



Annual Return

WOLLONGONG CITY COUNCIL

Licence 5861

A. Statement of Compliance - Licence Details

ALL Licence holders must check that the Licence details in Section A are correct.

If there are changes to any of these details, you must advise Environment Protection Authority (EPA) and apply as soon as possible for a variation to your Licence or for a Licence transfer.

Licence variation and transfer application forms are available on the EPA website at:
<http://www.epa.nsw.gov.au/licensing-and-regulation/licensing> or from regional offices of the EPA, or by contacting by telephone 02 9995 5700.

If you are applying to vary or transfer your Licence, you must still complete and submit this Annual Return.

A1. Licence holder

Licence number : 5861
Licence holder : WOLLONGONG CITY COUNCIL
Trading name (if applicable) :
ABN : 63 139 525 939
ACN :
Reporting period : From: 29-5-2022 To: 28-5-2023

A2. Premises to which Licence Applies (if applicable)

Common name (if any) : HELENSBURGH WASTE DISPOSAL DEPOT
Premises : NIXON PLACE HELENSBURGH 2508 NSW

A3. Activities to which Licence Applies

Waste disposal (application to land)

A4. Other Activities (if applicable)

A5. Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

| Fee-based activity | Activity scale | Unit of measure |
|---------------------------------------|----------------|-----------------|
| Waste disposal by application to land | > 0.00 | capacity |

A6. Assessable Pollutants (if applicable)



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Note that the identification of assessable pollutants is used to calculate the **load-based fee**.
The following assessable pollutants are identified for the fee-based activity classifications in the licence:

B. Monitoring and Complaints Summary

B1. Number of Pollution Complaints

| Pollution Complaint Category | Complaints |
|--|------------|
| Air | 0 |
| Water | 0 |
| Noise | 0 |
| Waste | 0 |
| Other | 0 |
| Total complaints recorded by the licensee during the reporting period | 0 |

B2. Concentration Monitoring Summary

For each concentration monitoring point identified in your licence, details are displayed below. If concentration monitoring is not required by your licence, **no data** will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Discharge & Monitoring Point 1

Overflow drain, DP1 - Overflow from stormwater pond as specified in Drawing No 500 of City of W'gong, Helensburgh Waste Depot Ext, Leachate Disposal Syst, Site Plan, 10.11.95

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| pH | pH | | | | | |
| Total suspended solids | milligrams per litre | | | | | |

Monitoring Point 2

Leachate Dam, Leachate Dam



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| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Cobalt | milligrams per litre | | | | | |
| Conductivity | microsiemens per centimetre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| pH | pH | | | | | |
| Phosphorus (total) | milligrams per litre | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Total suspended solids | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 3

Landfill gas monitoring, Areas where intermediate or final cover has been placed

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Monitoring Point 4

Landfill gas monitoring, LFGMB1 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011



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| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Monitoring Point 5

Ground water monitoring, BH1 - bore hole as shown on Plan 20298/SK 02 Site Plan

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Cobalt | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| pH | pH | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 6

Groundwater monitoring, GWMB6 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011



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| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Cobalt | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Organophosphate pesticides | milligrams per litre | | | | | |
| pH | pH | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 7

Ground water monitoring, BH4 - bore hole as shown on Plan 20298/SK 02 Site Plan

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Cobalt | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| pH | pH | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |



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|------------------------------|----------------------|--|--|--|--|--|
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 8

Surface water monitoring, WCC ref - Pony Club as shown on Plan 20298/SK 02 Site Plan

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|------------------------|--|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Conductivity | microsiemens per centimetre | | | | | |
| Dissolved Oxygen | milligrams per litre | | | | | |
| Faecal Coliforms | colony forming units per 100 millilitres | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| pH | pH | | | | | |
| Potassium | milligrams per litre | | | | | |
| Redox potential | millivolts | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |

Monitoring Point 12

Groundwater monitoring, LFGMB1 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |



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|------------------------------|----------------------|--|--|--|--|--|--|
| Standing Water Level | metres | | | | | | |
| Sulfate | milligrams per litre | | | | | | |
| Toluene | milligrams per litre | | | | | | |
| Total dissolved solids | milligrams per litre | | | | | | |
| Total organic carbon | milligrams per litre | | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | | |
| Total Phenolics | milligrams per litre | | | | | | |
| Xylene | milligrams per litre | | | | | | |
| Zinc | milligrams per litre | | | | | | |

