

Facility Information Summary

| | |
|-----------------------------------|---------------------------------------|
| AER Reporting Year | 2017 |
| Licence Register Number | W0151-01 |
| Name of site | Murphy Environmental Gormanston |
| Site Location | Sarsfieldstown, Gormanston, Co. Meath |
| NACE Code | 3832 |
| Class/Classes of Activity | 3.1, 3.13, 4.3, 4.4, 4.13 |
| National Grid Reference (6E, 6 N) | -6.25153 53.654 |

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.**

Land Restoration - Using clean construction and demolition waste - Soil & Stones and Concrete, in line with licence requirements. It has been agreed with the Agency that W0151-01 is a recovery activity.

No waste was accepted into the site in 2017. Gravel processing commenced at the site in May 2017.

Annual monitoring was conducted during the reporting year for: noise, LF gas, dust, surface water, groundwater and leachate. There were a number of breaches of trigger levels, as detailed in the 'Complaints-Incidents' tab - all were reported as 'minor incidents' to the EPA.

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.

| | |
|--|--------------------------------|
| <p><i>Kerstie Flanagan</i></p> <p>Kerstie Flanagan Environmental Consultant</p> <p>(or nominated, suitably qualified and experienced deputy)</p> | <p>_____</p> <p>09/03/2017</p> |
|--|--------------------------------|

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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

| | |
|----|---|
| No | Ambient dust monitoring was conducted at 4 No. monitoring locations in Q3, 2017 (25/07/17 to 25/08/17) and Q4, 2017 (14/11/17 to 12/12/17) - there were no breaches of the dust ELV set in the licence. |
|----|---|

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](#) [AGN2](#)

| | |
|--------|--|
| 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 thereof | Licence Compliance criteria | Measured value | Unit of measurement | Compliant with licence limit | Method of analysis | Annual mass load (kg) | Comments - reason for change in % mass load from previous year if applicable |
|------------------------|----------------------|-------------------------|--|-----------------------------|----------------|---------------------|------------------------------|--------------------|-----------------------|--|
| | 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

Continuous Monitoring

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

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

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

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

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

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

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7

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

SELECT

Table A2: Summary of average emissions -continuous monitoring

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

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

Table A3: Abatement system bypass reporting table

[Bypass protocol](#)

| Date* | Duration** (hours) | Location | Reason for bypass | Impact magnitude | Corrective action |
|-------|--------------------|----------|-------------------|------------------|-------------------|
| | | | | | |
| | | | | | |
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* this should include all dates that an abatement system bypass occurred

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

Solvent use and management on site

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

SELECT

| | | |
|--|-------------------------------------|--|
| Table A4: Solvent Management Plan Summary | Solvent regulations | Please refer to linked solvent regulations to complete table 5 and 6 |
| Total VOC Emission limit value | | |

| Reporting year | Total solvent input on site (kg) | Total VOC emissions to Air from entire site (direct and fugitive) | Total VOC emissions as %of solvent input | Total Emission Limit Value (ELV) in licence or any revision thereof | Compliance |
|----------------|----------------------------------|---|--|---|------------|
| | | | | | SELECT |
| | | | | | SELECT |

Table A5: Solvent Mass Balance summary

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

| AER Monitoring returns summary template-WATER/WASTEWATER(SEWER) | | | | | | | Lic No: | W0151-01 | Year | 2017 |
|---|--------|--------|--|--------|--------|--------|---------|----------|------|------|
| | SELECT | SELECT | | SELECT | SELECT | SELECT | | | | |
| | SELECT | SELECT | | SELECT | SELECT | SELECT | | | | |

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

Table W5: Abatement system bypass reporting table

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

*Measures taken or proposed to reduce or limit bypass frequency

Bund testing

dropdown menu click to see options

Additional information

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

| | |
|--------|--|
| SELECT | Bund testing is stipulated in W0151-01; however fuel is no longer stored on site (the plant items which required diesel are no longer on site). Bund testing has, therefore, not been required (diesel tanks are empty). |
| SELECT | |
| SELECT | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| SELECT | |
| SELECT | |
| SELECT | |

- 1
 - 2 Please provide integrity testing frequency period
Does the site maintain a register of bunds, underground pipelines (including stormwater and foul), Tanks, sumps and containers? (containers refers to "Chemstore" type units and mobile bunds)
 - 3 How many bunds are on site?
 - 4 How many of these bunds have been tested within the required test schedule?
 - 5 How many mobile bunds are on site?
 - 6 Are the mobile bunds included in the bund test schedule?
 - 7 How many of these mobile bunds have been tested within the required test schedule?
 - 8 How many sumps on site are included in the integrity test schedule?
 - 9 How many of these sumps are integrity tested within the test schedule?
- Please list any sump integrity failures in table B1**
- 11 Do all sumps and chambers have high level liquid alarms?
 - 12 If yes to Q11 are these failsafe systems included in a maintenance and testing programme?
 - 13 Is the Fire Water Retention Pond included in your integrity test programme?

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

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

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

15 Are channels/transfer systems to remote containment systems tested?

17 Are channels/transfer systems compliant in both integrity and available volume?

Pipeline/underground structure testing

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

1 underground structures and pipelines on site **which failed the integrity test and all which have not been tested within the integrity test period as specified**

2 Please provide integrity testing frequency period

*please note integrity testing means water tightness testing of all underground pipelines (as required under your licence)

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

| | | |
|---|------------------|------------|
| Groundwater/Soil monitoring template | Lic No: W0151-01 | Year: 2017 |
|---|------------------|------------|

| | | 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 | Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below. Groundwater monitoring template. | no |
| 5 | Is the contamination related to operations at the facility (either current and/or historic) | no |
| 6 | Have actions been taken to address contamination issues? If yes please summarise remediation strategies proposed/undertaken for the site | N/A |
| 7 | Please specify the proposed time frame for the remediation strategy | N/A |
| 8 | Is there a licence condition to carry out/update ELRA for the site? | yes |
| 9 | Has any type of risk assesment been carried out for the site? | yes |
| 10 | Has a Conceptual Site Model been developed for the site? | yes |
| 11 | Have potential receptors been identified on and off site? | yes |
| 12 | Is there evidence that contamination is migrating offsite? | no |

Please provide an interpretation of groundwater monitoring data in the interpretation box below or if you require additional space please include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER

Groundwater is monitored on a quarterly basis and a quarterly report submitted to the Agency. Results were generally in conformance with relevant limit values and the EPA trigger levels set for the site. There were a number of breaches of trigger levels/ELVs reported to the Agency as minor incidents during the reporting year (detailed in 'Incidents' tab). Exceedances relative to trigger levels/ELVs are thought to be largely related to external sources, and not as a result of the operation of the subject facility.

