ARUP

**Blaenau Gwent County Borough Council**

# Silent Valley Landfill

## 2025 Third Quarter Monitoring Report

Reference: 4-50

Issue 01 | 31 October 2025



Job number 115825-00

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# Document Verification

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Issue Document Verification with Document ✓

# Contents



## Appendices

# 1. Introduction

This 2025 third quarter monitoring report presents the surface water, groundwater, landfill gas and leachate results for the monitoring undertaken in the period July to September 2025 in accordance with Silent Valley Environmental Permit [1] (Permit no. MP3835SV) and the Aftercare Phase Environmental and Infrastructure Monitoring Program (APEIMP) [5].

The data has been collected as referenced in Schedule 3 of the Consolidated Permit [1]. This report refers to the 2025 second quarter monitoring report [3].

## 1.1 Monitoring Regime

The monitoring regime is undertaken in accordance with the APEIMP [5] and in line with the Consolidated Permit [1], which is fully detailed within the 2019 Annual Report [2].

# 2. Discussion of Monitoring Results

## 2.1 Rainfall

Measured rainfall data is illustrated in **Appendix A, Figures A1 and A2.**

Based on the available data, the following summary has been provided:

- September recorded the highest rainfall for the quarter, with 134.6mm, which is above average for this time of year (86mm). 20th September also recorded the highest daily rainfall of the quarter, with 13.6mm.
- July was the driest month of the quarter, recording 39mm which falls below average for the time of year (79mm).
- The most consecutive days without rainfall occurred from 15th to 25th August. In addition, August recorded a total of 19 days within the month without any precipitation.

To note the rainfall for the quarter was low compared with previous years.

## 2.2 Leachate

### 2.2.1 Leachate Quality Monitoring

Leachate quality monitoring results from within the waste body and from leachate standpipes are presented in **Appendix B, Table B1**.

To assess compliance, the Allowable Maximum Concentrations (AMC) are compared with the overall average concentrations from all combined wells. If the AMC levels are exceeded, contingency actions are triggered.

No quarterly average leachate levels exceeded the AMC therefore these wells are compliant with the Permit[1].

### 2.2.2 Leachate Level Monitoring

Leachate head monitoring results are presented in **Appendix A, Figure A2** and **Appendix B, Table B2.** There were no significant changes in leachate head from the last quarter and the monthly average level for all the wells remains below the required 3.0m, as required by the Permit [1] .

### 2.2.3 BSC Pipe

Leachate head measurements are undertaken in BH1 to BH4 which are located along the alignment of the BSC pipe. Leachate levels have remained relatively consistent indicating no rise in leachate levels therefore the pipe is working as required. Results are included **Appendix A Figure A7** and **Appendix B Table B6.**

## 2.3 Surface Water

The surface water quality monitoring results are presented in **Appendix B, Table B3**, and graphically in **Appendix A, Figure A3.**

Commentaries are provided for upstream and downstream monitoring points in the Nant Merddog as discussed below.

### 2.3.1 Upstream Surface Water

Surface water monitoring locations, SWU, SW2A1, SWW4, SWW1 and SWW2 are located upstream of the landfill and monitored on a six-monthly basis in accordance with the Permit requirements. These locations are not monitored this quarter.

### 2.3.2 Downstream Surface Water

#### *SWD and SWD1*

Results show both SWD and SWD1 are compliant this quarter.

## 2.4 Groundwater

### 2.4.1 Groundwater Quality Monitoring

Groundwater quality monitoring results are presented in **Appendix A, Figures A4 and A5** and in **Appendix B, Table B4.**

Any non-compliances are discussed in the following sections.

#### *2.4.1.1 Upstream Groundwater Wells*

The monitoring of upstream wells is undertaken to understand the groundwater quality upstream of the landfill. These wells provide insight to any potential contaminants that may originate from off-site sources, which may impact groundwater quality.

#### *Wells GW3A and GW4*

GW3A and GW4 monitor the sandstone strata classified as S3-East.

GW3A analyses have not shown any elevated species this quarter.

GW4 indicated the presence of manganese in the upstream groundwater at 1.39mg/l which is above the downstream assessment level of 1.0mg/l. The concentration has decreased from last quarter (1.6mg/l).

Considering GW3 and GW4 are upstream, these groundwater wells are monitoring background concentrations.

#### *2.4.1.2 Downstream Groundwater Wells*

The results from the downstream groundwater monitoring wells indicate that generally the pumping system at the toe of the landfill is continuing to successfully control the potential egress of leachate from the landfill. No issues associated with pump failure within the cut-off system have been recorded during 2024 and 2025.

#### *Wells GW6 and GW7*

GW6 and GW7 have been installed in the centre of the valley in the sandstone strata classified as S1 and are compliant this quarter.

#### *Well GW9*

GW9 is installed in the sandstone strata classified as S2-East and is compliant this quarter.

#### *Well GW10*

GW10 has been installed in the sandstone strata classified as S3-East.

GW10 is compliant this quarter.

#### *Well GW12*

GW12 has been installed in the sandstone strata classified as S2-West and has remained compliant this quarter.

### 2.4.2 Groundwater Levels Monitoring

Groundwater levels are monitored on a quarterly basis in the compliance and upstream wells. The monitoring results are illustrated graphically in **Appendix A, Figure A6**. Water levels have remained relatively consistent this quarter with no significant differences from the 2024 readings [3].

## 2.5 Landfill Gas

### 2.5.1 Methane

The landfill gas monitoring results are presented in **Appendix B, Table B5.**

Methane concentrations have continued to remain below the respective control and trigger levels (where applicable) across all monitoring locations this quarter, with the exception of GMW2 at the yellow valve, which recorded a concentration of 19.8%v/v in July, exceeding the trigger level of 0.5%v/v. This reading is unusually high for the valve, where concentrations have consistently remained below both control and trigger thresholds throughout 2024 and 2025. Concentrations in August and September subsequently dropped to 0.0%v/v. It is probable that the July reading was erroneous and does not indicate a genuine methane issue, however, should this exceedance recur in the future further assessment will be undertaken.

### 2.5.2 Carbon Dioxide

Carbon dioxide is monitored in accordance with the AEPIMP [1] however as there are no limits set within the Permit with respect to carbon dioxide only commentary on monitored concentrations is provided below.

- GMW2 red valve: indicates concentrations up to 2.1%v/v in August .
- GMW3 yellow valve: indicates concentrations up to 2.3%v/v in July. This is a decrease from June.
- GMW4 red valve: indicates concentrations up to 2.9%v/v in July. Levels decreased in August and September.
- GMW6 red valve: indicates concentrations up to 4.9%v/v in August.
- GMW7 yellow and white valves: indicates concentrations up to 4.5%v/v in July, and white of 2.3%v/v in July.
- GMW12 yellow valve: indicates concentrations up to 2.9%v/v in September.
- GMW13 yellow valve: concentrations have decreased from the previous quarter but remain up to 5.6%v/v. Concentrations have been decreasing throughout the past two quarters.
- GMW14/14A red and yellow valves: indicates concentrations up to 1.3%v/v in August in the red valve and in the yellow valve 5.4%v/v in July.

# 3. Conclusion

The monitoring data and interpretation produced in this report has not identified any non-compliances with respect to leachate and groundwater for the second quarter of this year's monitoring. Therefore, the landfill continues to comply with the requirements of the Permit.

# References

[1] Environment Agency, Silent Valley Landfill Site, Pollution Prevention and Control (England and Wales) Regulations 2000, Landfill (England and Wales) Regulations 2002, Permit number MP3835SV, November 2005, Permit amended as of 04/03/16.

[2] Arup, Silent Valley Landfill, 2019 Annual Monitoring Report, 31st January 2020.

[3] Arup, Silent Valley Landfill, 2025 Second Quarter Monitoring Report, 31st July 2025.

[4] Arup, Silent Valley Landfill, Interim GW9 and Nant Merddog W, Issue May 2015.

[5] Arup, Silent Valley Landfill, Aftercare Phase Environmental and Infrastructure Monitoring Program, Issue June 2013.

[6] Arup, Silent Valley Landfill, Hydrogeological Risk Assessment, document reference 04/6363, November 2004.

[7] Arup, Silent Valley Landfill, Investigation into the Western Flank of the Cut-off System. Compliance Well GW9 and GW10, document reference 115825, August 2011.

[8] Environment Agency, Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water, report reference LFTGN02, June 2014.

[9] Arup, Silent Valley Landfill, Hydrogeological Risk Assessment (Supplementary Revision May 2009), document reference 09/7543, June 2009.

[10] Environment Agency, Guidance on the management of landfill gas, document reference LFTGN03, June 2014.

[11] The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

[12] Water Framework Directive - United Kingdom Technical Advisory Group (WFD-UKTAG), “Metal Bioavailability Assessment Tool (M-BAT),” 2014.

[13] Arup, Silent Valley Landfill, Hydrogeological Risk assessment, document reference 2019/9559, July 2019.

[14] Golder Associates, Establishment of Trigger Levels at Silent Valley landfill site, letter report dated 21 December 2006.

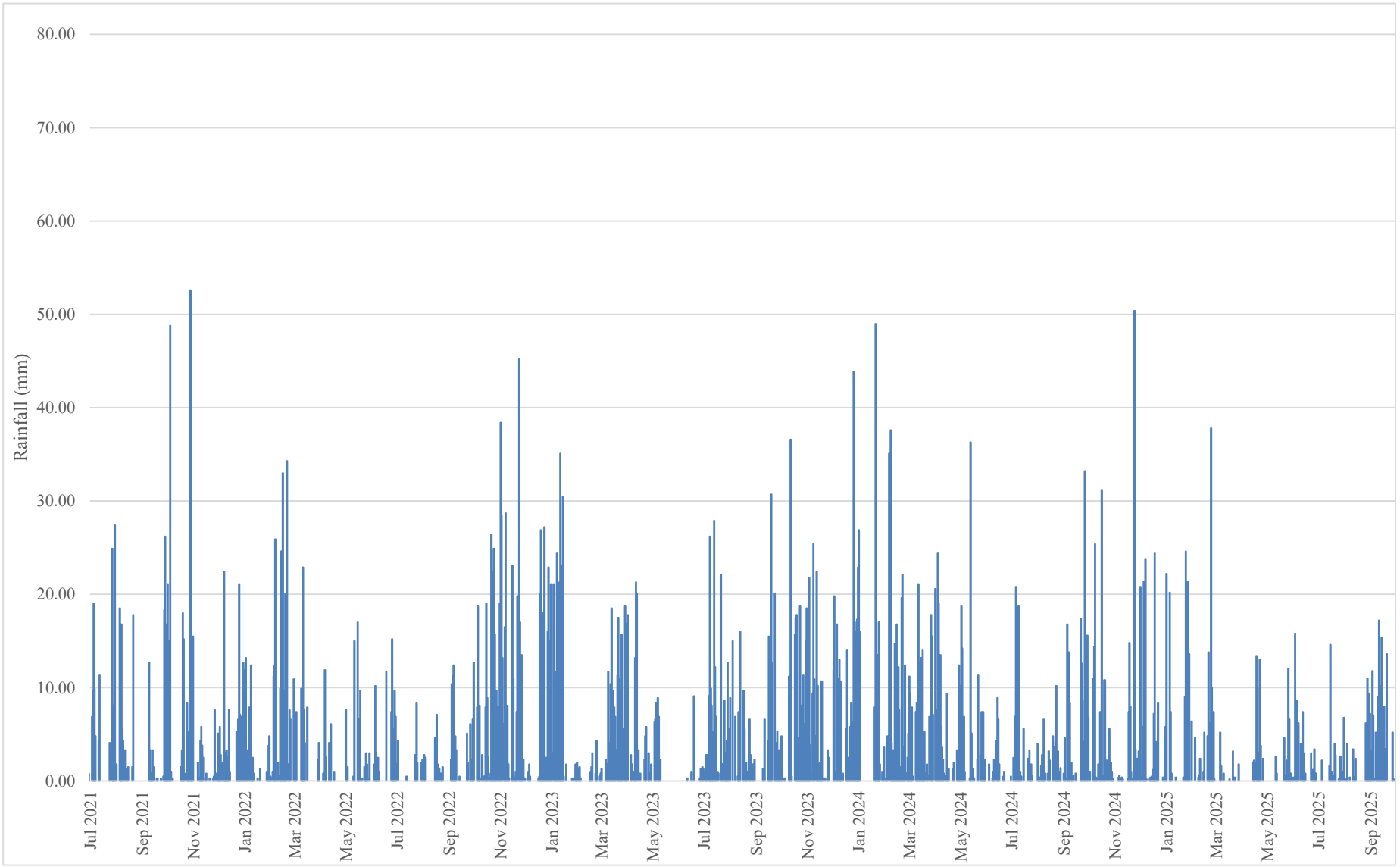
[15] Arup (2011) Silent Valley landfill Investigation into the Western Flank of the Cut-off System. Compliance Wells GW9 and GW10.