Monitoring Point 13

Groundwater monitoring, LFGMB2 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |



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Monitoring Point 14

Groundwater monitoring, LFGMB3 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |



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|----------------------------------|----------------------|--|--|--|--|--|
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 15

Groundwater monitoring, LFGMB4 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |



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| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |
| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |



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| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 16

Groundwater monitoring, GWMB5 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | | | | | |
| Aluminium | milligrams per litre | | | | | |
| Arsenic | milligrams per litre | | | | | |
| Barium | milligrams per litre | | | | | |
| Benzene | milligrams per litre | | | | | |
| Cadmium | milligrams per litre | | | | | |
| Calcium | milligrams per litre | | | | | |
| Chloride | milligrams per litre | | | | | |
| Chromium (hexavalent) | milligrams per litre | | | | | |
| Chromium (total) | milligrams per litre | | | | | |
| Copper | milligrams per litre | | | | | |
| Ethyl benzene | milligrams per litre | | | | | |
| Fluoride | milligrams per litre | | | | | |
| Lead | milligrams per litre | | | | | |



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| Magnesium | milligrams per litre | | | | | |
| Manganese | milligrams per litre | | | | | |
| Mercury | milligrams per litre | | | | | |
| Nitrate | milligrams per litre | | | | | |
| Nitrite | milligrams per litre | | | | | |
| Nitrogen (ammonia) | milligrams per litre | | | | | |
| Organochlorine pesticides | milligrams per litre | | | | | |
| Organophosphate pesticides | milligrams per litre | | | | | |
| Polycyclic aromatic hydrocarbons | milligrams per litre | | | | | |
| Potassium | milligrams per litre | | | | | |
| Sodium | milligrams per litre | | | | | |
| Standing Water Level | metres | | | | | |
| Sulfate | milligrams per litre | | | | | |
| Toluene | milligrams per litre | | | | | |
| Total dissolved solids | milligrams per litre | | | | | |
| Total organic carbon | milligrams per litre | | | | | |
| Total petroleum hydrocarbons | milligrams per litre | | | | | |
| Total Phenolics | milligrams per litre | | | | | |
| Xylene | milligrams per litre | | | | | |
| Zinc | milligrams per litre | | | | | |

Monitoring Point 17

Landfill Gas Monitoring, LGB5 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315656 N6216351). EPA Reference: DOC16/279048



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| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Monitoring Point 18

Landfill Gas Monitoring, LGB6 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315712 N6216262). EPA Reference: DOC16/279048

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Monitoring Point 19

Landfill Gas Monitoring, LGB7 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315748 N6216200). EPA Reference: DOC16/279048

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Monitoring Point 20

Landfill Gas Monitoring, LGB8 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315771 N6216116). EPA Reference: DOC16/279048

| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Monitoring Point 21

Landfill Gas Monitoring, LGB9 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315949 N6216094). EPA Reference: DOC16/279048



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| Pollutant | Unit of measure | No. of samples required | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | | | | | |

Name of the uploaded file containing point data ▼

Helensburgh Return DAta 2023.pdf

B2 Concentration Monitoring Comments

Monitoring results were compliant this reporting period.

B3. Volume or Mass Monitoring Summary

For each volume or mass monitoring point identified in your licence, details are displayed below. If volume or mass monitoring is not required by your licence, no data will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

Note that this does not exclude the need to conduct appropriate volume or mass monitoring of assessable pollutants are required by load-based licensing (if applicable).

C. Statement of Compliance - Licence Conditions

C1. Compliance with Licence Conditions

Were all conditions of the licence complied with (including monitoring and reporting requirements)?

Yes

D. Statement of Compliance - Load Based Fee Calculation

If you are not required to monitor assessable pollutants by your licence, no data will appear below.

If assessable pollutants have been identified on your licence, the following worksheets for each assessable pollutant will determine your load based fee for the licence fee period to which this Annual Return relates.

Loads of assessable pollutants must be calculated using any of the methods provided in EPA's Load Calculation Protocol for the relevant activity. A Load Calculation Protocol would have been already sent to you with your licence. If you require additional copies, you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.