Table 1: Upgradient Groundwater monitoring results

| Date of sampling | Sample location reference | Parameter/ Substance | Methodology | Monitoring frequency | Maximum Concentration++ | Average Concentration+ | unit | GTV's* | SELECT** | Upward trend in pollutant concentration over last 5 years of monitoring data |
|--|---------------------------|----------------------|--------------|----------------------|-------------------------|------------------------|------|-------------------------------|----------|--|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.060 | 0.038 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

| Groundwater/Soil monitoring template | | | | Lic No: | W0151-01 | Year | 2017 | | | |
|--|-------|----------------------|----------------|-----------|----------|----------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Chloride | Lab analysis | Quarterly | 47.9 | 46.075 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Sulphate | Lab analysis | Quarterly | 62.2 | 55.35 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Total Organic Carbon | Lab analysis | Quarterly | 2 | 2 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Colour | Field analysis | Quarterly | Clear | Clear | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Conductivity | Field analysis | Quarterly | 0.396 | 0.332625 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Dissolved Oxygen | Field analysis | Quarterly | 7 | 4.3925 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Level, Water | Field analysis | Quarterly | 12.07 | 11.7275 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Odour | Field analysis | Quarterly | None | None | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | pH | Field analysis | Quarterly | 7.8 | 7.5025 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-18 | Temperature | Field analysis | Quarterly | 12 | 11.375 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Alkalinity, Total | Lab analysis | Annually | 58 | 58 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Boron | Lab analysis | Annually | 0.013 | 0.013 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-18 | Calcium | Lab analysis | Annually | 25.7 | 25.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Coliforms, Total | Lab analysis | Annually | 13.7 | 13.7 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |

| Groundwater/Soil monitoring template | | | | Lic No: | W0151-01 | Year | 2017 | | | |
|--|-------|-------------------------|--------------|-----------|----------|---------|------|----------------------------|-----|----|
| 01/02/2017 | MW-18 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-18 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Fluoride | Lab analysis | Annually | 0.4 | 0.4 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Magnesium | Lab analysis | Annually | 1.8 | 1.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Manganese | Lab analysis | Annually | 0.046 | 0.046 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Phosphorous, Total | Lab analysis | Annually | 0.058 | 0.058 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Potassium | Lab analysis | Annually | 2 | 2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Residue on Evaporation | Lab analysis | Annually | 253 | 253 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Sodium | Lab analysis | Annually | 38.7 | 38.7 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-18 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-18 | Zinc | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.03 | 0.03 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Chloride | Lab analysis | Quarterly | 121.3 | 79.95 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Sulphate | Lab analysis | Quarterly | 185.4 | 135.175 | mg/l | W0151-01 EPA Trigger Level | 140 | no |

| Groundwater/Soil monitoring template | | | | Lic No: | W0151-01 | Year | 2017 | | | |
|--|-------|----------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Total Organic Carbon | Lab analysis | Quarterly | 9 | 4.5 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Colour | Field analysis | Quarterly | Clear | Clear | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Conductivity | Field analysis | Quarterly | 1.271 | 0.9865 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Dissolved Oxygen | Field analysis | Quarterly | 6 | 4.665 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Level, Water | Field analysis | Quarterly | 12.06 | 11.8575 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Odour | Field analysis | Quarterly | None | None | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | pH | Field analysis | Quarterly | 7.4 | 7.325 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-19 | Temperature | Field analysis | Quarterly | 12.1 | 11.1 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Alkalinity, Total | Lab analysis | Annually | 406 | 406 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Boron | Lab analysis | Annually | 0.038 | 0.038 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-19 | Calcium | Lab analysis | Annually | 146.5 | 146.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Coliforms, Faecal | Lab analysis | Annually | 3.1 | 3.1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Coliforms, Total | Lab analysis | Annually | 13.7 | 13.7 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-19 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

| Groundwater/Soil monitoring template | | | | Lic No: | W0151-01 | Year | 2017 | | | |
|--|-------|-------------------------|----------------|-----------|----------|---------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-19 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Magnesium | Lab analysis | Annually | 13.1 | 13.1 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Phosphorous, Total | Lab analysis | Annually | 0.929 | 0.929 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Potassium | Lab analysis | Annually | 3.8 | 3.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Residue on Evaporation | Lab analysis | Annually | 1530 | 1530 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Sodium | Lab analysis | Annually | 28.4 | 28.4 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-19 | Total Oxidized Nitrogen | Lab analysis | Annually | 7.9 | 7.9 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-19 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.14 | 0.0575 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Chloride | Lab analysis | Quarterly | 229.2 | 122.95 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Sulphate | Lab analysis | Quarterly | 153.4 | 92.8 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Total Organic Carbon | Lab analysis | Quarterly | 8 | 4.75 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Conductivity | Field analysis | Quarterly | 1.342 | 1.16625 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |

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|--|-------|-------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Dissolved Oxygen | Field analysis | Quarterly | 7 | 5.965 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Level, Water | Field analysis | Quarterly | 12.23 | 11.9375 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | pH | Field analysis | Quarterly | 7.36 | 7.085 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-21 | Temperature | Field analysis | Quarterly | 13.3 | 11.7 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Alkalinity, Total | Lab analysis | Annually | 512 | 512 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Boron | Lab analysis | Annually | 0.049 | 0.049 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-21 | Calcium | Lab analysis | Annually | 205.4 | 205.4 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Coliforms, Total | Lab analysis | Annually | 4.1 | 4.1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-21 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Magnesium | Lab analysis | Annually | 0 | 0 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|----------------|-----------|----------|---------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-21 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Phosphorous, Total | Lab analysis | Annually | 0.46 | 0.46 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Potassium | Lab analysis | Annually | 3.2 | 3.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Residue on Evaporation | Lab analysis | Annually | 1112 | 1112 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Sodium | Lab analysis | Annually | 35.7 | 35.7 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-21 | Total Oxidized Nitrogen | Lab analysis | Annually | 8.5 | 8.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-21 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.03 | 0.03 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Chloride | Lab analysis | Quarterly | 29.6 | 25.8 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Sulphate | Lab analysis | Quarterly | 43.2 | 31.425 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Total Organic Carbon | Lab analysis | Quarterly | 6 | 3.5 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Conductivity | Field analysis | Quarterly | 0.826 | 0.70175 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Dissolved Oxygen | Field analysis | Quarterly | 8 | 6.3875 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Level, Water | Field analysis | Quarterly | 10.67 | 10.23 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|--------------------|----------------|-----------|----------|--------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | pH | Field analysis | Quarterly | 7.49 | 7.305 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Temperature | Field analysis | Quarterly | 15.2 | 12.35 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-24 | Alkalinity, Total | Lab analysis | Annually | 362 | 362 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Boron | Lab analysis | Annually | 0.027 | 0.027 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-24 | Calcium | Lab analysis | Annually | 135.8 | 135.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Coliforms, Total | Lab analysis | Annually | 144.5 | 144.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-24 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Magnesium | Lab analysis | Annually | 11.7 | 11.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Phosphorous, Total | Lab analysis | Annually | 0.553 | 0.553 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Potassium | Lab analysis | Annually | 3.2 | 3.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|----------------|-----------|----------|----------|------------|----------------------------|--------|----|
| 01/02/2017 | MW-24 | Residue on Evaporation | Lab analysis | Annually | 963 | 963 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Sodium | Lab analysis | Annually | 20.4 | 20.4 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-24 | Total Oxidized Nitrogen | Lab analysis | Annually | 4.2 | 4.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-24 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.03 | 0.03 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Chloride | Lab analysis | Quarterly | 48.4 | 44.45 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Sulphate | Lab analysis | Quarterly | 56.5 | 49.625 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Total Organic Carbon | Lab analysis | Quarterly | 5 | 3.25 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Conductivity | Field analysis | Quarterly | 0.781 | 0.628975 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Dissolved Oxygen | Field analysis | Quarterly | 6.37 | 4.9175 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Level, Water | Field analysis | Quarterly | 10.81 | 10.28 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | pH | Field analysis | Quarterly | 7.6 | 7.4675 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-25 | Temperature | Field analysis | Quarterly | 12.3 | 11.35 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Alkalinity, Total | Lab analysis | Annually | 282 | 282 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Boron | Lab analysis | Annually | 0.04 | 0.04 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--------------------------------------|-------|-------------------------|--------------|----------|----------|---------|------------|----------------------------|-------|----|
| 01/02/2017 | MW-25 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-25 | Calcium | Lab analysis | Annually | 91.8 | 91.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Coliforms, Total | Lab analysis | Annually | #VALUE! | #VALUE! | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-25 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Fluoride | Lab analysis | Annually | 0.6 | 0.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Magnesium | Lab analysis | Annually | 19.2 | 19.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Phosphorous, Total | Lab analysis | Annually | 0.137 | 0.137 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Potassium | Lab analysis | Annually | 4.3 | 4.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Residue on Evaporation | Lab analysis | Annually | 547 | 547 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Sodium | Lab analysis | Annually | 42 | 42 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-25 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.2 | 0.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-25 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|----------------------|----------------|-----------|----------|----------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 10.05 | 6.24 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Chloride | Lab analysis | Quarterly | 27.9 | 26.375 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Sulphate | Lab analysis | Quarterly | 0.9 | 0.625 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Total Organic Carbon | Lab analysis | Quarterly | 6 | 3.25 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Conductivity | Field analysis | Quarterly | 0.364 | 0.308375 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Dissolved Oxygen | Field analysis | Quarterly | 4 | 2.5275 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Level, Water | Field analysis | Quarterly | 13.02 | 12.5775 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | pH | Field analysis | Quarterly | 9 | 8.795 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | TW-2 | Temperature | Field analysis | Quarterly | 12 | 11.4 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | TW-2 | Boron | Lab analysis | Annually | 0.028 | 0.028 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | TW-2 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | TW-2 | Calcium | Lab analysis | Annually | 8 | 8 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | TW-2 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | TW-2 | Coliforms, Faecal | Lab analysis | Annually | 42 | 42 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | TW-2 | Coliforms, Total | Lab analysis | Annually | 200.5 | 200.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|----------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 1.57 | 0.7875 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Chloride | Lab analysis | Quarterly | 31.7 | 24.45 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Sulphate | Lab analysis | Quarterly | 4.5 | 2.375 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Total Organic Carbon | Lab analysis | Quarterly | 8 | 3.75 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Colour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Conductivity | Field analysis | Quarterly | 0.71 | 0.51975 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Dissolved Oxygen | Field analysis | Quarterly | 9 | 4.9075 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Level, Water | Field analysis | Quarterly | 15.26 | 15.0825 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | pH | Field analysis | Quarterly | 7.68 | 7.565 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-1 | Temperature | Field analysis | Quarterly | 13.4 | 12.375 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Alkalinity, Total | Lab analysis | Annually | 100 | 100 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Boron | Lab analysis | Annually | 0.016 | 0.016 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Cadmium | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-1 | Calcium | Lab analysis | Annually | 20.9 | 20.9 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------------|--------------|-----------|----------|--------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-1 | Coliforms, Total | Lab analysis | Annually | 45.3 | 45.3 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-1 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Magnesium | Lab analysis | Annually | 1.5 | 1.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Manganese | Lab analysis | Annually | 0.012 | 0.012 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Phosphorous, Total | Lab analysis | Annually | 0.031 | 0.031 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Potassium | Lab analysis | Annually | 5.8 | 5.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Residue on Evaporation | Lab analysis | Annually | 333 | 333 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Sodium | Lab analysis | Annually | 9.7 | 9.7 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-1 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.6 | 0.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-1 | Zinc | Lab analysis | Annually | 0.011 | 0.011 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.3 | 0.1725 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Chloride | Lab analysis | Quarterly | 47.8 | 44.35 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |

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|--|------|----------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Sulphate | Lab analysis | Quarterly | 105.2 | 65.075 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Total Organic Carbon | Lab analysis | Quarterly | 2 | 2 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Colour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Conductivity | Field analysis | Quarterly | 0.75 | 0.50475 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Dissolved Oxygen | Field analysis | Quarterly | 4 | 2.575 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Level, Water | Field analysis | Quarterly | 11.98 | 11.6 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Odour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | pH | Field analysis | Quarterly | 9.1 | 8.205 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-2 | Temperature | Field analysis | Quarterly | 13.4 | 9.695 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Alkalinity, Total | Lab analysis | Annually | 120 | 120 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Boron | Lab analysis | Annually | 0.016 | 0.016 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-2 | Calcium | Lab analysis | Annually | 66.6 | 66.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Coliforms, Total | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-2 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------------|--------------|-----------|----------|--------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-2 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Iron | Lab analysis | Annually | 0.023 | 0.023 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Magnesium | Lab analysis | Annually | 12.7 | 12.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Manganese | Lab analysis | Annually | 0.357 | 0.357 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Nickel | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Phosphorous, Total | Lab analysis | Annually | 0.295 | 0.295 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Potassium | Lab analysis | Annually | 3.1 | 3.1 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Residue on Evaporation | Lab analysis | Annually | 782 | 782 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Sodium | Lab analysis | Annually | 24.8 | 24.8 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-2 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.2 | 0.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-2 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.48 | 0.2125 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Chloride | Lab analysis | Quarterly | 12 | 10.5 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Sulphate | Lab analysis | Quarterly | 21 | 16.125 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Total Organic Carbon | Lab analysis | Quarterly | 14 | 9 | mg/l | W0151-01 EPA Trigger Level | 50 | no |

