC-MS | Annual | <0.01 | <0.01 | ug/l | | | no |
| **Quarterly** | 99 1S | pH | **Meter** | **Quarterly** | 7 | 6.9 | SELECT | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 15.2 | 11.4 | | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 356 | 337 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 14.1 | 13.5 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | ISE | Quarterly | 0.05 | 0.02 | mg/l | 0.065-0.175 | | no |
| 19/82015 | | Iron | ICP | Annual | 0.03 | 0.03 | ug/l | | 0.2 | no |
| 22/8/2016 | | TON | HACH | Annual | 0.3 | 0.3 | ug/l | - | No abnormal change | no |
| Quarterly | | TOC | TOC analyser | Quarterly | 0.4 | 0.19 | mg/l | | | no |
| 22/8/2016 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | <1 | <1 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | <1 | <1 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | <1 | <1 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 9.65 | 9.65 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | 840 | 840 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | <1 | <1 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | <1.0 | <1.0 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | 1.83 | 1.83 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 166 | 166 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | 0.07 | 0.07 | mg/l | 0.09 | | no |

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|---|---|---|---|---|---|---|---|---|---|---|
| **Quarterly** | 99 1D | pH | **Meter** | **Quarterly** | 7.1 | 7 | SELECT | | 9.5 | no |
| Quarterly | | Temp | Meter | Quarterly | 13.6 | 12.0 | | | 25 | no |
| Quarterly | | Elec.Conductivity | Meter | Quarterly | 447 | 437 | | 800-1875 | 1000 | no |
| Quarterly | | Chlorides | titration | Quarterly | 15.7 | 14.8 | mg/l | 24-187.5 | 250 | no |
| Quarterly | | Ammoniacal Nitorgen | ISE | Quarterly | 1.29 | 0.45 | mg/l | 0.065-0.175 | | no |
| 22/8/2016 | | Iron | ICP | Annual | 0.09 | 0.09 | ug/l | | 0.2 | no |
| 22/8/2016 | | TON | HACH | Annual | 0.36 | 0.36 | ug/l | - | No abnormal change | no |
| Quarterly | | TOC | TOC analyser | Quarterly | 1.7 | 1.2 | mg/l | | | no |
| 22/8/2016 | | Cadmium | ICP | Annual | <1 | <1 | ug/l | - | 0.005 | no |
| 22/8/2016 | | Chromium (total) | ICP | Annual | <1 | <1 | ug/l | 37.5 | 0.03 | no |
| 22/8/2016 | | Copper | COLORIMETRY | Annual | <1 | <1 | ug/l | 1500 | 0.03 | no |
| 22/8/2016 | | Cyanide (Total) | ICP | Annual | <0.01 | <0.01 | ug/l | - | 0.01 | no |
| 22/8/2016 | | Lead | ICP | Annual | 1.1 | 1.1 | ug/l | 18.75 | 0.01 | no |
| 22/8/2016 | | Mangnesium | ICP | Annual | 10.1 | 10.1 | mg/l | - | 50 | no |
| 22/8/2016 | | Manganese | ICP | Annual | 4630 | 4630 | ug/l | - | 0.05 | no |
| 22/8/2016 | | Mercury | ICP | Annual | <0.5 | <0.5 | ug/l | 0.75 | 0.001 | no |
| 22/8/2016 | | Nickle | ICP | Annual | <1 | <1 | ug/l | 15 | 0.02 | no |
| 22/8/2016 | | Potassium | ICP | Annual | <1.0 | <1.0 | mg/l | - | 5 | no |
| 22/8/2016 | | Sulphate | Aquakem auto analyser | Annual | 1.59 | 1.59 | mg/l | 187.5 | 200 | no |
| 22/8/2016 | | Total Alkalinity | icp | Annual | 225 | 225 | mg/l | - | | no |
| 22/8/2016 | | Total Phosphorus | spectrophotometry apha | Annual | 0.11 | 0.11 | mg/l | 0.09 | | no |

| oil monitoring template | | | Lic No: | W0002-01 | Year 2016 | | | |
|---|---|---|---|---|---|---|---|---|
| * please note exceedance of a relevant Groundwater threshold value (GTV) at a representative monitoring point does not indicate non compliance, an exceedance triggers further investigation to confirm whether the criteria for poor groundwater chemical status are being met. | | | | | | | | Interim Guideline Values (IGV) |
| **Depending on location of the site and proximity to other sensitive receptors alternative Receptor based Water Quality standards should be used in addition to the GTV e.g. if the site is close to surface water compare to Surface Water Environmental Quality Standards (SWEQS), If the site is close to a drinking water supply compare results to the Drinking Water Standards (DWS) | | | | | | | Surface water EQS | Groundwater regulations GTV's |
| **3: Soil results** | | | | | | | | |
| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration | Average Concentration | unit | |
| | | | | | | | SELECT | |
| | | | | | | | SELECT | |
| | | | | | | | | |

| Environmental Liabilities template | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