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E. Statement of Compliance - Requirement to Prepare PIRMP

| | | |
|---|-----------|-----|
| Have you prepared a Pollution Incident Response Management Plan (PIRMP) as required under section 153A of the Protection of the Environment Operations (POEO) Act 1997? | | Yes |
| Is the PIRMP available at the premises? | | Yes |
| Is the PIRMP available in a prominent position on a publicly accessible website? | | Yes |
| Address of the web page where the PIRMP can be accessed ▼ | | |
| https://wollongong.nsw.gov.au/your-council/plans-and-reports/waste-site-reports | | |
| Has the PIRMP been tested? | | Yes |
| The PIRMP was last tested on | 12-9-2022 | |
| Has the PIRMP been updated? | | Yes |
| The PIRMP was last updated on | 14-9-2022 | |
| Number of times the PIRMP was activated in this reporting period? | | 0 |
| The PIRMP was activated on | n/a | |

F. Statement of Compliance - Requirement to Publish Pollution Monitoring Data

| | | |
|---|--|-----|
| Are there any conditions attached to your licence that require pollution monitoring to be undertaken as required under section 66(6) of the Protection of the Environment Operations (POEO) Act 1997? | | Yes |
| Do you operate a website? | | Yes |
| Is the pollution monitoring data published on your website in accordance with the EPA's written requirements for publishing pollution monitoring data? | | Yes |
| Address of the web page where the pollution monitoring data can be accessed ▼ | | |
| https://wollongong.nsw.gov.au/your-council/plans-and-reports/waste-site-reports | | |

G. Statement of Compliance - Environment Management System and Practices

| | | |
|---|--|----|
| Do you have an ISO 14001 certified Environmental Management System (EMS) OR any other system that EPA considers is equivalent to the accountability, procedures, documentation and record keeping requirements of an ISO 14001 certified EMS? | | No |
|---|--|----|



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| | |
|--|------------|
| Have you conducted an assessment of your activities and operations to identify the aspects that have a potential to cause environmental impacts and implemented operational controls to address these aspects? | Yes |
| Have you established and implemented an operational maintenance program, including preventative maintenance? | Yes |
| Do you keep records of regular inspections and maintenance of plant and equipment? | Yes |
| Do you conduct regular (at least yearly) environmental audits at the premises that are conducted by a competent and independent person? | Yes |
| Have you undertaken an independent environmental audit covering documented environmental practices, procedures and systems in place during the annual return period? | No |
| Have you established and implemented an environmental improvement or management plan? | Yes |
| Do you train staff in environmental issues that may arise from your activities and operations at the premises and keep records of this? | Yes |

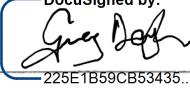
H. Signature and Certification

This Annual Return may only be signed by person(s) with legal authority to sign it as set out in following categories: an Individual, a Company, a Public authority or a Local council.

It is an offence under section 66 of the Protection of the Environment Operations Act 1997 to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of \$250,000 for a corporation and \$120,000 for an individual.

I/We

- declare that the information in the Monitoring and Complaints Summary in Section B of this Annual Return application is correct and not false or misleading in a material respect, and
- certify that the information in the Statement and Compliance in sections A, C, D, E, F, G and H and any other pages attached to Section C is correct and not false or misleading in a material respect.

| | |
|------------------|---|
| Signature | DocuSigned by:  225E1B59CB53435... |
| Name | Greg Doyle |
| Position | General Manager |
| Date | 25 August 2023 |



Annual Return

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License 5861

Declaration

I declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and

I certify that the information in the Statement of Compliance in section A,C,D,E,F and G and any pages attached to Section C is correct and not false or misleading in a material respect.