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|--|------|-------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Colour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Conductivity | Field analysis | Quarterly | 0.534 | 0.3945 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Dissolved Oxygen | Field analysis | Quarterly | 5.42 | 2.905 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Level, Water | Field analysis | Quarterly | 11.12 | 10.8725 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Odour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | pH | Field analysis | Quarterly | 7.8 | 7.54 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-3 | Temperature | Field analysis | Quarterly | 12.8 | 11.325 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Alkalinity, Total | Lab analysis | Annually | 236 | 236 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Boron | Lab analysis | Annually | 0.026 | 0.026 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-3 | Calcium | Lab analysis | Annually | 88.4 | 88.4 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Coliforms, Faecal | Lab analysis | Annually | 28.8 | 28.8 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Coliforms, Total | Lab analysis | Annually | 200.5 | 200.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Copper | Lab analysis | Annually | N/A | N/A | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-3 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Iron | Lab analysis | Annually | 0.056 | 0.056 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------------|----------------|-----------|----------|---------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-3 | Magnesium | Lab analysis | Annually | 6.1 | 6.1 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Manganese | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Phosphorous, Total | Lab analysis | Annually | 0.19 | 0.19 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Potassium | Lab analysis | Annually | 4.2 | 4.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Residue on Evaporation | Lab analysis | Annually | 327 | 327 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Sodium | Lab analysis | Annually | 9.6 | 9.6 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-3 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.2 | 0.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-3 | Zinc | Lab analysis | Annually | 0.004 | 0.004 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.75 | 0.4225 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Chloride | Lab analysis | Quarterly | 35.9 | 26.875 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Sulphate | Lab analysis | Quarterly | 1497.9 | 487.725 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Total Organic Carbon | Lab analysis | Quarterly | 6 | 3.75 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Colour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Conductivity | Field analysis | Quarterly | 2.276 | 1.06725 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Dissolved Oxygen | Field analysis | Quarterly | 5.66 | 2.84 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------|----------------|-----------|----------|--------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Level, Water | Field analysis | Quarterly | 11.81 | 11.155 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Odour | Field analysis | Quarterly | N/A | N/A | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | pH | Field analysis | Quarterly | 7.4 | 7.2525 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-4 | Temperature | Field analysis | Quarterly | 12.8 | 11.275 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Alkalinity, Total | Lab analysis | Annually | 96 | 96 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Boron | Lab analysis | Annually | 0.033 | 0.033 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Cadmium | Lab analysis | Annually | 0.0007 | 0.0007 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-4 | Calcium | Lab analysis | Annually | 660.5 | 660.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Coliforms, Total | Lab analysis | Annually | 7.5 | 7.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-4 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Magnesium | Lab analysis | Annually | 31.9 | 31.9 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Manganese | Lab analysis | Annually | 6.412 | 6.412 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Nickel | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 | MW-4 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Phosphorous, Total | Lab analysis | Annually | 0.236 | 0.236 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Potassium | Lab analysis | Annually | 9.6 | 9.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Residue on Evaporation | Lab analysis | Annually | 2503 | 2503 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Sodium | Lab analysis | Annually | 28.3 | 28.3 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-4 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.2 | 0.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-4 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.47 | 0.2675 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Chloride | Lab analysis | Quarterly | 38.6 | 27.35 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Sulphate | Lab analysis | Quarterly | 85.4 | 47.4 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Total Organic Carbon | Lab analysis | Quarterly | 6 | 4.5 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Conductivity | Field analysis | Quarterly | 0.785 | 0.60875 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Dissolved Oxygen | Field analysis | Quarterly | 7 | 4.99 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Level, Water | Field analysis | Quarterly | 11.34 | 11.025 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | pH | Field analysis | Quarterly | 7.6 | 7.5225 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |

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|--|------|------------------------|----------------|-----------|----------|--------|------------|----------------------------|-------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-5 | Temperature | Field analysis | Quarterly | 12.2 | 11.2 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Alkalinity, Total | Lab analysis | Annually | 284 | 284 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Boron | Lab analysis | Annually | 0.038 | 0.038 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-5 | Calcium | Lab analysis | Annually | 87.1 | 87.1 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Coliforms, Total | Lab analysis | Annually | 144.5 | 144.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-5 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Magnesium | Lab analysis | Annually | 8.7 | 8.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Manganese | Lab analysis | Annually | 0.253 | 0.253 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Orthophosphates | Lab analysis | Annually | 0.66 | 0.66 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Phosphorous, Total | Lab analysis | Annually | 0.343 | 0.343 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Potassium | Lab analysis | Annually | 36.5 | 36.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Residue on Evaporation | Lab analysis | Annually | 457 | 457 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------------|----------------|-----------|----------|----------|------------|----------------------------|--------|----|
| 01/02/2017 | MW-5 | Sodium | Lab analysis | Annually | 21.3 | 21.3 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-5 | Total Oxidized Nitrogen | Lab analysis | Annually | 1.3 | 1.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-5 | Zinc | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.34 | 0.1075 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Chloride | Lab analysis | Quarterly | 26.3 | 22.425 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Sulphate | Lab analysis | Quarterly | 37.1 | 31.475 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Total Organic Carbon | Lab analysis | Quarterly | 28 | 9.75 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Conductivity | Field analysis | Quarterly | 0.632 | 0.450725 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Dissolved Oxygen | Field analysis | Quarterly | 8 | 6.115 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Level, Water | Field analysis | Quarterly | 11.28 | 10.97 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | pH | Field analysis | Quarterly | 7.88 | 7.735 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-6 | Temperature | Field analysis | Quarterly | 11.8 | 11.275 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Alkalinity, Total | Lab analysis | Annually | 196 | 196 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Boron | Lab analysis | Annually | 0.014 | 0.014 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--------------------------------------|------|-------------------------|--------------|----------|----------|--------|------------|----------------------------|-------|----|
| 01/02/2017 | MW-6 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-6 | Calcium | Lab analysis | Annually | 51.5 | 51.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Coliforms, Faecal | Lab analysis | Annually | 2 | 2 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Coliforms, Total | Lab analysis | Annually | 36.4 | 36.4 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-6 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Magnesium | Lab analysis | Annually | 3.8 | 3.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Manganese | Lab analysis | Annually | 0.006 | 0.006 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Nickel | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Orthophosphates | Lab analysis | Annually | 0.23 | 0.23 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Phosphorous, Total | Lab analysis | Annually | 0.15 | 0.15 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Potassium | Lab analysis | Annually | 45.2 | 45.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Residue on Evaporation | Lab analysis | Annually | 333 | 333 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Sodium | Lab analysis | Annually | 25.2 | 25.2 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-6 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.7 | 0.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-6 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|----------------------|----------------|-----------|----------|----------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.04 | 0.0325 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Chloride | Lab analysis | Quarterly | 87 | 80.225 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Sulphate | Lab analysis | Quarterly | 19.7 | 11.075 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Total Organic Carbon | Lab analysis | Quarterly | 3 | 2.25 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Conductivity | Field analysis | Quarterly | 0.493 | 0.371725 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Dissolved Oxygen | Field analysis | Quarterly | 3 | 2.5725 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Level, Water | Field analysis | Quarterly | 10.9 | 10.3775 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | pH | Field analysis | Quarterly | 8.3 | 8.055 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-14 | Temperature | Field analysis | Quarterly | 14.4 | 12.3275 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Alkalinity, Total | Lab analysis | Annually | 76 | 76 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Boron | Lab analysis | Annually | 0.017 | 0.017 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-14 | Calcium | Lab analysis | Annually | 21.2 | 21.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Coliforms, Faecal | Lab analysis | Annually | 3.1 | 3.1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|--------------|-----------|----------|--------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-14 | Coliforms, Total | Lab analysis | Annually | 200.5 | 200.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-14 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Fluoride | Lab analysis | Annually | 0.5 | 0.5 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Magnesium | Lab analysis | Annually | 2.7 | 2.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Manganese | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Phosphorous, Total | Lab analysis | Annually | 0.087 | 0.087 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Potassium | Lab analysis | Annually | 2.2 | 2.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Residue on Evaporation | Lab analysis | Annually | 268 | 268 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Sodium | Lab analysis | Annually | 63.2 | 63.2 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-14 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.2 | 0.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-14 | Zinc | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.1 | 0.0575 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Chloride | Lab analysis | Quarterly | 48.1 | 47.125 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |