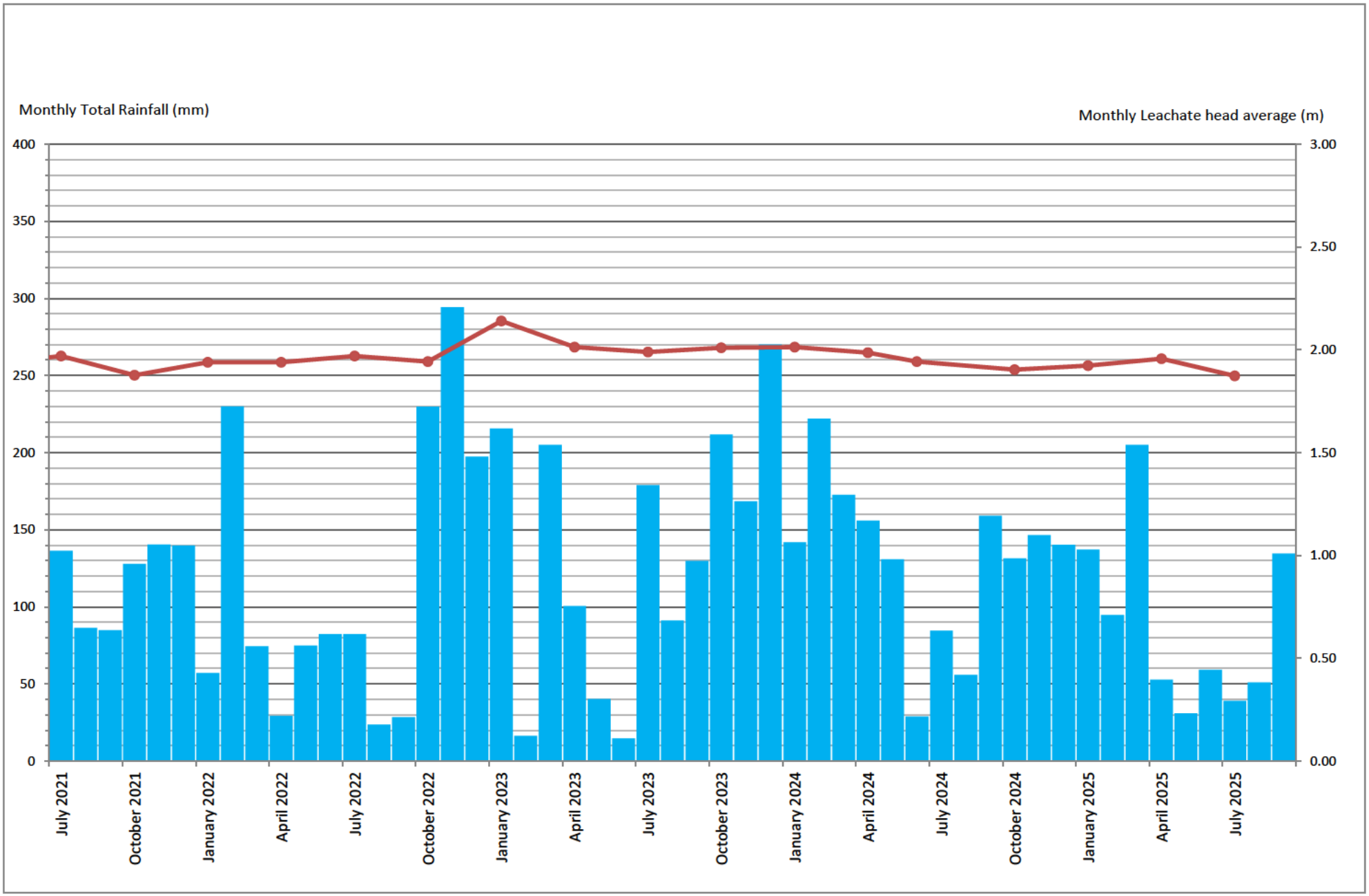
# Appendix A: Monitoring Results - Graphs

## Figure A1

**Daily rainfall totals July 2021- September 2025)**






Monthly Total Rainfall (mm)
Monthly Leachate head average (m)
400
350
300
250
200
150
100
50
0
3.00
2.50
2.00
1.50
1.00
0.50
0.00
July 2021
October 2021
January 2022
April 2022
July 2022
October 2022
January 2023
April 2023
July 2023
October 2023
January 2024
April 2024
July 2024
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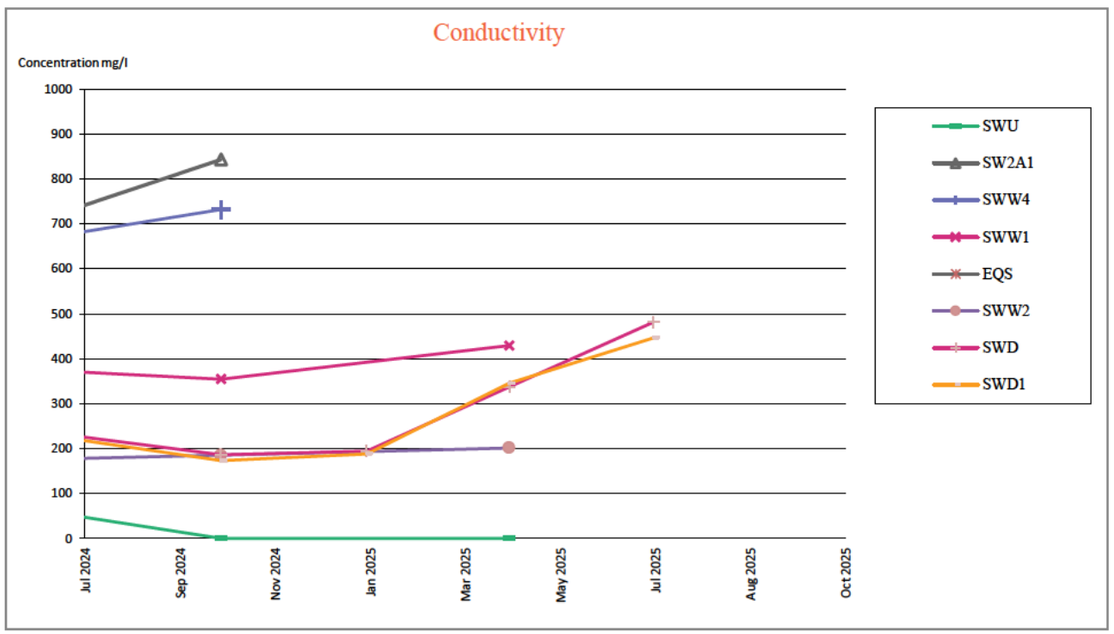
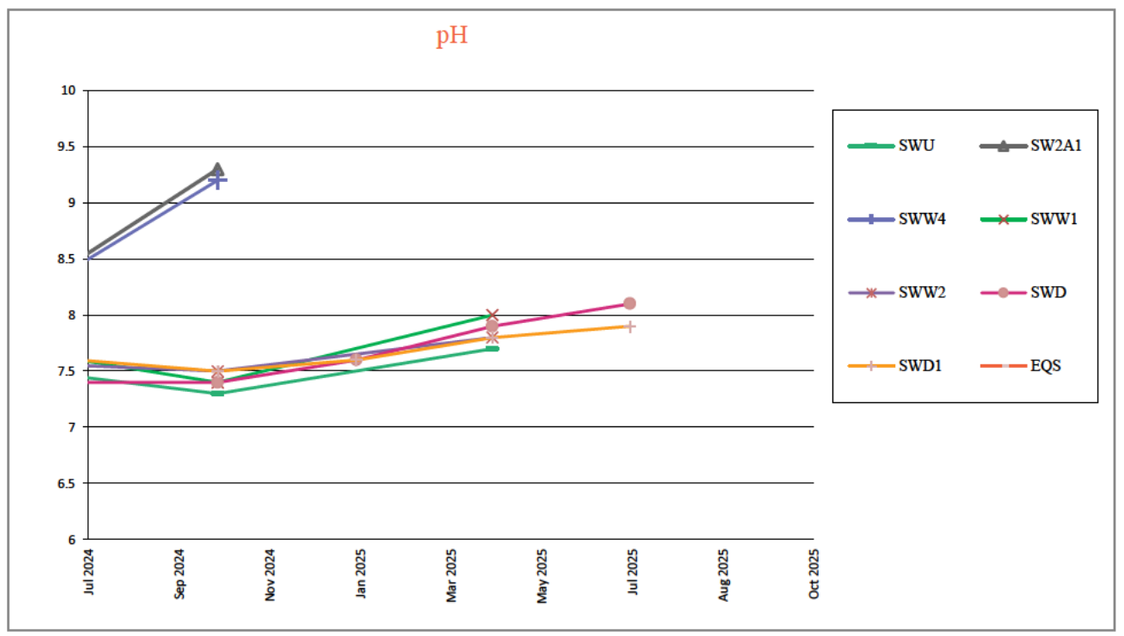
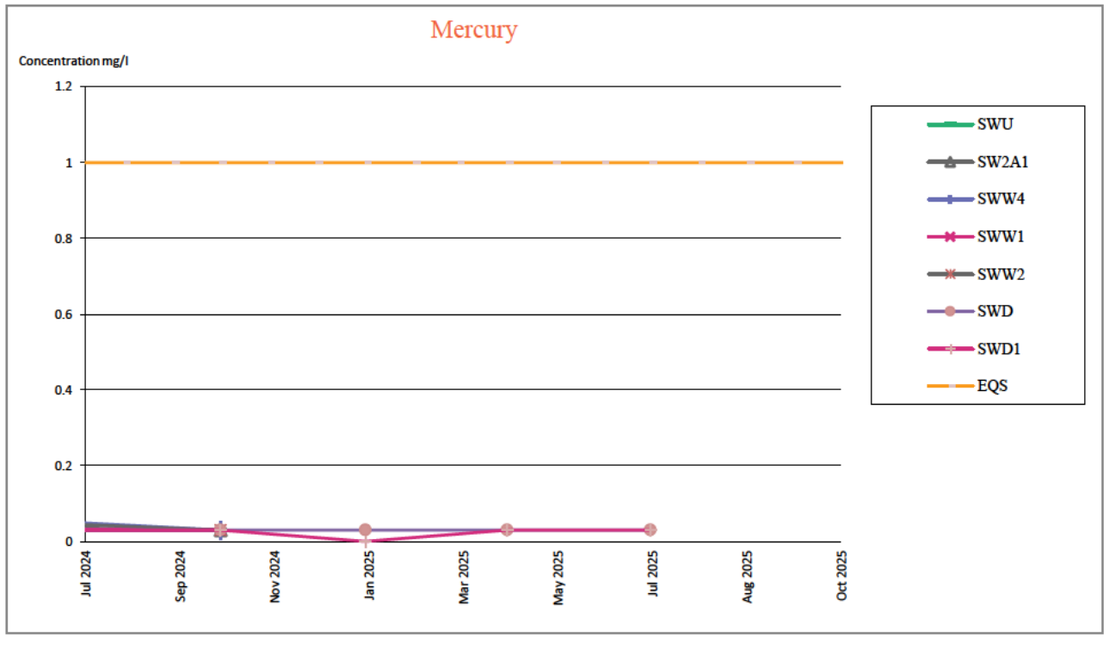
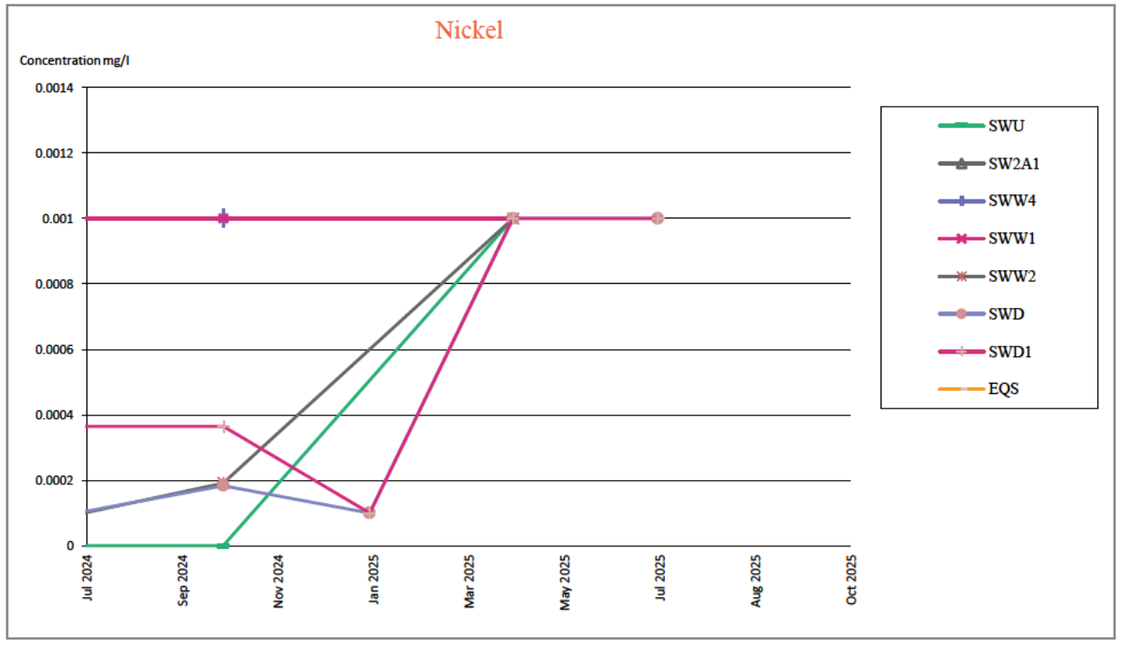
January 2025
April 2025
July 2025