Helensburgh
Concentration Monitoring
Summary 29/5/2022 -

B2

28/5/2023

For each monitoring point identified in your licence complete all the details for each pollutants listed in the tables provided below

| Discharge & Monitoring Point 1 | | | | | | |
|--|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Overflow drain, DP1 - Overflow from stormwater pond as specified in Drawing No 500 of City of W'gong, Helensburgh Waste Depot Ext, Leachate Disposal Syst, Site Plan, 10.11.95 | | | | | | |
| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| pH | pH | | | | | |
| Total suspended solids | milligrams per litre | Daily during any discharge | 0 | NA | NA | NA |

| Monitoring Point 12 | | | | | | |
|---|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Groundwater monitoring, LFGMB1 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste | | | | | | |
| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | 45 | 94 | 140 |
| Aluminium | milligrams per litre | 1 | 1 | 1.86 | 1.86 | 1.86 |
| Arsenic | milligrams per litre | 1 | 1 | 0.002 | 0.002 | 0.002 |
| Barium | milligrams per litre | 1 | 1 | 0.043 | 0.043 | 0.043 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Calcium | milligrams per litre | 4 | 4 | 24 | 35 | 48 |
| Chloride | milligrams per litre | 4 | 4 | 18 | 20 | 24 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | 0.001 | 0.001 | 0.001 |
| Copper | milligrams per litre | 1 | 1 | 0.003 | 0.003 | 0.003 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | <0.1 | <0.1 | <0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.002 | 0.002 | 0.002 |
| Magnesium | milligrams per litre | 4 | 4 | 9 | 11.75 | 13 |
| Manganese | micrograms per litre | 1 | 1 | 0.015 | 0.015 | 0.015 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.17 | 0.17 | 0.17 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.0025 | 0.01 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Polycyclic aromatic hydrocarbons | micrograms per litre | 1 | 1 | 4.7 | 4.7 | 4.7 |
| Potassium | milligrams per litre | 4 | 4 | <1 | 0.5 | 1 |
| Sodium | milligrams per litre | 4 | 4 | 16 | 17.75 | 22 |
| Standing Water Level | metres | 4 | 4 | 1.43 | 2.4625 | 4.77 |
| Sulfate | milligrams per litre | 4 | 4 | 32 | 42.75 | 53 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 147 | 206.5 | 263 |
| Total organic carbon | milligrams per litre | 4 | 4 | 3 | 6 | 9 |
| Total petroleum hydrocarbons | micrograms per litre | 1 | 1 | <100 | 715 | 1920 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.021 | 0.021 | 0.021 |

| Monitoring Point 13 | | | | | | |
|---|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Groundwater monitoring, LFGMB2 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste | | | | | | |
| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | 6 | 27 | 72 |
| Aluminium | milligrams per litre | 1 | 1 | 51.5 | 51.5 | 51.5 |
| Arsenic | milligrams per litre | 1 | 1 | 0.004 | 0.004 | 0.004 |
| Barium | milligrams per litre | 1 | 1 | 0.044 | 0.044 | 0.044 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Calcium | milligrams per litre | 4 | 4 | 9 | 17.25 | 28 |
| Chloride | milligrams per litre | 4 | 4 | 24 | 29.75 | 35 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | 0.076 | 0.076 | 0.076 |
| Copper | milligrams per litre | 1 | 1 | 0.016 | 0.016 | 0.016 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | <0.1 | <0.1 | <0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.023 | 0.023 | 0.023 |
| Magnesium | milligrams per litre | 4 | 4 | 5 | 7.25 | 8 |
| Manganese | micrograms per litre | 1 | 1 | 0.024 | 0.024 | 0.024 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.01 | 0.01 | 0.01 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.0375 | 0.13 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Polycyclic aromatic hydrocarbons | micrograms per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | 2 | 3.75 | 5 |
| Sodium | milligrams per litre | 4 | 4 | 11 | 16.75 | 20 |
| Standing Water Level | metres | 4 | 4 | 1.60 | 2.19 | 2.81 |
| Sulfate | milligrams per litre | 4 | 4 | 8 | 30.5 | 38 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 133 | 207.25 | 352 |
| Total organic carbon | milligrams per litre | 4 | 4 | 3 | 4.5 | 7 |
| Total petroleum hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.048 | 0.048 | 0.048 |

Monitoring Point 14

Groundwater monitoring, LFGMB3 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste"