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|--|-------|----------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Sulphate | Lab analysis | Quarterly | 20.6 | 14.625 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Total Organic Carbon | Lab analysis | Quarterly | 2 | 2 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Conductivity | Field analysis | Quarterly | 0.394 | 0.3686 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Dissolved Oxygen | Field analysis | Quarterly | 5 | 3.365 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Level, Water | Field analysis | Quarterly | 10.73 | 10.2425 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | pH | Field analysis | Quarterly | 7.7 | 7.65 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-16 | Temperature | Field analysis | Quarterly | 13.4 | 11.675 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Alkalinity, Total | Lab analysis | Annually | 98 | 98 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Boron | Lab analysis | Annually | 0.019 | 0.019 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-16 | Calcium | Lab analysis | Annually | 21.3 | 21.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Coliforms, Faecal | Lab analysis | Annually | 19.2 | 19.2 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Coliforms, Total | Lab analysis | Annually | 144.5 | 144.5 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-16 | Cyanide | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|--------------|-----------|----------|--------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-16 | Fluoride | Lab analysis | Annually | 0.4 | 0.4 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Iron | Lab analysis | Annually | 0.031 | 0.031 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Magnesium | Lab analysis | Annually | 5.6 | 5.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Phosphorous, Total | Lab analysis | Annually | 0.056 | 0.056 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Potassium | Lab analysis | Annually | 2.2 | 2.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Residue on Evaporation | Lab analysis | Annually | 203 | 203 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Sodium | Lab analysis | Annually | 35.6 | 35.6 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-16 | Total Oxidized Nitrogen | Lab analysis | Annually | 0.2 | 0.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-16 | Zinc | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.3 | 0.0975 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Chloride | Lab analysis | Quarterly | 46.4 | 41.675 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Sulphate | Lab analysis | Quarterly | 89.4 | 81.15 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Total Organic Carbon | Lab analysis | Quarterly | 8 | 4.25 | mg/l | W0151-01 EPA Trigger Level | 50 | no |

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|--|-------|-------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Conductivity | Field analysis | Quarterly | 1.013 | 0.8685 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Dissolved Oxygen | Field analysis | Quarterly | 8 | 7.365 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Level, Water | Field analysis | Quarterly | 10.98 | 10.285 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | pH | Field analysis | Quarterly | 7.33 | 7.2375 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-17 | Temperature | Field analysis | Quarterly | 12.8 | 11.525 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Alkalinity, Total | Lab analysis | Annually | 388 | 388 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Boron | Lab analysis | Annually | 0.041 | 0.041 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-17 | Calcium | Lab analysis | Annually | 154.8 | 154.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Coliforms, Total | Lab analysis | Annually | 3.1 | 3.1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-17 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|----------------|-----------|----------|---------|------------|----------------------------|-----|----|
| 01/02/2017 | MW-17 | Magnesium | Lab analysis | Annually | 18.6 | 18.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Nickel | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Phosphorous, Total | Lab analysis | Annually | 0.513 | 0.513 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Potassium | Lab analysis | Annually | 8.6 | 8.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Residue on Evaporation | Lab analysis | Annually | 1177 | 1177 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Sodium | Lab analysis | Annually | 27.1 | 27.1 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-17 | Total Oxidized Nitrogen | Lab analysis | Annually | 14.6 | 14.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-17 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.03 | 0.03 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Chloride | Lab analysis | Quarterly | 45.4 | 40 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Sulphate | Lab analysis | Quarterly | 83.2 | 75.425 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Total Organic Carbon | Lab analysis | Quarterly | 9 | 4 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Conductivity | Field analysis | Quarterly | 0.919 | 0.82375 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Dissolved Oxygen | Field analysis | Quarterly | 7 | 6.045 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Level, Water | Field analysis | Quarterly | 13.79 | 9.57 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | pH | Field analysis | Quarterly | 7.5 | 7.335 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-20 | Temperature | Field analysis | Quarterly | 12.9 | 11.825 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Alkalinity, Total | Lab analysis | Annually | 360 | 360 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Boron | Lab analysis | Annually | 0.039 | 0.039 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-20 | Calcium | Lab analysis | Annually | 112.7 | 112.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Coliforms, Total | Lab analysis | Annually | 101.3 | 101.3 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-20 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Magnesium | Lab analysis | Annually | 19.7 | 19.7 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|----------------|-----------|----------|---------|------------|----------------------------|--------|----|
| 01/02/2017 | MW-20 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Phosphorous, Total | Lab analysis | Annually | 0.951 | 0.951 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Potassium | Lab analysis | Annually | 3.4 | 3.4 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Residue on Evaporation | Lab analysis | Annually | 1467 | 1467 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Sodium | Lab analysis | Annually | 26.4 | 26.4 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-20 | Total Oxidized Nitrogen | Lab analysis | Annually | 1.9 | 1.9 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-20 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.03 | 0.03 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Chloride | Lab analysis | Quarterly | 146 | 132.25 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Sulphate | Lab analysis | Quarterly | 45.7 | 39.25 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Total Organic Carbon | Lab analysis | Quarterly | 11 | 5.75 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Conductivity | Field analysis | Quarterly | 1.323 | 1.17175 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Dissolved Oxygen | Field analysis | Quarterly | 7 | 5.505 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Level, Water | Field analysis | Quarterly | 16.04 | 15.1125 | mOD | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Odour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | pH | Field analysis | Quarterly | 7.26 | 7.14 | pH | W0151-01 EPA Trigger Level | 6<pH<9 | no |