**Surface water monitoring graphs**

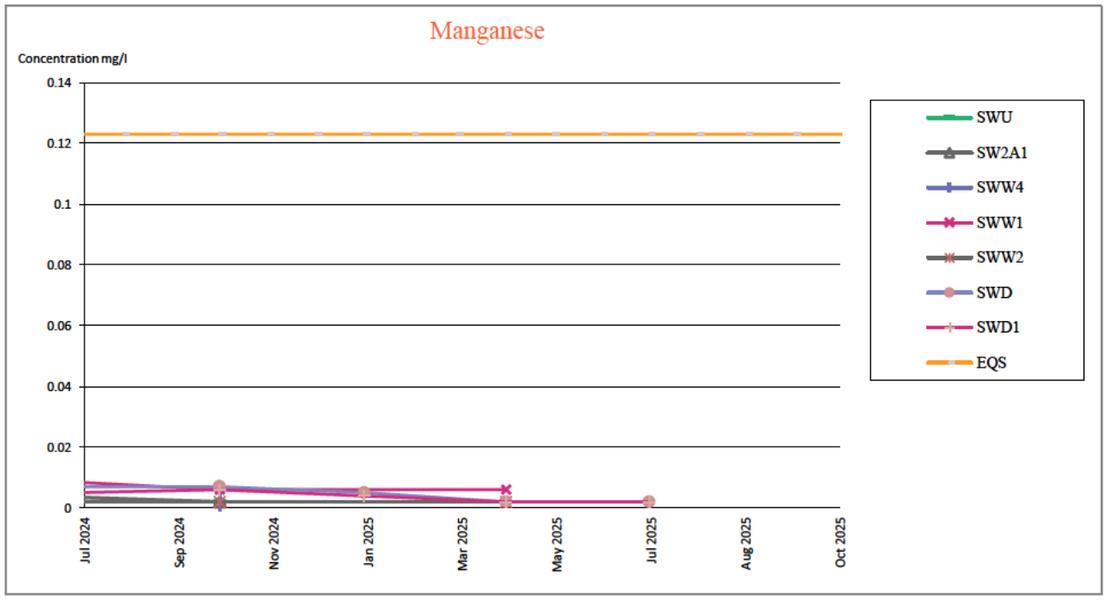


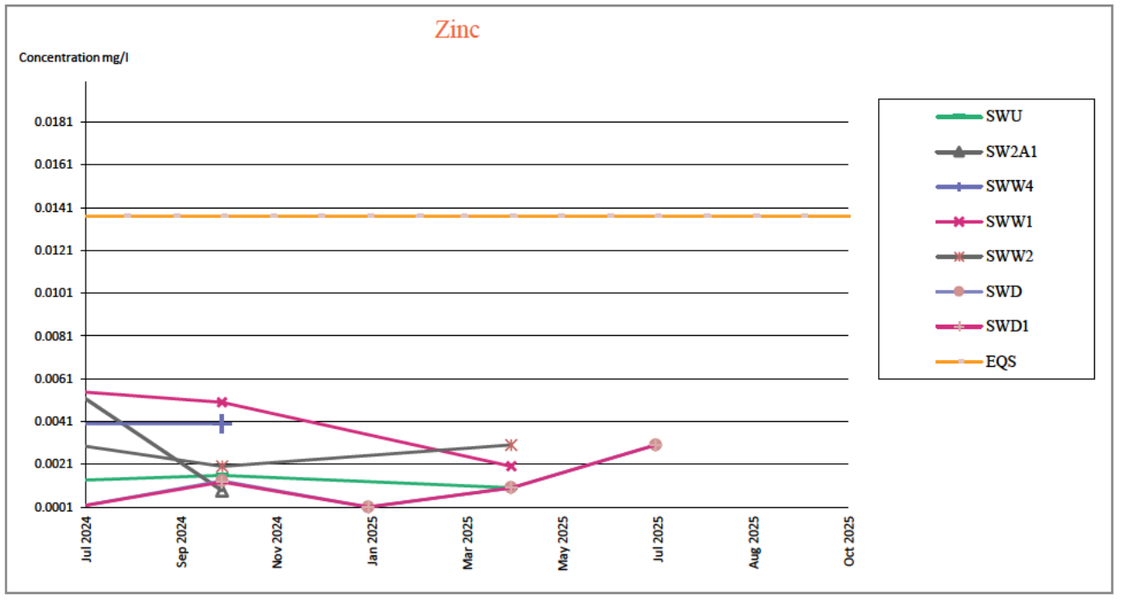



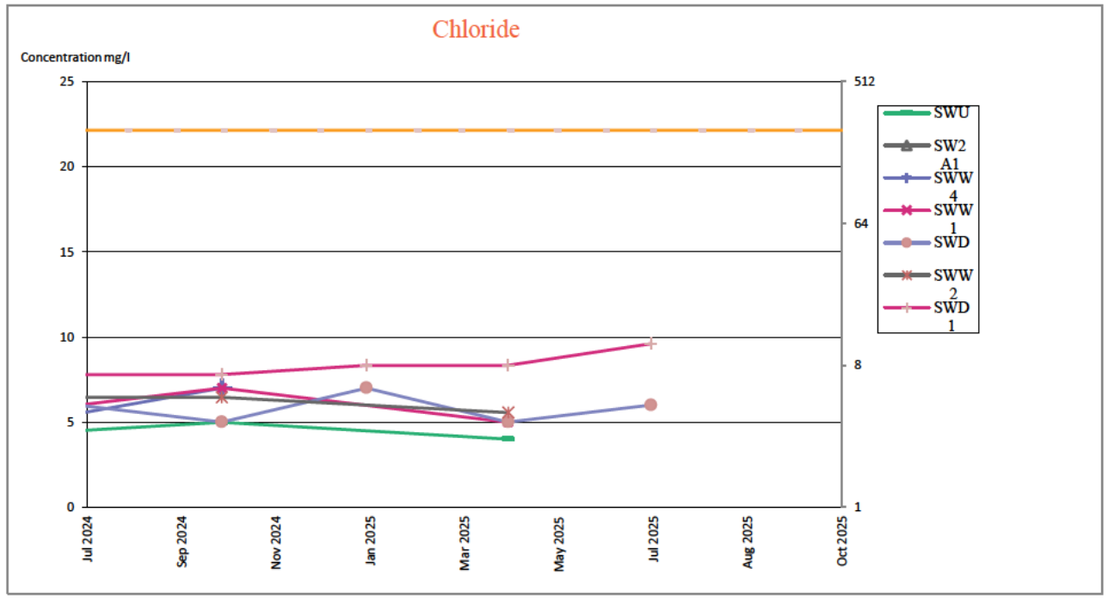



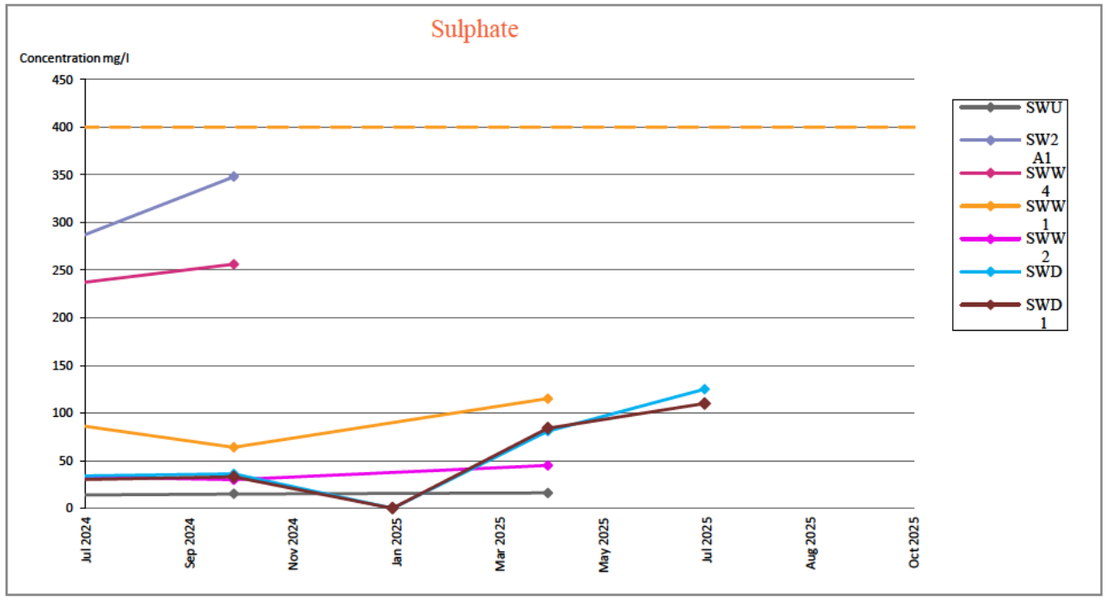



**Surface water monitoring graphs**

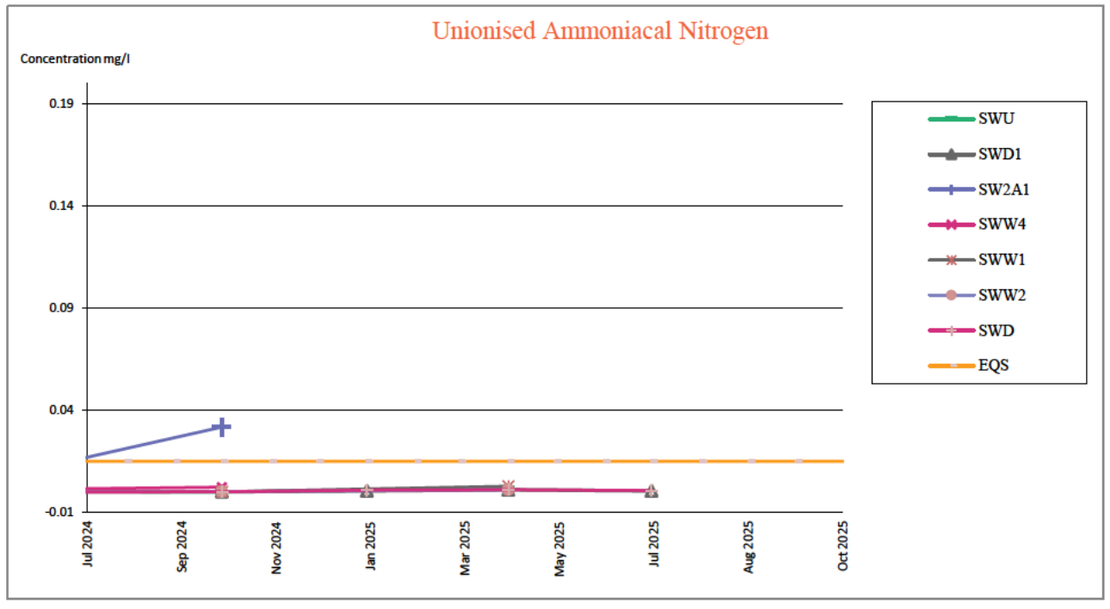


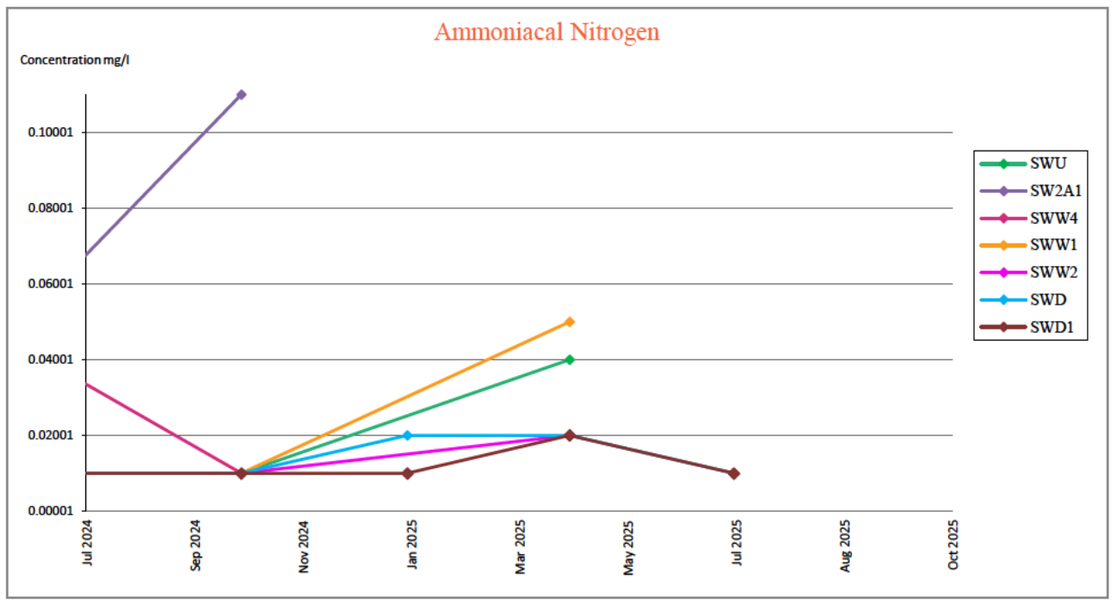



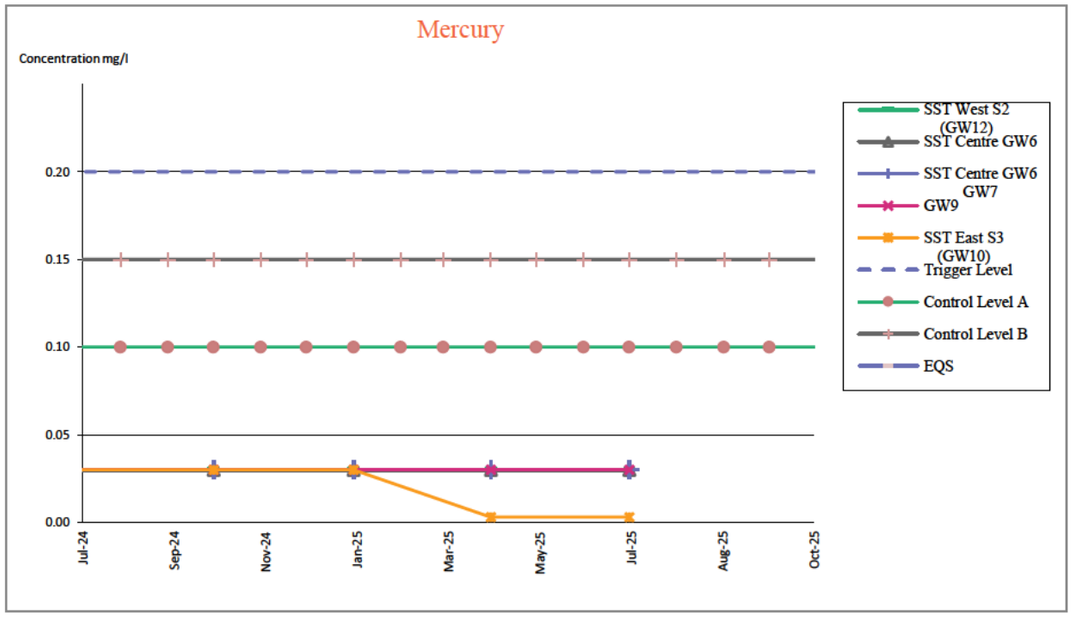
**Surface water monitoring graphs**

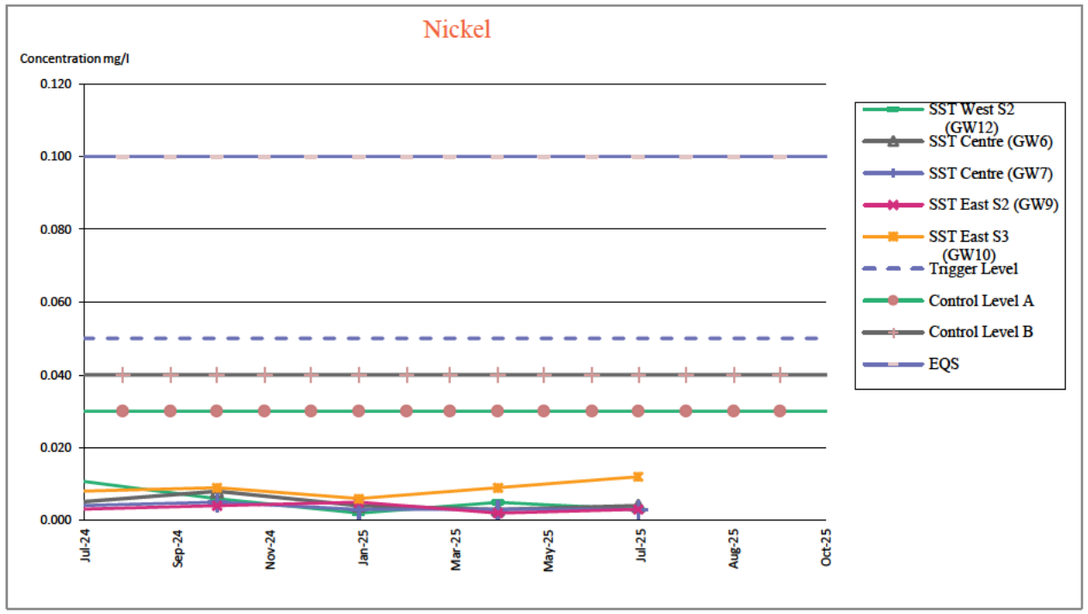