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | 10 | 13.75 | 17 |
| Aluminium | milligrams per litre | 1 | 1 | 4.02 | 4.02 | 4.02 |
| Arsenic | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Barium | milligrams per litre | 1 | 1 | 0.014 | 0.014 | 0.014 |
| Benzene | milligrams per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | 0.0001 | 0.0001 | 0.0001 |
| Calcium | milligrams per litre | 4 | 4 | 5 | 7 | 8 |
| Chloride | milligrams per litre | 4 | 4 | 13 | 22.5 | 32 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | 0.005 | 0.005 | 0.005 |
| Copper | milligrams per litre | 1 | 1 | 0.003 | 0.003 | 0.003 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | <0.1 | <0.1 | <0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.003 | 0.003 | 0.003 |
| Magnesium | milligrams per litre | 4 | 4 | 2 | 3 | 4 |
| Manganese | micrograms per litre | 1 | 1 | 0.010 | 0.01 | 0.010 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.57 | 0.57 | 0.57 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | 0.02 | 0.0525 | 0.07 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Polycyclic aromatic hydrocarbons | milligrams per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | 2 | 3 | 4 |
| Sodium | milligrams per litre | 4 | 4 | 10 | 13 | 16 |
| Standing Water Level | metres | 4 | 4 | 1.88 | 2.495 | 3.68 |
| Sulfate | milligrams per litre | 4 | 4 | 12 | 13.75 | 16 |
| Toluene | milligrams per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 57 | 75.75 | 96 |
| Total organic carbon | milligrams per litre | 4 | 4 | 1 | 1.5 | 2 |
| Total petroleum hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | milligrams per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.027 | 0.027 | 0.027 |

Monitoring Point 15

Groundwater monitoring, LFGMB4 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | 7 | 9.75 | 14 |
| Aluminium | milligrams per litre | 1 | 1 | 9.78 | 9.78 | 9.78 |
| Arsenic | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Barium | milligrams per litre | 1 | 1 | 0.008 | 0.008 | 0.008 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | 0.0001 | 0.0001 | 0.0001 |
| Calcium | milligrams per litre | 4 | 4 | 7 | 8.25 | 10 |
| Chloride | milligrams per litre | 4 | 4 | 11 | 13.5 | 16 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | 0.011 | 0.011 | 0.011 |
| Copper | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | <0.1 | <0.1 | <0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.005 | 0.005 | 0.005 |
| Magnesium | milligrams per litre | 4 | 4 | 2 | 3 | 4 |
| Manganese | micrograms per litre | 1 | 1 | 0.029 | 0.029 | 0.029 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.50 | 0.5 | 0.50 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.0125 | 0.05 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Polycyclic aromatic hydrocarbons | micrograms per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | 11 | 13.75 | 15 |
| Sodium | milligrams per litre | 4 | 4 | 8 | 10.5 | 13 |
| Standing Water Level | | 4 | 4 | 1.46 | 1.8375 | 2.40 |
| Sulfate | milligrams per litre | 4 | 4 | 29 | 34.75 | 39 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 94 | 111.5 | 132 |
| Total organic carbon | milligrams per litre | 4 | 4 | <1 | 2.5 | 4 |
| Total petroleum hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.011 | 0.011 | 0.011 |

Monitoring Point 16

Groundwater monitoring, GWMB5 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | <1 | 5.25 | 10 |
| Aluminium | milligrams per litre | 1 | 1 | 0.42 | 0.42 | 0.42 |
| Arsenic | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Barium | milligrams per litre | 1 | 1 | 0.008 | 0.008 | 0.008 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Calcium | milligrams per litre | 4 | 4 | 4 | 4.75 | 6 |
| Chloride | milligrams per litre | 4 | 4 | 39 | 41.75 | 44 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Copper | milligrams per litre | 1 | 1 | 0.002 | 0.002 | 0.002 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | <0.1 | <0.1 | <0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.001 | 0.001 | 0.001 |
| Magnesium | milligrams per litre | 4 | 4 | 5 | 5.25 | 6 |
| Manganese | micrograms per litre | 1 | 1 | 0.150 | 0.15 | 0.150 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.0025 | 0.01 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Polycyclic aromatic hydrocarbons | micrograms per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | <1 | 0.75 | 2 |
| Sodium | milligrams per litre | 4 | 4 | 25 | 25.75 | 26 |
| Standing Water Level | metres | 4 | 4 | 2.28 | 4.4 | 7.32 |
| Sulfate | milligrams per litre | 4 | 4 | 23 | 25 | 28 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 112 | 122.25 | 133 |
| Total organic carbon | milligrams per litre | 4 | 4 | <1 | 1.25 | 2 |
| Total petroleum hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.022 | 0.022 | 0.022 |