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|--|-------|------------------------|----------------|-----------|----------|---------|------------|----------------------------|-------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | MW-22 | Temperature | Field analysis | Quarterly | 13 | 12 | oC | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Alkalinity, Total | Lab analysis | Annually | 460 | 460 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Boron | Lab analysis | Annually | 0.016 | 0.016 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Cadmium | Lab analysis | Annually | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 | MW-22 | Calcium | Lab analysis | Annually | 173.3 | 173.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Chromium, Total | Lab analysis | Annually | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Coliforms, Faecal | Lab analysis | Annually | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Coliforms, Total | Lab analysis | Annually | #VALUE! | #VALUE! | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Copper | Lab analysis | Annually | 0.007 | 0.007 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 | MW-22 | Cyanide | Lab analysis | Annually | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Fluoride | Lab analysis | Annually | 0.3 | 0.3 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Iron | Lab analysis | Annually | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Lead | Lab analysis | Annually | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Magnesium | Lab analysis | Annually | 9.8 | 9.8 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Manganese | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Mercury | Lab analysis | Annually | 0.001 | 0.001 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Nickel | Lab analysis | Annually | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Orthophosphates | Lab analysis | Annually | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Phosphorous, Total | Lab analysis | Annually | 0.999 | 0.999 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Potassium | Lab analysis | Annually | 1.2 | 1.2 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Residue on Evaporation | Lab analysis | Annually | 1748 | 1748 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|-------|-------------------------|----------------|-----------|----------|-------------|------------|----------------------------|--------|----|
| 01/02/2017 | MW-22 | Sodium | Lab analysis | Annually | 80.8 | 80.8 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 | MW-22 | Total Oxidized Nitrogen | Lab analysis | Annually | 7.6 | 7.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 | MW-22 | Zinc | Lab analysis | Annually | 0.003 | 0.003 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Ammoniacal Nitrogen | Lab analysis | Quarterly | 0.03 | 0.03 | mg/l NH4-N | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Chloride | Lab analysis | Quarterly | 36.8 | 35.83333333 | mg/l | W0151-01 EPA Trigger Level | 70 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Phenols, Total | Lab analysis | Quarterly | 0.1 | 0.1 | mg/l | W0151-01 EPA Trigger Level | 0.1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Sulphate | Lab analysis | Quarterly | 43.6 | 38.46666667 | mg/l | W0151-01 EPA Trigger Level | 140 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Total Organic Carbon | Lab analysis | Quarterly | 4 | 2.666666667 | mg/l | W0151-01 EPA Trigger Level | 50 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Colour | Field analysis | Quarterly | #VALUE! | #VALUE! | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Conductivity | Field analysis | Quarterly | 0.764 | 0.6252 | mS/cm | W0151-01 EPA Trigger Level | 1 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Dissolved Oxygen | Field analysis | Quarterly | 9 | 8.05 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Odour | Field analysis | Quarterly | 0 | 0 | N/A | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | pH | Field analysis | Quarterly | 7.77 | 7.5775 | pH | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Temperature | Field analysis | Quarterly | 16.7 | 14.525 | oC | W0151-01 EPA Trigger Level | 6<pH<9 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Boron | Lab analysis | Quarterly | 0.043 | 0.043 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Cadmium | Lab analysis | Quarterly | 0.0005 | 0.0005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Calcium | Lab analysis | Quarterly | 118.6 | 118.6 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|------------------------|--------------|-----------|----------|--------|------------|----------------------------|-------|----|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Chromium, Total | Lab analysis | Quarterly | 0.0015 | 0.0015 | mg/l | W0151-01 EPA Trigger Level | 0.004 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Coliforms, Faecal | Lab analysis | Quarterly | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Coliforms, Total | Lab analysis | Quarterly | 1 | 1 | cfus/100ml | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Copper | Lab analysis | Quarterly | 0.16 | 0.16 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Cyanide | Lab analysis | Quarterly | 0.01 | 0.01 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Fluoride | Lab analysis | Quarterly | 0.4 | 0.4 | mg/l | W0151-01 EPA Trigger Level | 0.5 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Iron | Lab analysis | Quarterly | 0.02 | 0.02 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Lead | Lab analysis | Quarterly | 0.005 | 0.005 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Magnesium | Lab analysis | Quarterly | 0 | 0 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Manganese | Lab analysis | Quarterly | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Mercury | Lab analysis | Quarterly | 0 | 0 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Nickel | Lab analysis | Quarterly | 0.002 | 0.002 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Orthophosphates | Lab analysis | Quarterly | 0.06 | 0.06 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Phosphorous, Total | Lab analysis | Quarterly | 0.055 | 0.055 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Potassium | Lab analysis | Quarterly | 1 | 1 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Residue on Evaporation | Lab analysis | Quarterly | 415 | 415 | mg/l | W0151-01 EPA Trigger Level | N/A | no |

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|--|------|-------------------------|--------------|-----------|-------|-------|--------|----------------------------|-----|--------|
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Sodium | Lab analysis | Quarterly | 25.1 | 25.1 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Total Alkalinity | Lab analysis | Quarterly | 288 | 288 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Total Oxidized Nitrogen | Lab analysis | Quarterly | 1.4 | 1.4 | mg/l | W0151-01 EPA Trigger Level | 80 | no |
| 01/02/2017 26/06/2017 07/09/2017 05/12/2017 | PW-3 | Zinc | Lab analysis | Quarterly | 0.092 | 0.092 | mg/l | W0151-01 EPA Trigger Level | N/A | no |
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| | | | | | | | SELECT | | | SELECT |
| | | | | | | | SELECT | | | SELECT |