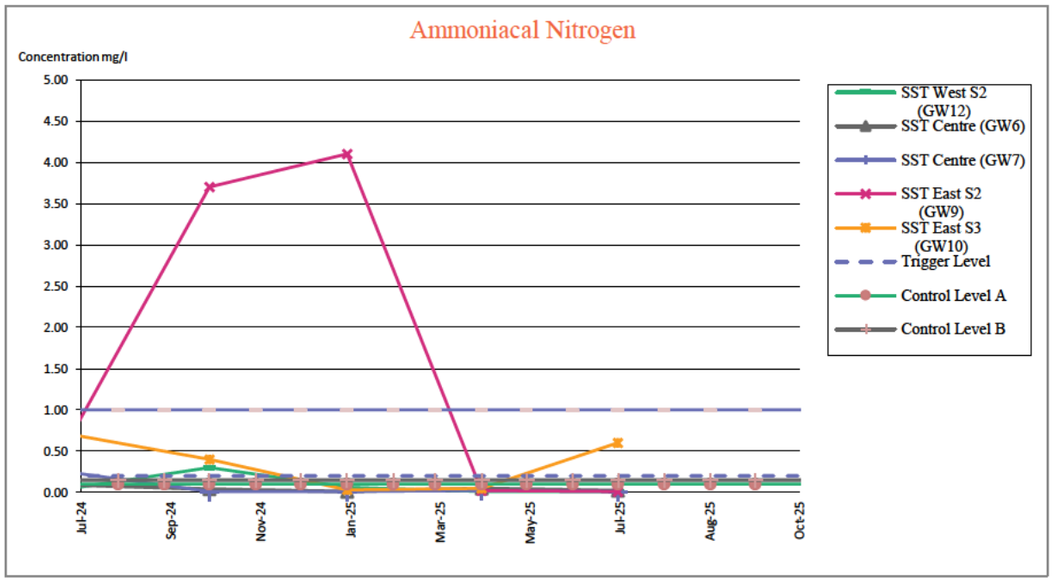



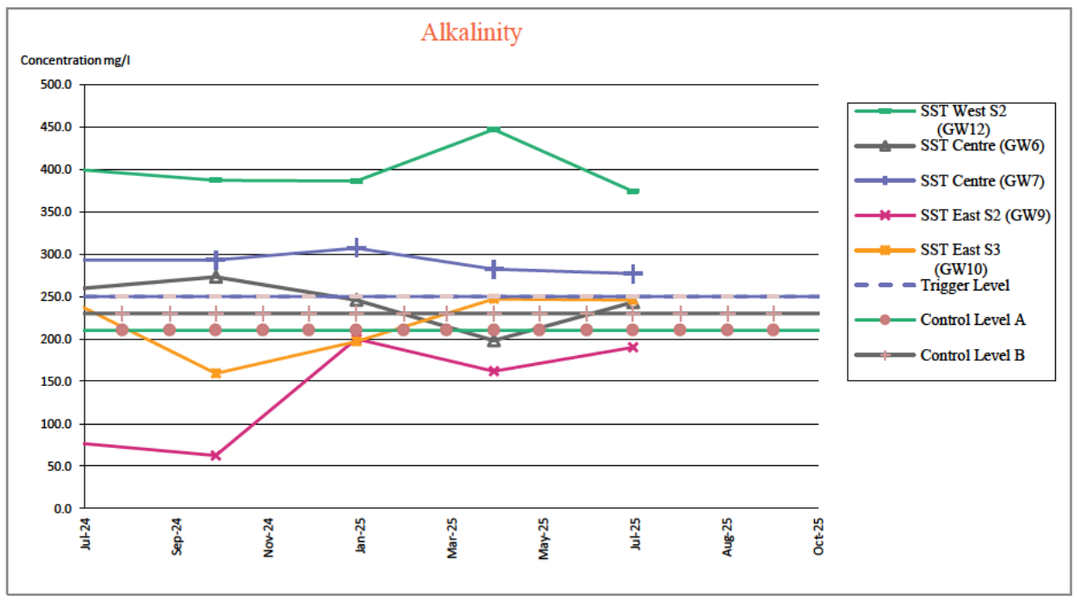
**Groundwater quality monitoring results - Compliance wells graphs**

## Compliance wells graphs



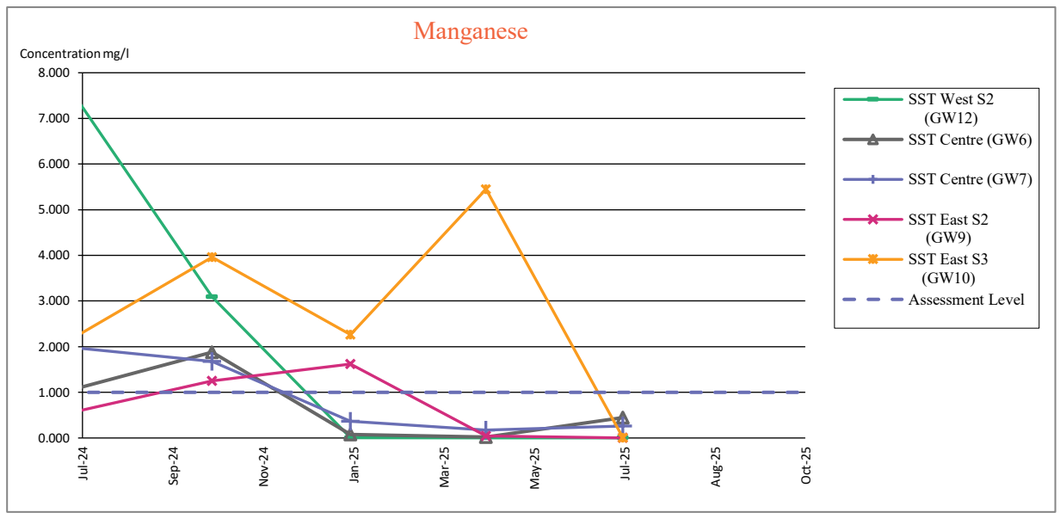



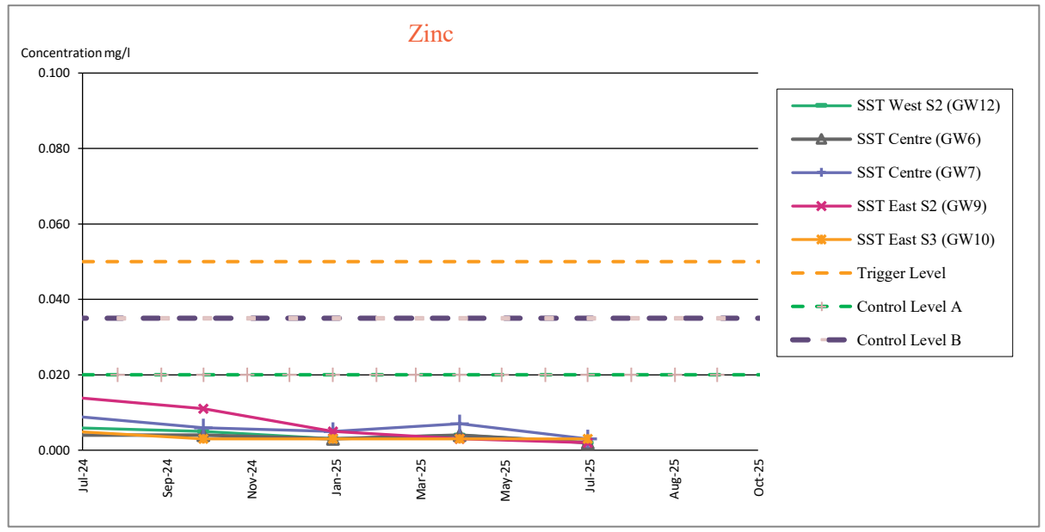



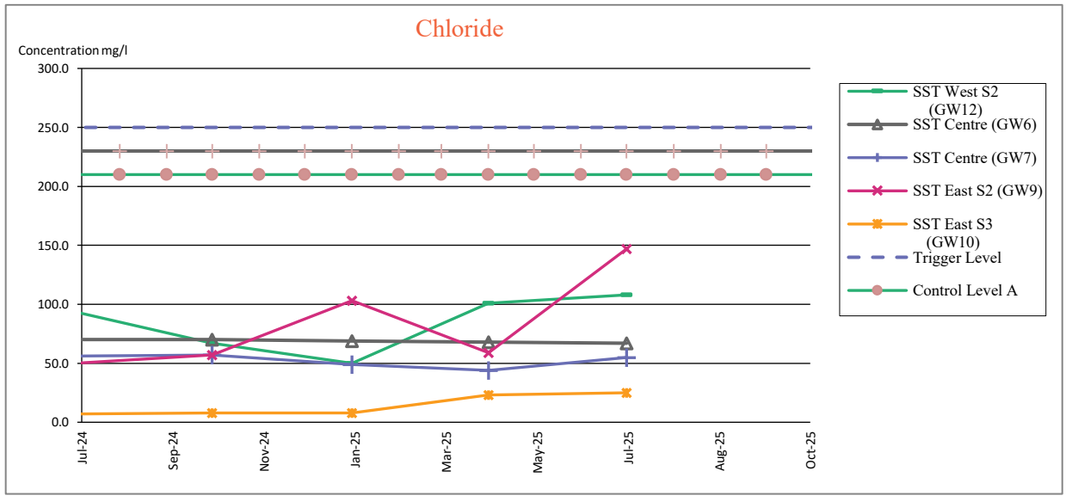



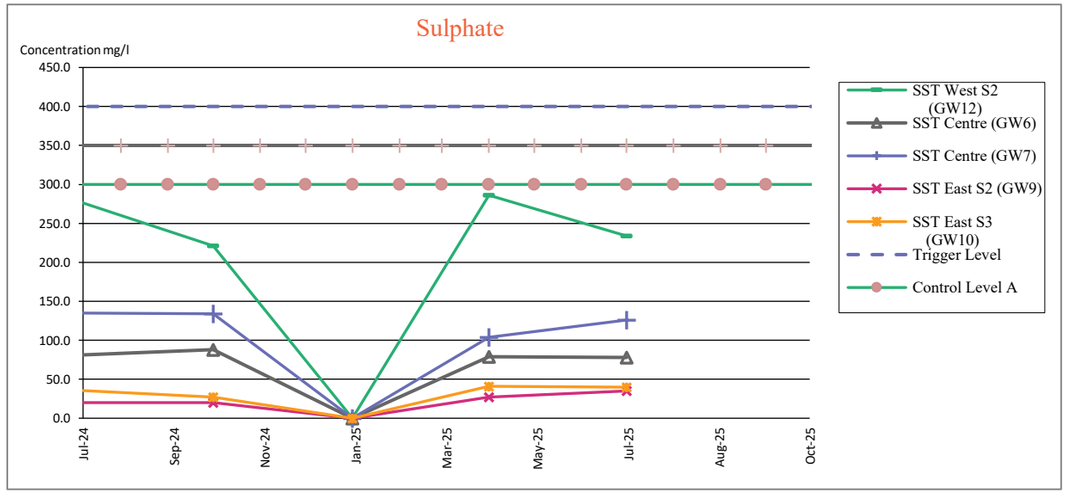
# Groundwater quality monitoring results - Compliance wells graphs