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

| | | | Commentary |
|---|---|---|---|
| 1 | ELRA initial agreement status | SELECT | |
| 2 | ELRA review status | SELECT | |
| 3 | Amount of Financial Provision cover required as determined by the latest ELRA | Specify | |
| 4 | Financial Provision for ELRA status | SELECT | |
| 5 | Financial Provision for ELRA - amount of cover | Specify | |
| 6 | Financial Provision for ELRA - type | SELECT | |
| 7 | Financial provision for ELRA expiry date | Enter expiry date | |
| 8 | Closure plan initial agreement status | SELECT | |
| 9 | Closure plan review status | SELECT | |
| 10 | Financial Provision for Closure status | SELECT | |
| 11 | Financial Provision for Closure - amount of cover | Specify | |
| 12 | Financial Provision for Closure - type | SELECT | |
| 13 | Financial provision for Closure expiry date | Enter expiry date | |

## Environmental Management Programme/Continuous Improvement Programme template

Lic No: W0002-01 Year 2016

Highlighted cells contain dropdown menu click to view

| | | | Additional Information |
|---|---|---|---|
| 1 | Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information | No | n/a |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site | SELECT | |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements | SELECT | |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | SELECT | |

**Environmental Management Programme (EMP) report**

| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
|---|---|---|---|---|---|
| SELECT | | SELECT | | SELECT | SELECT |
| SELECT | | SELECT | | SELECT | SELECT |
| SELECT | | SELECT | | SELECT | SELECT |

| Noise monitoring summary report | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

| | | |
|---|---|---|
| 1 | Was noise monitoring a licence requirement for the AER period?<br>If yes please fill in table N1 noise summary below | No |
| 2 | Was noise monitoring carried out using the EPA Guidance note including completion of the "Checklist for noise measurement report" included in the guidance note as table 6? (Noise Guidance note NG4) | SELECT |
| 3 | Does your site have a noise reduction plan | SELECT |
| 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? | SELECT |

**Table N1: Noise monitoring summary**

| Date of monitoring | Time period | Noise location (on site) | Noise sensitive location -NSL (if applicable) | $LA_{eq}$ | $LA_{90}$ | $LA_{10}$ | $LA_{max}$ | Tonal or Impulsive noise* (Y/N) | If tonal /impulsive noise was identified was 5dB penalty applied? | Comments (ex. main noise sources on site, & extraneous noise ex. road traffic) | Is site compliant with noise limits (day/evening/night)? |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SELECT | SELECT | | SELECT |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

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

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

| Resource Usage/Energy efficiency summary | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

| | | | Additional information |
|---|---|---|---|
| 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 | SEAI - Large Industry Energy Network (LIEN) | no |
| 3 | Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information | | no |

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) | | 17607Kwh | | |
| Total Energy Generated (MWHrs) | | | | |
| Total Renewable Energy Generated (MWHrs) | | | | |
| Electricity Consumption (MWHrs) | | | | |
| Fossil Fuels Consumption: | | | | |
| Heavy Fuel Oil (m3) | | | | |
| Light Fuel Oil (m3) | | | | |
| Natural gas (CMN) | | | | |
| Coal/Solid fuel (metric tonnes) | | | | |
| Peat (metric tonnes) | | | | |
| Renewable Biomass | | | | |
| Renewable energy generated on site | | | | |

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

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

Table R2 Water usage 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 | | | | | | | |
| Recycled water | | | | | | | |
| Total | | | | | | | |

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

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

Table R3 Waste Stream Summary

| | Total | Landfill | Incineration | Recycled | Other |
|---|---|---|---|---|---|
| Hazardous (Tonnes) | | | | | |
| Non-Hazardous (Tonnes) | | | | | |