Monitoring Point 17

Landfill Gas Monitoring, LGB5 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 1 | <0.1 | <0.1 | <0.1 |

Monitoring Point 18

(E315712 N6216262), EPA Reference: DOC16/279048

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 1 | <0.1 | <0.1 | <0.1 |

Monitoring Point 19

Landfill Gas Monitoring, LGB7 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 1 | <0.1 | <0.1 | <0.1 |

Monitoring Point 2

Leachate Dam, Leachate Dam

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as Calcium Carbonate) | milligrams per litre | 1 | 1 | 898 | 898 | 898 |
| Aluminium | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Arsenic | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Barium | milligrams per litre | 1 | 1 | 0.319 | 0.319 | 0.319 |
| Benzene | microgram per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | 0.0001 | 0.0001 | 0.0001 |
| Calcium | milligrams per litre | 1 | 1 | 126 | 126 | 126 |
| Chloride | milligrams per litre | 1 | 1 | 55 | 55 | 55 |
| Chromium (Hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (Total) | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Cobalt | milligrams per litre | 1 | 1 | 0.002 | 0.002 | 0.002 |
| Conductivity | microsiemens per centimeter | 4 | 4 | 1570 | 1867.5 | 2160 |
| Copper | milligrams per litre | 1 | 1 | 0.011 | 0.011 | 0.011 |
| Ethyl Benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | 0.2 | 0.2 | 0.2 |
| Lead | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Magnesium | milligrams per litre | 1 | 1 | 57 | 57 | 57 |
| Manganese | milligrams per litre | 1 | 1 | 0.371 | 0.371 | 0.371 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 6.22 | 6.22 | 6.22 |
| Nitrite | milligrams per litre | 1 | 1 | 0.04 | 0.04 | 0.04 |
| Nitrogen (Ammonia) | milligrams per litre | 1 | 1 | 27.4 | 27.4 | 27.4 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| pH | pH | 1 | 1 | 7.1 | 7.1 | 7.1 |
| Phosphorus (Total) | milligrams per litre | 1 | 1 | 0.04 | 0.04 | 0.04 |
| Polycyclic Aromatic Hydrocarbons | micrograms per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |

| | | | | | | |
|------------------------------|----------------------|---|---|-------|-------|-------|
| Potassium | milligrams per litre | 1 | 1 | 46 | 46 | 46 |
| Sodium | milligrams per litre | 1 | 1 | 157 | 157 | 157 |
| Sulfate | milligrams per litre | 1 | 1 | 29 | 29 | 29 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total Dissolved Solids | milligrams per litre | 1 | 1 | 947 | 947 | 947 |
| Total Organic Carbon | milligrams per litre | 1 | 1 | 18 | 18 | 18 |
| Total Petroleum Hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Total Suspended Solids | milligrams per litre | 1 | 1 | <5 | <5 | <5 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.034 | 0.034 | 0.034 |

Monitoring Point 20

Landfill Gas Monitoring, LGB8 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315771 N6216116). EPA Reference: DOC16/279048

| Pollutant | Unit of Measure | required by licence | collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|---------------------|------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 1 | <0.1 | <0.1 | <0.1 |

Monitoring Point 21

Landfill Gas Monitoring, LGB9 - "Former Helensburgh Waste Depot Landfill Gas Bore Completion Report", Meinhardt, December 2015 (E315949 N6216094). EPA Reference: DOC16/279048

| Pollutant | Unit of Measure | required by licence | collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|---------------------|------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 1 | <0.1 | <0.1 | <0.1 |

Monitoring Point 3

Landfill gas monitoring, Areas where intermediate or final cover has been placed

| Pollutant | Unit of Measure | NO. OF samples required by licence | NO. OF samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|------------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 1 | 0.00008 | 0.00018595 | 0.00075 |

Monitoring Point 4

Landfill gas monitoring, LFGMB1 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------|-------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Methane | percent by volume | 1 | 4 | <0.1 | <0.1 | <0.1 |