## Compliance wells graphs



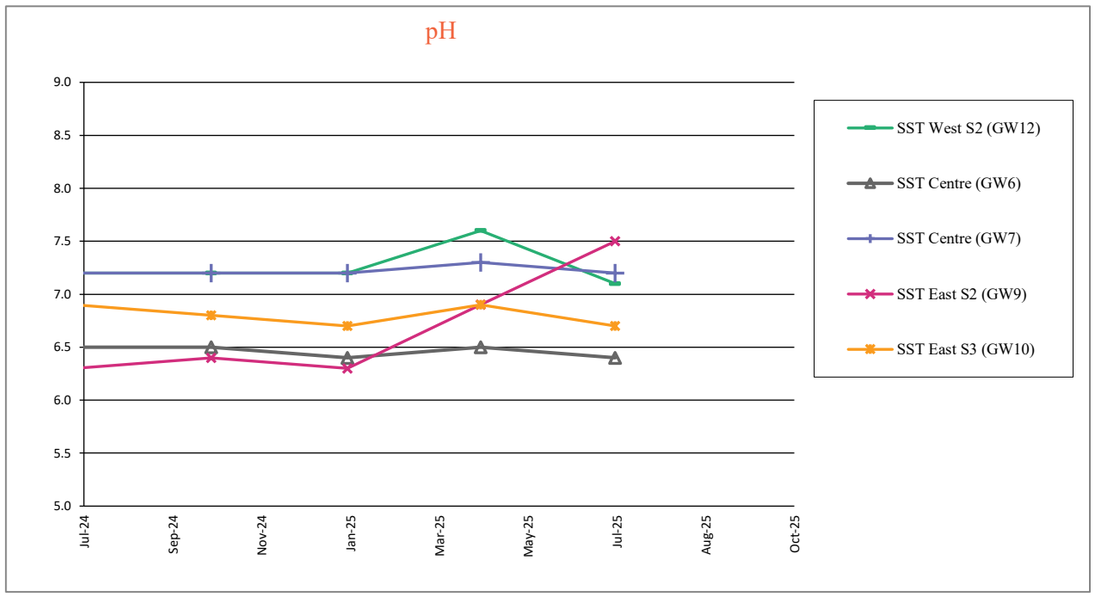



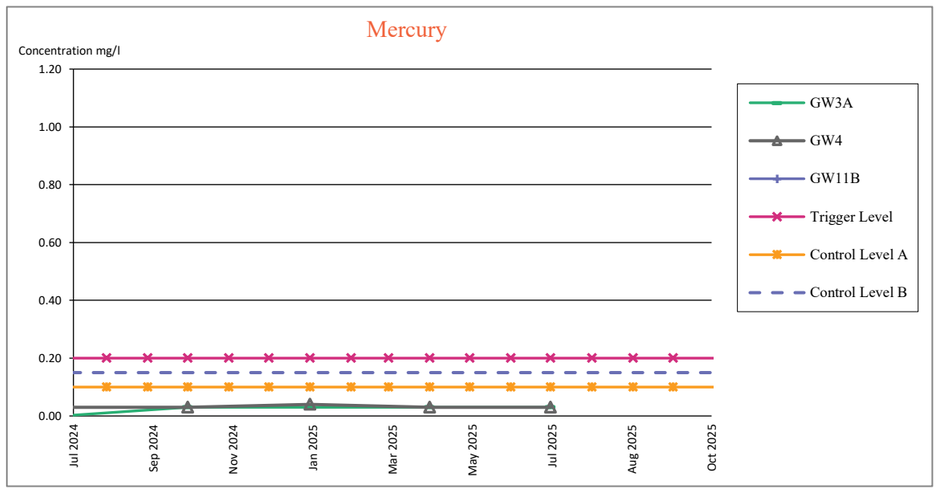



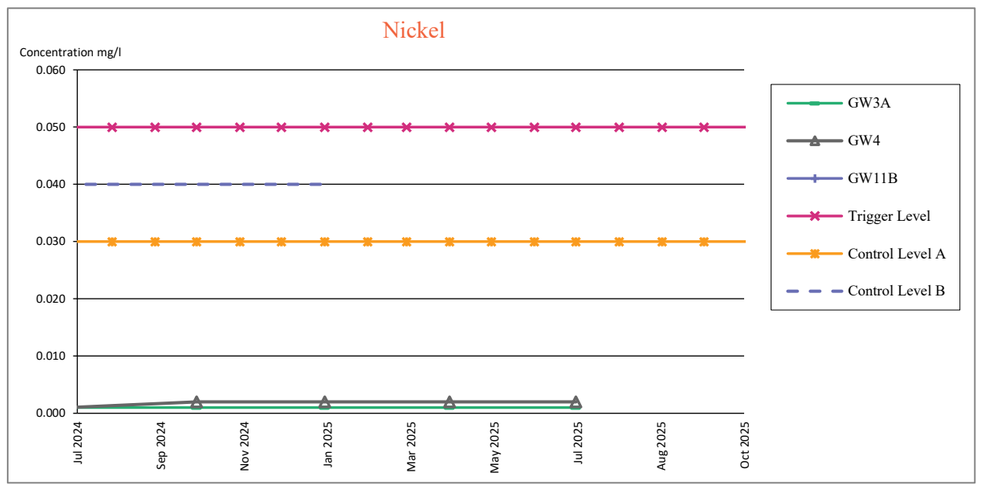
**Groundwater quality monitoring results - Compliance wells graphs**