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

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

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

Table 3: Soil results

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

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

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

| | | | Commentary |
|----|---|---|-----------------------------------|
| 1 | ELRA initial agreement status | Submitted and not agreed by EPA; | |
| 2 | ELRA review status | Review required and not completed; | Review to be completed in Q2 2018 |
| 3 | Amount of Financial Provision cover required as determined by the latest ELRA | To be agreed | |
| 4 | Financial Provision for ELRA status | Submitted and not agreed by EPA; | |
| 5 | Financial Provision for ELRA - amount of cover | To be agreed | |
| 6 | Financial Provision for ELRA - type | Other please specify | To be agreed |
| 7 | Financial provision for ELRA expiry date | Enter expiry date | |
| 8 | Closure plan initial agreement status | sure plan submitted and not agreed by EPA | |
| 9 | Closure plan review status | Review required and not completed | Review to be completed in Q2 2018 |
| 10 | Financial Provision for Closure status | Submitted and not agreed by EPA; | |
| 11 | Financial Provision for Closure - amount of cover | To be agreed | |
| 12 | Financial Provision for Closure - type | Other please specify | To be agreed |
| 13 | Financial provision for Closure expiry date | Enter expiry date | |

| | | | | |
|---|---------|----------|------|------|
| Environmental Management Programme/Continuous Improvement Programme template | Lic No: | W0151-01 | Year | 2017 |
|---|---------|----------|------|------|

| | Highlighted cells contain dropdown menu click to view | | Additional Information |
|---|---|-----|------------------------|
| 1 | Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information | Yes | |
| 2 | Does the EMS reference the most significant environmental aspects and associated impacts on-site | Yes | |
| 3 | Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements | Yes | |
| 4 | Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence | Yes | |

Environmental Management Programme (EMP) report

| Objective Category | Target | Status (% completed) | How target was progressed | Responsibility | Intermediate outcomes |
|-------------------------------|--|----------------------|---------------------------|----------------|---|
| Groundwater protection | Ongoing monitoring and measurement - water | 100 | Monitoring Completed | Individual | Improved Environmental Management Practices |
| Noise reduction | Ongoing monitoring and measurement - noise | 100 | Monitoring Completed | Individual | Improved Environmental Management Practices |
| Reduction of emissions to Air | Ongoing monitoring and measurement -air | 100 | Monitoring Completed | Individual | Improved Environmental Management Practices |

Noise monitoring summary report

Lic No: W0151-01

Year

2017

1 Was noise monitoring a licence requirement for the AER period?

Yes

If yes please fill in table N1 noise summary below

2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?

[Noise Guidance note NG4](#)

Yes

3 Does your site have a noise reduction plan

No

4 When was the noise reduction plan last updated?

Enter date

5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since the last noise survey?

Yes

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)? |
|--------------------|-------------|--------------------------|---|------------------|------------------|------------------|-------------------|---------------------------------|---|--|--|
| 20/01/2017 | Daytime | N/A | NMP5 | 69 | 60 | 72 | 82 | No | No | Road traffic | Yes |
| 20/01/2017 | Daytime | N/A | NMP7 | 55 | 43 | 51 | 86 | No | No | Road traffic | Yes |
| 20/01/2017 | Daytime | N/A | NMP8 | 51 | 37 | 44 | 85 | No | No | | Yes |
| 20/01/2017 | Daytime | N/A | NMP13 | 58 | 53 | 61 | 83 | No | No | Road traffic | Yes |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

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

SELECT

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

Gravel washing commenced on site in May 2017

Resource Usage/Energy efficiency summary

Lic No:

W0151-01

Year

2017

| | | Additional information |
|---|--|---|
| 1 | When did the site carry out the most recent energy efficiency audit? Please list the recommendations in table 3 below | n/a |
| | 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 | completed; ongoing monitoring and management of energy use by |
| 2 | Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information | No |
| 3 | | SELECT |

| Table R1 Energy usage on site | | | | |
|--|---------------|--------------|--|--|
| Energy Use | Previous year | Current year | Production +/- % compared to previous reporting year** | Energy Consumption +/- % vs overall site production* |
| Total Energy Used (MWHrs) | 30.74 | 111.52 | 275% | |
| Total Energy Generated (MWHrs) | | | | |
| Total Renewable Energy Generated (MWHrs) | | | | |
| Electricity Consumption (MWHrs) | 30.6 | 111.5 | 264% | |
| Fossil Fuels Consumption: | | | | |
| Heavy Fuel Oil (m3) | 146 | 22 | -84% | |
| Light Fuel Oil (m3) | | | | |
| Natural gas (m3) | | | | |
| Coal/Solid fuel (metric tonnes) | | | | |
| Peat (metric tonnes) | | | | |
| Renewable Biomass | | | | |
| Renewable energy generated on site | | | | |

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

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

| Table R2 Water 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 | 81 | 165.55 | 104% | | | | |
| Recycled water | | | | | | | |
| Total | | | | | | | |

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

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

| Table R3 Waste Stream Summary | | | | | |
|-------------------------------|--------|----------|--------------|----------|-------|
| | Total | Landfill | Incineration | Recycled | Other |
| Hazardous (Tonnes) | 0.2425 | 0.1825 | | 0.06 | |
| Non-Hazardous (Tonnes) | | | | | |

| 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: W0151-01 Year 2017

| | | |
|--|--|------------------------|
| Complaints | | Additional information |
| Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below | | 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 | | | | | | | |
| Total new complaints received during reporting year | | | | | | | |
| Total complaints closed during reporting year | | | | | | | |
| Balance of complaints end of reporting year | | | | | | | |