Monitoring Point 5

Ground water monitoring, BH1 - bore hole as shown on Plan 20298/SK 02 Site Plan

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | 2 | 13.5 | 26 |
| Aluminium | milligrams per litre | 1 | 1 | 1.65 | 1.65 | 1.65 |
| Arsenic | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Barium | milligrams per litre | 1 | 1 | 0.028 | 0.028 | 0.028 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Calcium | milligrams per litre | 4 | 4 | 12 | 15.5 | 19 |
| Chloride | milligrams per litre | 4 | 4 | 49 | 95.75 | 148 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Cobalt | milligrams per litre | 1 | 1 | 0.003 | 0.003 | 0.003 |
| Copper | milligrams per litre | 1 | 1 | 0.002 | 0.002 | 0.002 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | <0.1 | <0.1 | <0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.003 | 0.003 | 0.003 |
| Magnesium | milligrams per litre | 4 | 4 | 11 | 14.25 | 17 |
| Manganese | micrograms per litre | 1 | 1 | 0.229 | 0.229 | 0.229 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.16 | 0.16 | 0.16 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.2125 | 0.51 |
| Organochlorine pesticides | micrograms per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | micrograms per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| pH | pH | 4 | 4 | 4.4 | 4.975 | 5.4 |
| Polycyclic aromatic hydrocarbons | micrograms per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | <1 | 0.25 | 1 |
| Sodium | milligrams per litre | 4 | 4 | 37 | 54.5 | 67 |
| Standing Water Level | metres | 4 | 4 | 2.48 | 3.29 | 4.88 |
| Sulfate | milligrams per litre | 4 | 4 | 46 | 74.25 | 115 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 213 | 291.75 | 338 |
| Total organic carbon | milligrams per litre | 4 | 4 | 2 | 3.5 | 6 |
| Total petroleum hydrocarbons | micrograms per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.199 | 0.199 | 0.199 |

Monitoring Point 6

Groundwater monitoring, GWMB6 - "Well Locations - Installation of Groundwater and Gas Monitoring Wells - Helensburgh Waste Facility, Nixon Place, Helensburgh", Douglas Partners, December 2011

| Pollutant | Unit of Measure | No. of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|------------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | 146 | 203.5 | 262 |
| Aluminium | milligrams per litre | 1 | 1 | 18.1 | 18.1 | 18.1 |
| Arsenic | milligrams per litre | 1 | 1 | 0.021 | 0.021 | 0.021 |
| Barium | milligrams per litre | 1 | 1 | 0.330 | 0.33 | 0.330 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | 0.0005 | 0.0005 | 0.0005 |
| Calcium | milligrams per litre | 4 | 4 | 46 | 50.25 | 61 |
| Chloride | milligrams per litre | 4 | 4 | 10 | 16 | 20 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | 0.088 | 0.088 | 0.088 |
| Cobalt | milligrams per litre | 1 | 1 | 0.020 | 0.02 | 0.020 |
| Copper | | 1 | 1 | 0.043 | 0.043 | 0.043 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | 0.1 | 0.1 | 0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.041 | 0.041 | 0.041 |
| Magnesium | milligrams per litre | 4 | 4 | 20 | 23.5 | 28 |
| Manganese | micrograms per litre | 1 | 1 | 0.418 | 0.418 | 0.418 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.02 | 0.02 | 0.02 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.035 | 0.06 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| pH | pH | 4 | 4 | 6.5 | 6.65 | 7.1 |
| Polycyclic aromatic hydrocarbons | micrograms per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | 5 | 5.75 | 7 |
| Sodium | milligrams per litre | 4 | 4 | 16 | 17.5 | 18 |
| Standing Water Level | metres | 4 | 4 | 1.74 | 3 | 4.15 |
| Sulfate | milligrams per litre | 4 | 4 | <1 | 10 | 26 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 257 | 277.75 | 304 |
| Total organic carbon | milligrams per litre | 4 | 4 | 8 | 9.25 | 10 |
| Total petroleum hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.064 | 0.064 | 0.064 |