**Resource Usage/Energy efficiency summary** Lic No: W0002-01 Year 2016

Table R4: Energy Audit finding recommendations

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

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

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

## Complaints and Incidents summary template

Lic No: W0002-01 Year 2016

### Complaints

| Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below | | Additional information |
|---|---|---|
| | no | |

Table 1 Complaints summary

| Date | Category | Other type (please specify) | Brief description of complaint (Free txt <20 words) | Corrective action< 20 words | Resolution status | Resolution date | Further information |
|---|---|---|---|---|---|---|---|
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |
| | SELECT | | | | SELECT | | |

| | | |
|---|---|---|
| Total complaints open at start of reporting year | | 0 |
| Total new complaints received during reporting year | | 0 |
| Total complaints closed during reporting year | | 0 |
| Balance of complaints end of reporting year | | 0 |

### Incidents

| Have any incidents occurred on site in the current reporting year? Please list all incidents for current reporting year in Table 2 below | | Additional information |
|---|---|---|
| | SELECT | |

| *For information on how to report and what constitutes an incident | What is an incident |
|---|---|

Table 2 Incidents summary

| Date of occurrence | Incident nature | Location of occurrence | Incident category*please refer to guidance | Receptor | Cause of incident | Other cause(please specify) | Activity in progress at time of incident | Communication | Occurrence | Corrective action<20 words | Preventative action <20 words | Resolution status | Resolution date | Liklihood of reoccurence |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |
| | SELECT | SELECT | SELECT | SELECT | SELECT | | SELECT | SELECT | SELECT | | | SELECT | | SELECT |

| | |
|---|---|
| Total number of incidents current year | |
| Total number of incidents previous year | |
| % reduction/ increase | |

| WASTE SUMMARY | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|
| SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES | | PRTR facility logon | dropdown list click to see options | |

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

| | | | Additional Information |
|---|---|---|---|
| 1 | Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility ?; (waste generated within your boundaries is to be captured through PRTR reporting) If yes please enter details in table 1 below | no | |
| 2 | Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information | no | |
| 3 | Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information | no | |

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

| Licenced annual tonnage limit for your site (total tonnes/annum) | EWC code<br>European Waste Catalogue EWC codes | Source of waste accepted | Description of waste accepted **Please enter an accurate and detailed description - which** European Waste Catalogue EWC codes | Quantity of waste accepted in current reporting year (tonnes) | Quantity of waste accepted in previous reporting year (tonnes) | Reduction/Increase over previous year +/ - % | Reason for reduction/increase from previous reporting year | Packaging Content (%)- only applies if the waste has a packaging component | Disposal/Recovery or treatment operation carried out at your site and the description of this operation | Quantity of waste remaining on site at the end of reporting year (tonnes) | Comments - |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *none* | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

| | | | |
|---|---|---|---|
| 4 | Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite | SELECT | |
| 5 | Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site | SELECT | |
| 6 | Does your facility have relevant nuisance controls in place? | SELECT | |
| 7 | Do you have an odour management system in place for your facility? If no why? | SELECT | |
| 8 | Do you maintain a sludge register on site? | SELECT | |

## SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

### Table 2 Waste type and tonnage-landfill only

| Waste types permitted for disposal | Authorised/licenced annual intake for disposal (tpa) | Actual intake for disposal in reporting year (tpa) | Remaining licensed capacity at end of reporting year (m3) | Comments |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

### Table 3 General information-Landfill only

| Area ID | Date landfilling commenced | Date landfilling ceased | Currently landfilling | Private or Public Operated | Inert or non-hazardous | Predicted date to cease landfilling | Licence permits asbestos | Is there a separate cell for asbestos? | Accepted asbestos in reporting year | Total disposal area occupied by waste | Lined disposal area occupied by waste | Unlined area | Comments on liner type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | SELECT UNIT | SELECT UNIT | SELECT UNIT | |
| Cell 8 | | | | | | | | | | | | | |

| WASTE SUMMARY | Lic No: | W0002-01 | Year | 2016 |
|---|---|---|---|---|

## Table 4 Environmental monitoring-landfill onl Landfill Manual-Monitoring Standards

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

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

## Table 5 Capping-Landfill only

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

*please note this includes daily cover area

## Table 6 Leachate-Landfill only

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

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

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

## Table 7 Landfill Gas-Landfill only

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