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

| Table 2 Incidents summary | | | | | | | | | | | | | | |
|---|-----------------------|--|---|-------------------------|--------------------------------|-----------------------------|--|---------------|------------|----------------------------|-------------------------------|-------------------|-----------------|----------------------------|
| Date of occurrence | Incident nature | Location of occurrence | Incident category* please refer to guidance | Receptor | Cause of incident | Other cause(please specify) | Activity in progress at time of incident | Communication | Occurrence | Corrective action<20 words | Preventative action <20 words | Resolution status | Resolution date | Likelihood of reoccurrence |
| 01.02.17 | Trigger level reached | Other location (GW monitoring locations) | 1. Minor | No Uncontrolled release | Not related to site activities | Routine GW monitoring | Normal activities | EPA | Recurring | ongoing monitoring | | Complete | 01.02.17 | Medium |
| 26.06.17 | Trigger level reached | Other location (GW monitoring locations) | 1. Minor | No Uncontrolled release | Not related to site activities | Routine GW monitoring | Normal activities | EPA | Recurring | ongoing monitoring | | Complete | 26.06.17 | Medium |
| 25.08.17 | Trigger level reached | Other location (monitoring locations) | 1. Minor | No Uncontrolled release | Not related to site activities | Routine GW monitoring | Normal activities | EPA | Recurring | ongoing monitoring | | Complete | 25.08.17 | Medium |
| 05.12.17 | Trigger level reached | Other location (monitoring locations) | 1. Minor | No Uncontrolled release | Not related to site activities | Routine GW monitoring | Normal activities | EPA | Recurring | ongoing monitoring | | Complete | 05.12.17 | Medium |
| 25.08.17 | Trigger level reached | Other location (monitoring locations) | 1. Minor | No Uncontrolled release | Not related to site activities | Routine Gas monitoring | Normal activities | EPA | Recurring | ongoing monitoring | | Complete | 25.08.17 | Medium |
| 05.12.17 | Trigger level reached | Other location (monitoring locations) | 1. Minor | No Uncontrolled release | Not related to site activities | Routine Gas monitoring | Normal activities | EPA | Recurring | ongoing monitoring | | Complete | 05.12.17 | Medium |
| Total number of incidents current year | | | 6 | | | | | | | | | | | |
| Total number of incidents previous year | | | 7 | | | | | | | | | | | |
| % reduction/increase | | | -14% | | | | | | | | | | | |

| | | |
|---|-------------------------------------|------------------------------------|
| WASTE SUMMARY | Lic No: W0151-01 | Year: 2017 |
| SECTION A-PRTR ON SITE WASTE TREATMENT AND WASTE TRANSFERS TAB- TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES | PRTR facility logon | dropdown list click to see options |

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

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

| | |
|------------------------|--|
| Additional Information | |
| 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

| | |
|-----|--|
| N/A | |
| N/A | |

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

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

| Licensed annual tonnage limit for your site (total tonnes/annum) | EWC code European Waste Catalogue EWC codes | Source of waste accepted | Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code 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 - |
|--|--|--------------------------|--|---|--|--|---|--|---|---|------------|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

4 Is all waste processing infrastructure as required by your licence and approved by the Agency in place? If no please list waste processing infrastructure required onsite

| | |
|-----|--|
| Yes | |
| | |

5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site

| | |
|-----|---|
| Yes | |
| No | Only inert, non putrescable waste accepted on site; no waste accepted in 2017 |
| N/A | |

6 Does your facility have relevant nuisance controls in place?

7 Do you have an odour management system in place for your facility? If no why?

8 Do you maintain a sludge register on site?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

Table 2 Waste type and 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 |
|------------------------------------|--|--|---|--|
| Inert Waste | 738,000 | 0 | 249,000 | No waste accepted for recovery or disposal in 2017 |
| | | | | |
| | | | | |

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 | |
| Zone 6 | 2003 | 2016 | No | Private | inert | 2022 | No | No | No | | | | |

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

WASTE SUMMARY Lic No: W0151-01 Year: 2017

| | | | | | | | | |
|---|---|---|---|---|--|---|---|----------|
| Was meteorological monitoring in compliance with Landfill Directive (LD) standard in reporting year + | Was leachate monitored in compliance with LD standard in reporting year | Was Landfill Gas monitored in compliance with LD standard in reporting year | Was SW monitored in compliance with LD standard in reporting year | Have GW trigger levels been established | Were emission limit values agreed with the Agency (ELVs) | Was topography of the site surveyed in reporting year | Has the statement under SS3(A)(5) of WMA been submitted in reporting year | Comments |
| Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | |

-> 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 | |



| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Limited | Filename : PRTR W0151_2017.xls | Return Year : 2017 |

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[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

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

1. FACILITY IDENTIFICATION

| | |
|----------------------------|---------------------------------------|
| Parent Company Name | Murphy Concrete Manufacturing Limited |
| Facility Name | Murphy Concrete Manufacturing Limited |
| PRTR Identification Number | W0151 |
| Licence Number | W0151-01 |

Classes of Activity

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

| | |
|--|------------------------------|
| Address 1 | Sarsfieldtown |
| Address 2 | Gormanstown |
| Address 3 | |
| Address 4 | |
| | Meath |
| Country | Ireland |
| Coordinates of Location | -6.25153 53.654 |
| River Basin District | IEEA |
| NACE Code | 3832 |
| Main Economic Activity | Recovery of sorted materials |
| AER Returns Contact Name | Kerstie Flanagan |
| AER Returns Contact Email Address | kerstief@pateltonra.com |
| AER Returns Contact Position | Environmental Consultant |
| AER Returns Contact Telephone Number | 01 8020527 |
| AER Returns Contact Mobile Phone Number | 01 8020527 |
| AER Returns Contact Fax Number | 01 8020525 |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations | 0 |
| Number of Operating Hours in Year | 0 |
| Number of Employees | 8 |
| User Feedback/Comments | |
| Web Address | |

2. PRTR CLASS ACTIVITIES

| Activity Number | Activity Name |
|-----------------|---------------|
| 50.1 | General |
| 5(d) | Landfills |
| 50.1 | General |

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

| | |
|---|--|
| Is it applicable? | |
| Have you been granted an exemption ? | |
| If applicable which activity class applies (as per Schedule 2 of the regulations) ? | |
| Is the reduction scheme compliance route being used ? | |

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0151 | Facility Name : Murphy Concrete Manufacturing Limited | Filename : PRTR W0151_2017.xls | Return Year : 2017 |

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Please enter all quantities on this sheet in Tonnes

3

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | Method Used | | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility | Non | Haz Waste : Address of Next Destination Facility | Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY) | Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY) |
|----------------------|---------------------|-----------|----------------------------|-----------------------|---------------------------|--|--|-----------------------|---|-----|--|--|--|
| | | | | | | Haz Waste : Name and Licence/Permit No of Recover/Disposer | Non Haz Waste: Address of Recover/Disposer | | | | | | |
| Within the Country | 20 03 01 | No | 0.1825 | mixed municipal waste | D15 | E | Volume Calculation | Offsite in Ireland | Panda,W0140-03 | | Beauparc,Navan,Co. Meath,0,Ireland | | |
| Within the Country | 20 03 01 | No | 0.06 | mixed municipal waste | R3 | E | Volume Calculation | Offsite in Ireland | Panda,W0140-03 | | Beauparc,Navan,Co. Meath,0,Ireland | | |

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

[Link to previous years waste data](#)

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

[Link to Waste Guidance](#)