Monitoring Point 7

Ground water monitoring, BH4 - bore hole as shown on Plan 20298/SK 02 Site Plan

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Alkalinity (as calcium carbonate) | milligrams per litre | 4 | 4 | <1 | 4.5 | 9 |
| Aluminium | milligrams per litre | 1 | 1 | 2.49 | 2.49 | 2.49 |
| Arsenic | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Barium | milligrams per litre | 1 | 1 | 0.018 | 0.018 | 0.018 |
| Benzene | micrograms per litre | 1 | 1 | <1 | <1 | <1 |
| Cadmium | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Calcium | milligrams per litre | 4 | 4 | <1 | 0.25 | 1 |
| Chloride | milligrams per litre | 4 | 4 | 135 | 151.25 | 172 |
| Chromium (hexavalent) | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Chromium (total) | milligrams per litre | 1 | 1 | <0.001 | <0.001 | <0.001 |
| Cobalt | milligrams per litre | 1 | 1 | 0.001 | 0.001 | 0.001 |
| Copper | milligrams per litre | 1 | 1 | 0.002 | 0.002 | 0.002 |
| Ethyl benzene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Fluoride | milligrams per litre | 1 | 1 | 0.1 | 0.1 | 0.1 |
| Lead | milligrams per litre | 1 | 1 | 0.003 | 0.003 | 0.003 |
| Magnesium | milligrams per litre | 4 | 4 | 5 | 6 | 7 |
| Manganese | micrograms per litre | 1 | 1 | 0.044 | 0.044 | 0.044 |
| Mercury | milligrams per litre | 1 | 1 | <0.0001 | <0.0001 | <0.0001 |
| Nitrate | milligrams per litre | 1 | 1 | 0.70 | 0.7 | 0.70 |
| Nitrite | milligrams per litre | 1 | 1 | <0.01 | <0.01 | <0.01 |
| Nitrogen (ammonia) | milligrams per litre | 4 | 4 | <0.01 | 0.0625 | 0.16 |
| Organochlorine pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| Organophosphate pesticides | milligrams per litre | 1 | 1 | <0.5 | <2.0 | <2.0 |
| pH | pH | 4 | 4 | 4.0 | 4.425 | 5.0 |
| Polycyclic aromatic hydrocarbons | milligrams per litre | 1 | 1 | <0.5 | <0.5 | <0.5 |
| Potassium | milligrams per litre | 4 | 4 | <1 | 0.75 | 1 |
| Sodium | milligrams per litre | 4 | 4 | 106 | 117.75 | 127 |
| Standing Water Level | metres | 4 | 4 | 1.66 | 2.3625 | 3.42 |
| Sulfate | milligrams per litre | 4 | 4 | 71 | 89.75 | 104 |
| Toluene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Total dissolved solids | milligrams per litre | 4 | 4 | 338 | 370.25 | 383 |
| Total organic carbon | milligrams per litre | 4 | 4 | 2 | 3 | 4 |
| Total petroleum hydrocarbons | milligrams per litre | 1 | 1 | <100 | <50 | <50 |
| Total Phenolics | milligrams per litre | 1 | 1 | <0.05 | <0.05 | <0.05 |
| Xylene | micrograms per litre | 1 | 1 | <2 | <2 | <2 |
| Zinc | milligrams per litre | 1 | 1 | 0.046 | 0.046 | 0.046 |

Monitoring Point 8

Surface water monitoring, WCC ref - Pony Club as shown on Plan 20298/SK 02 Site Plan

| Pollutant | Unit of Measure | No of samples required by licence | No. of samples collected and analysed | Lowest sample value | Mean of sample | Highest sample value |
|------------------------|--|-----------------------------------|---------------------------------------|---------------------|----------------|----------------------|
| Conductivity | microsiemens per centimeter | 4 | 4 | 589 | 1022.25 | 1680 |
| Dissolved Oxygen | milligrams per litre | 4 | 4 | 4.34 | 13.2425 | 23.6 |
| Faecal Coliforms | colony forming units per 100 millilitres | 4 | 4 | ~2 | 108 | 340 |
| Nitrogen (Ammonia) | milligrams per litre | 4 | 4 | 0.13 | 13.795 | 33.0 |
| pH | pH | 4 | 4 | 7.3 | 7.95 | 9.4 |
| Potassium | milligrams per litre | 4 | 4 | 21 | 32.75 | 48 |
| Redox Potential | millivolts | 4 | 4 | 152 | 195.5 | 233 |
| Total Dissolved Solids | milligrams per litre | 4 | 4 | 325 | 541.75 | 849 |
| Total Organic Carbon | milligrams per litre | 4 | 4 | 15 | 29.25 | 50 |