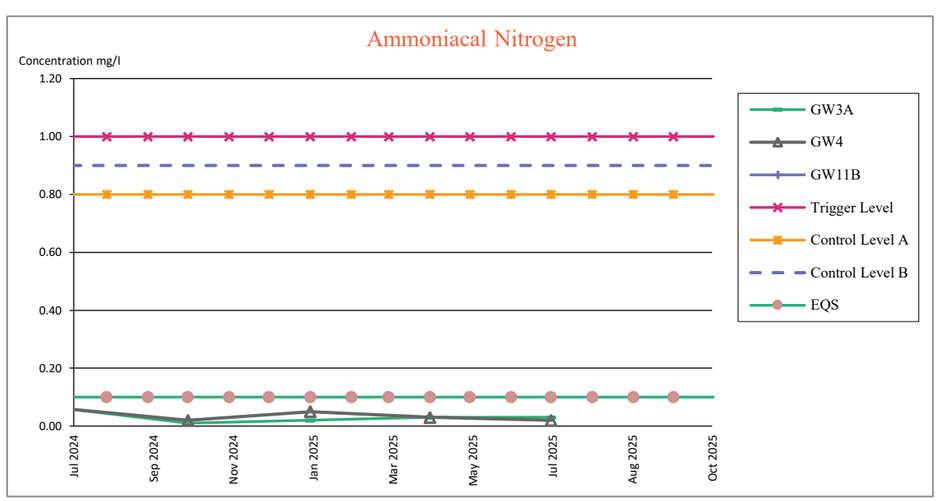
## Compliance wells graphs

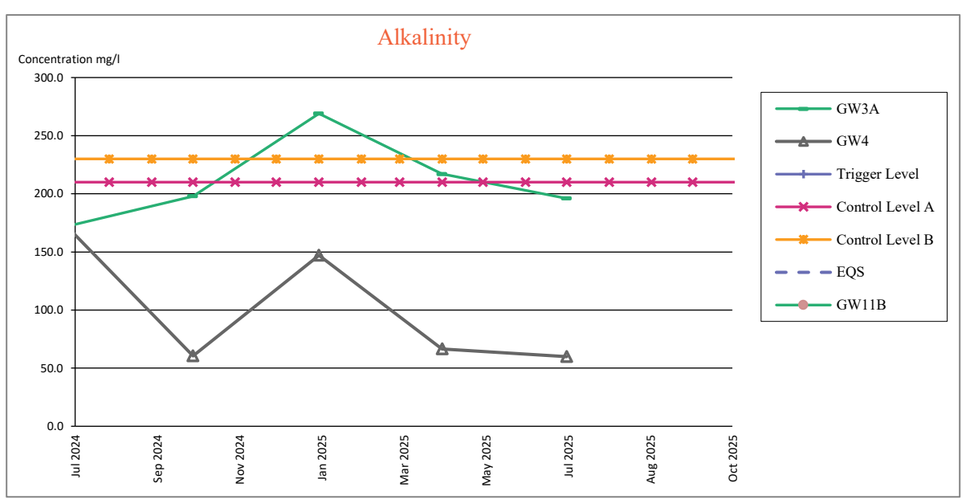


**Groundwater quality monitoring results - Upstream wells graphs**

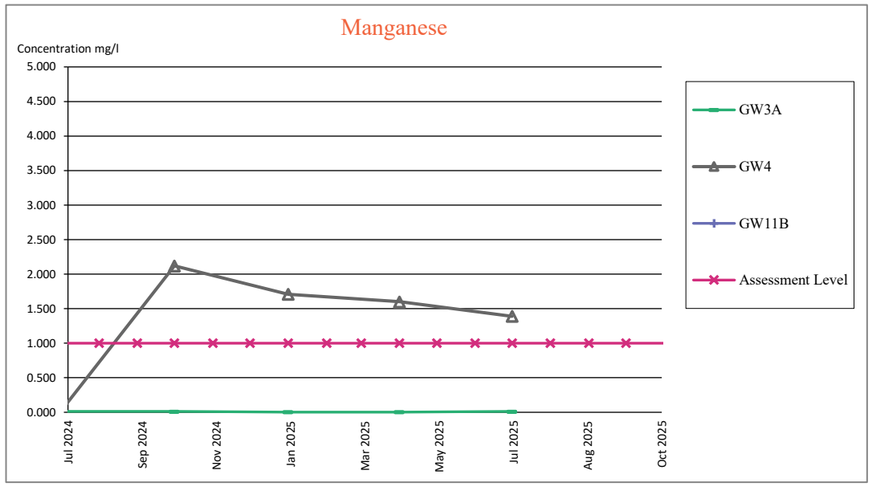


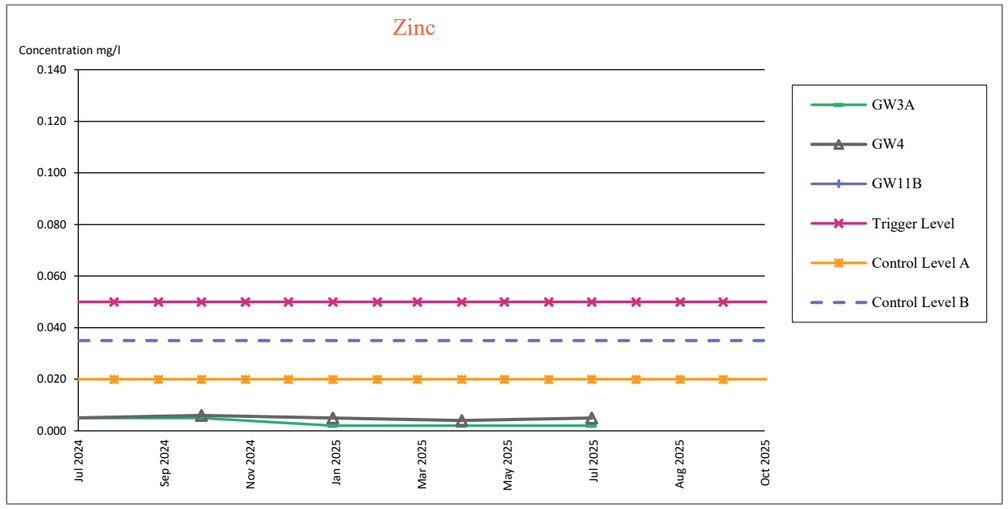



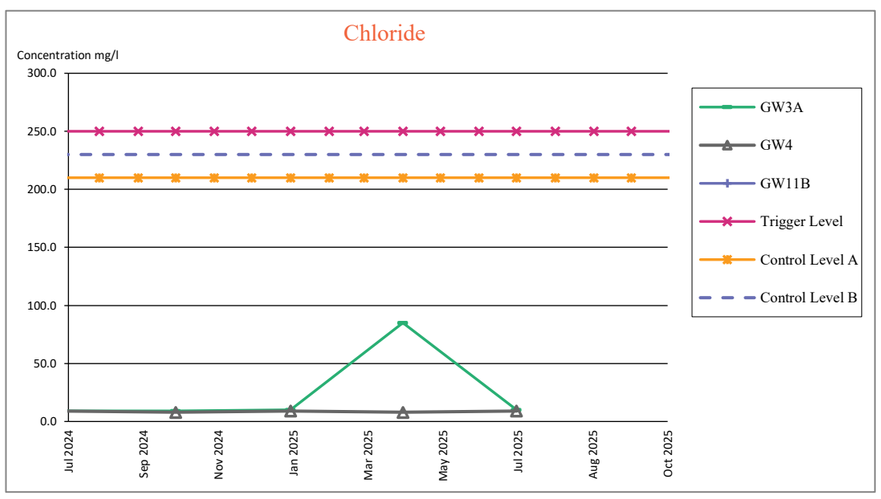



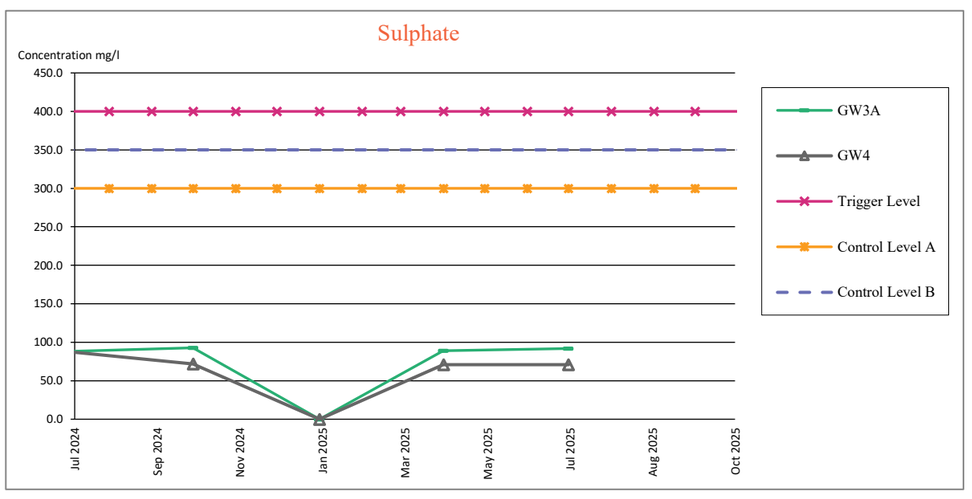



**Groundwater quality monitoring results - Upstream wells graphs**

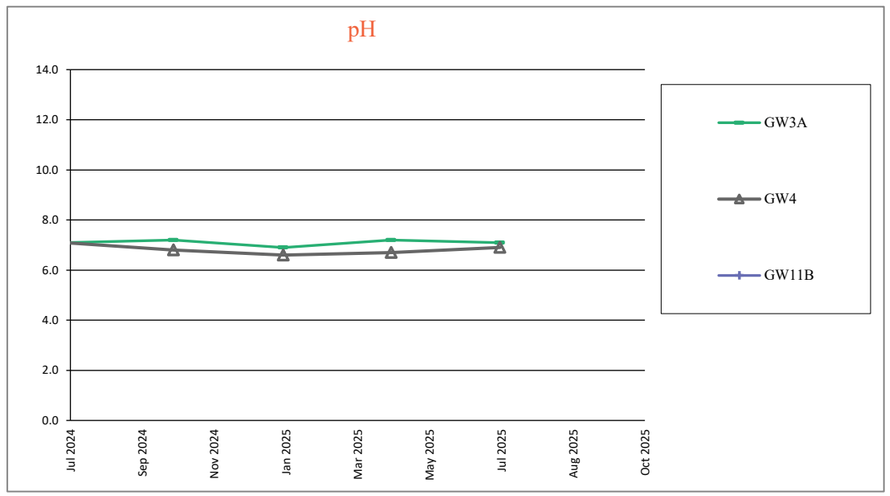


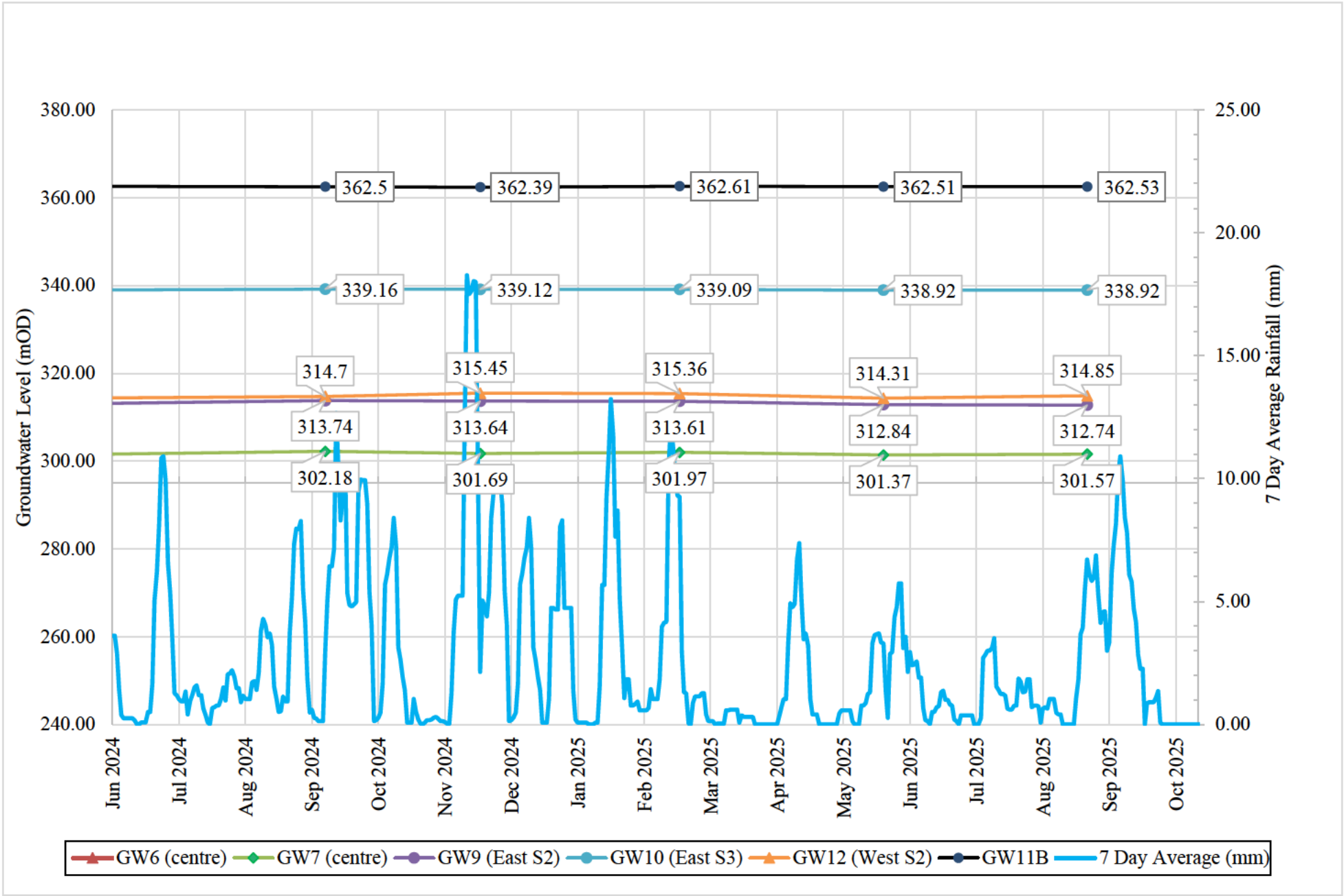



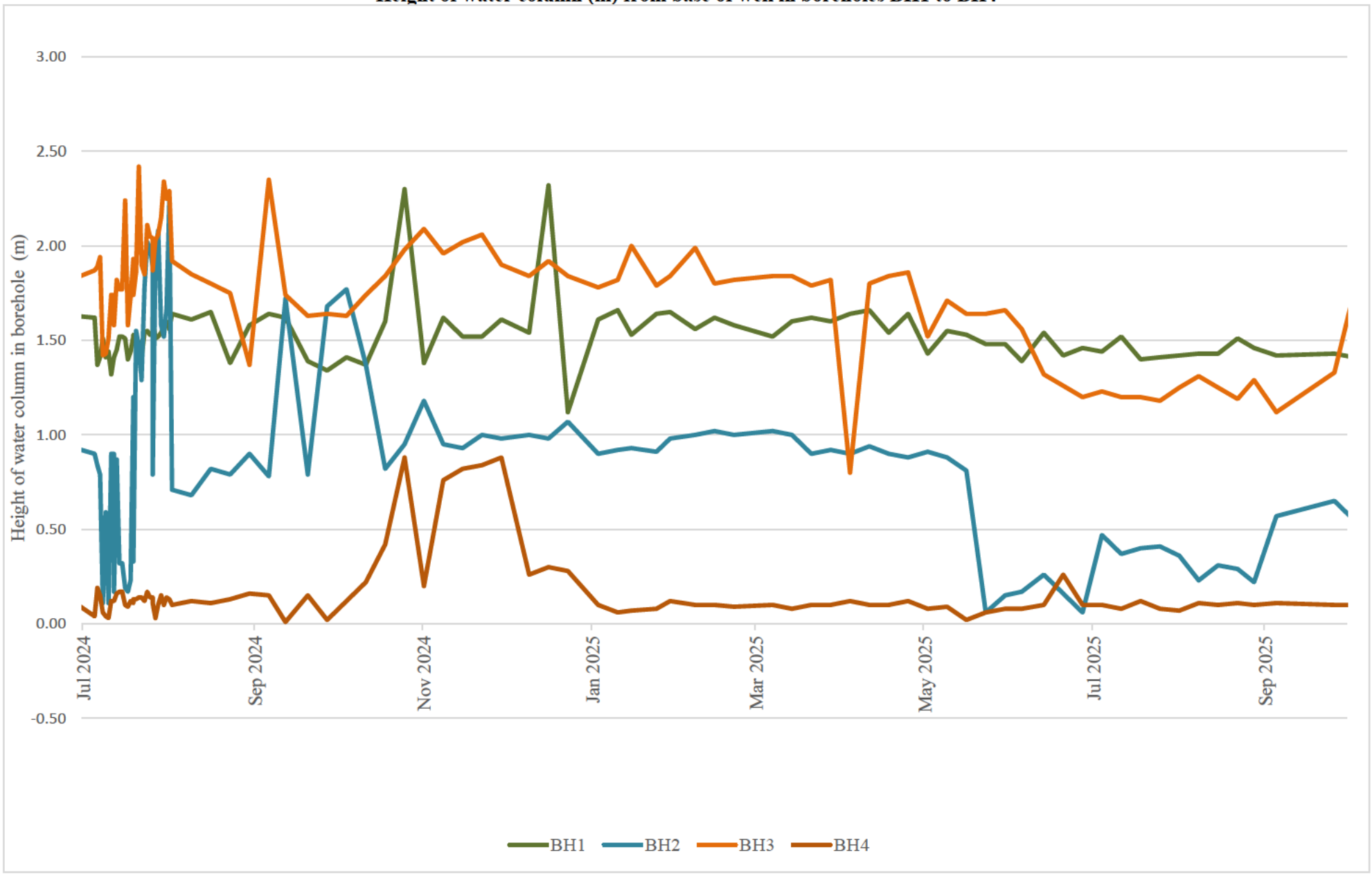



**Groundwater quality monitoring results - Upstream wells graphs**




Groundwater Level (mOD)
7 Day Average Rainfall (mm)
380.00
360.00
340.00
320.00
300.00
280.00
260.00
240.00
25.00
20.00
15.00
10.00
5.00
0.00
362.5
362.39
362.61
362.51
362.53
339.16
339.12
339.09
338.92
338.92
314.7
315.45
315.36
314.31
314.85
313.74
313.64
313.61
312.84
312.74
302.18
301.69
301.97
301.37
301.57
Jun 2024
Jul 2024
Aug 2024
Sep 2024
Oct 2024
Nov 2024
Dec 2024
Jan 2025
Feb 2025
Mar 2025
Apr 2025
May 2025
Jun 2025
Jul 2025
Aug 2025
Sep 2025
Oct 2025
GW6 (centre)
GW7 (centre)
GW9 (East S2)
GW10 (East S3)
GW12 (West S2)
GW11B
7 Day Average (mm)

**Height of water column (m) from base of well in boreholes BH1 to BH4**



# Appendix B: Monitoring Results - Table

**Leachate Monitoring Results**

| LOCATION | Units | L1A | L1B | LC1A | LC2A | LC4A | LC5B | Maximum concentration (mg/l) | Monthly Average (mg/l) | Acceptable Maximum Concentration (AMC) (mg/l) | LP3A | LP4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date Sampled** | 30/07/2025 | | | | | | | - | - | - | | |
| pH | pH Units | | 7.5 | | 8.2 | 7.2 | 8 | 8.2 | 7.73 | -- | 8.2 | 7.8 |
| Conductivity- Electrical 20C | uS/cm | | 2000 | | 11800 | 3800 | 7850 | 11800 | 6363 | -- | 2060 | 1840 |
| Redox Potential (see note 4) | mV | | 80 | | 308 | 288 | 289 | 308 | 241 | -- | 324 | 302 |
| Dissolved Oxygen, Fixed* | mg/l | | 9.3 | | 6.6 | 1.7 | 1.8 | 9.3 | 4.85 | -- | 9.2 | 5.7 |
| Alkalinity as CaCO3 | mg/l | | 489 | | 4490 | 1880 | 3290 | 4490 | 2537 | -- | 422 | 598 |
| Total Suspended Solids | mg/l | | 18 | | 1030 | 550 | 452 | 1030 | 513 | -- | 9 | 7 |
| Solids, Total Dissolved 180 deg C | mg/l | | 1080 | | 5010 | 1670 | 3290 | 5010 | 2763 | -- | 1370 | 1180 |
| TOC (filtered) | mg/l | N/S | 14.4 | | 274 | 50.7 | 218 | 274 | 139 | -- | 13.1 | 12.8 |
| Ammoniacal Nitrogen as N | mg/l | | 0.02 | | 756 | 209 | 563 | 756 | 382 | **526** | 0.02 | 4 |
| Chloride as Cl | mg/l | | 131 | | 820 | 141 | 540 | 820 | 408 | **1408** | 177 | 128 |
| Manganese in filtrate as Mn | mg/l | | 0.648 | | 0.106 | 0.922 | 0.325 | 0.922 | 0.50 | **--** | 0.007 | 0.112 |
| Mercury, filt trace as Hg | mg/l | | < 0.00003 | | < 0.0003 | < 0.00003 | < 0.0003 | 0.00030 | 0.0002 | **0.00056** | < 0.00003 | < 0.00003 |
| Nickel in filtrate as Ni | mg/l | | 0.006 | | 0.08 | 0.004 | 0.045 | 0.08 | 0.03 | **0.0681** | 0.007 | 0.004 |
| Sulphate as SO4 | mg/l | | 314 | | 501 | 11 | 31 | 501 | 214 | **999** | 307 | 156 |
| Zinc, ultra-low filtered as Zn | mg/l | | 0.009 | | 0.038 | 0.002 | <0.020 | 0.038 | 0.02 | **1.38** | 0.013 | 0.006 |

Notes

1. < denotes 'less than'.
2. L1A,L1B, LC1A, LC2A,LC4A, LC5B: Wells in Waste.
3. -- denotes 'no acceptable maximum concentration available'.
4. The redox potential was not measured on site and there is a possibility that it has changed between sampling and analysis
5. LC5B is a replacement for LC5A well.
6. N/S denotes 'not sampled.

Exceedance of AMC (per well)
Exceedance of AMC (monthly average)

## Leachate Head Levels

| | | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Jul-25 | Aug-25 | Sep-25 | Oct-25 | Nov-25 | Dec-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |
| | Elevation of base of landfill mAOD | 357.62 | | | 357.62 | | | 357.62 | | | | | |
| | Elevation at top of casing mAOD | 398.85 | | | 398.85 | | | 398.85 | | | | | |
| | **Depth to leachate from top of casing (m)** | **40.36** | | | **40.38** | | | **40.32** | | | | | |
| LC1A | Leachate elevation (mAOD) | 358.49 | | | 358.47 | | | 358.53 | | | | | |
| | Calculated leachate head (m) | 0.87 | | | 0.85 | | | 0.91 | | | | | |
| | | | | | | | | | | | | | |
| | Elevation of base of landfill mAOD | 362.49 | | | 362.49 | | | 362.49 | | | | | |
| | Elevation at top of casing mAOD | 401.12 | | | 401.12 | | | 401.12 | | | | | |
| LC2A | **Depth to leachate from top of casing (m)** | **35.80** | | | **35.68** | | | **35.90** | | | | | |
| | Leachate elevation (mAOD) | 365.32 | | | 365.44 | | | 365.22 | | | | | |
| | Calculated leachate head (m) | 2.83 | | | 2.95 | | | 2.73 | | | | | |
| | | | | | | | | | | | | | |
| | Elevation of base of landfill mAOD | 372.27 | | | 372.27 | | | 372.27 | | | | | |
| | Elevation at top of casing mAOD | 401.14 | | | 401.14 | | | 401.14 | | | | | |
| LC4A | **Depth to leachate from top of casing (m)** | **26.80** | | | **26.80** | | | **26.89** | | | | | |
| | Leachate elevation (mAOD) | 374.34 | | | 374.34 | | | 374.25 | | | | | |
| | Calculated leachate head (m) | 2.07 | | | 2.07 | | | 1.98 | | | | | |
| | | | | | | | | | | | | | |
| | Elevation of base of landfill mAOD | 349.79 | | | 349.79 | | | 349.79 | | | | | |
| | Elevation at top of casing mAOD | 380.75 | | | 380.75 | | | 380.75 | | | | | |
| | **Depth to leachate from top of casing (m)** | **29.90** | | | **29.90** | | | **30.08** | | | | | |
| LC5B | Leachate elevation (mAOD) | 350.85 | | | 350.88 | | | 350.67 | | | | | |
| | Calculated leachate head (m) | 1.06 | | | 1.09 | | | 0.88 | | | | | |
| | | | | | | | | | | | | | |
| | Casing height (mAOD) | 357.00 | | | 357.00 | | | 357.00 | | | | | |
| | Leachate (mbgl) | **DRY** | | | **DRY** | | | **DRY** | | | | | |
| | **Leachate (m AOD)** | - | | | - | | | - | | | | | |
| L1 | Base of landfill (m AOD) | 336.80 | | | 336.80 | | | 336.80 | | | | | |
| | **Depth of well from top of casing (m)** | | | | | | | | | | | | |
| | Base of well (m AOD) | | | | | | | | | | | | |
| | Calculated leachate head (m) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Casing height (mAOD) | 355.79 | | | 355.79 | | | 355.79 | | | | | |
| | **Leachate (mbgl)** | **DRY** | | | **DRY** | | | **DRY** | | | | | |
| | Leachate (m AOD) | - | | | - | | | | | | | | |
| L1A* | Base of landfill (m AOD) | 316.64 | | | 316.64 | | | 316.64 | | | | | |
| | **Depth of well from top of casing (m)** | **20.95** | | | **20.91** | | | **20.93** | | | | | |
| | Base of well (m AOD) | 334.84 | | | 334.88 | | | 334.86 | | | | | |
| | Calculated leachate head (m) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Casing height (mAOD) | 354.80 | | | 354.80 | | | 354.80 | | | | | |
| | **Leachate (mbgl)** | **25.43** | | | **25.50** | | | **27.25** | | | | | |
| | Leachate (m AOD) | 329.37 | | | 329.30 | | | 327.55 | | | | | |
| L1B* | Base of landfill (m AOD) | 319.60 | | | 319.60 | | | 319.60 | | | | | |
| | **Depth of well from top of casing (m)** | **34.40** | | | **34.80** | | | **34.40** | | | | | |
| | Base of well (m AOD) | 320.40 | | | 320.00 | | | 320.40 | | | | | |
| | Calculated leachate head (m) | 9.77 | | | 9.70 | | | 7.95 | | | | | |

| 2025 | Quarterly Leachate Head Averages (m) |
|---|---|
| January | 1.92 |
| February | |
| March | |
| April | 1.96 |
| May | |
| June | |
| July | 1.87 |
| August | |
| September | |
| October | |
| November | |
| December | |

Minimum monthly leachate head average
Maximum monthly leachate head average

**Notes:**
**Top of casings were re-surveyed in August 2019**
1. LC1A top of casing is 1710mm above ground level.

2. LC2A top of casing is 820mm above GL.

3. LC4A top of casing is 1040mm above GL.

* Well not included in monthly average.
** NS - Not Sampled

Note: L1 is generally dry or with very little water in it.

**Surface Water Monitoring Results**

| Month | Location | | Date | Mercury, ultra-low total as Hg | Manganese in filtrate as Mn | Nickel in filtrate as Ni | Bioavailable Ni | Zinc, ultra-low total as Zn | Bioavailable Zn | pH | Conductivity-Electrical 20C | Ammoniacal Nitrogen as N | *Unionised Ammoniacal Nitrogen based on measured Temperature | Measured surface water temperature | Chloride as Cl | Sulphate as SO4 | Total Suspended Soilds | Dissolved Oxygen, fixed | TOC, filtered | Redox Potential | Alkalinity as CaCO3 | Calcium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ug/l | mg/l | mg/l | mg/l | mg/l | mg/l | | uS/cm | mg/l | mg/l | °C | mg/l | mg/l | mg/l | mg/l | mg/l | mV | mg/l | mg/l |
| | Freshwater EQS** | | | 1 | 0.123 | | 0.004 | | 0.0137 | | | | 0.015** | | 250 | 400 | | | | | | |
| January | Upstream of Landfill | SWU<br>SW2AI<br>SWW4 | Six-monthly | Not sampled this quarter | | | | | | | | | | | | | | | | | | |
| | NW Ditch System | SWW1<br>SWW2 | Six-monthly | Not sampled this quarter | | | | | | | | | | | | | | | | | | |
| | Downstream of Landfill | SWD<br>SWD1 | Quarterly | < 0.03<br>0.00 | 0.0050<br>0.0040 | < 0.0010<br>< 0.0010 | < 0.0001<br>< 0.0001 | 0.005<br>0.005 | < 0.0001<br>< 0.0001 | 7.6<br>7.6 | 194<br>188 | 0.02<br>< 0.01 | 0.0009<br>0.0004 | 7.3<br>6.8 | 7.00<br>8.00 | <3<br><3 | 7.00<br><5 | 13<br>14 | 0.9<br>1.2 | 305<br>292 | 61<br>67 | <1<br><1 |
| April | Upstream of Landfill | SWU<br>SW2AI<br>SWW4 | Six-monthly | < 0.03 | < 0.002 | 0.002 | < 0.0001 | 0.008 | 0.0016 | 7.3 | <100 | < 0.01 | 0.00003 | 8.90 | 5.00 | 15.0 | 28.00 | 13 | 0.6 | 240 | 13 | 6 |
| | | | | Not enough water for sample | | | | | | | | | | | | | | | | | | |
| | | | | Not enough water for sample | | | | | | | | | | | | | | | | | | |
| | NW Ditch System | SWW1<br>SWW2 | Six-monthly | < 0.03<br>< 0.03 | < 0.006<br>< 0.002 | 0.001<br>< 0.001 | 0.0010<br>< 0.0010 | 0.002<br>0.003 | 0.0010<br>< 0.0010 | 8.0<br>7.8 | 429.0<br>201.0 | 0.05<br>0.02 | 0.00276<br>0.00098 | 10.7<br>10.0 | 5.00<br>4.00 | 115.0<br>45.0 | <5<br><5 | 13<br>12 | 1.0<br><0.40 | 255<br>264 | 96<br>50 | 44<br>19 |
| | Downstream of Landfill | SWD<br>SWD1 | Quarterly<br>Quarterly | < 0.03<br>< 0.03 | < 0.0020<br>< 0.0020 | < 0.0010<br>0.0010 | < 0.0010<br>< 0.0010 | 0.005<br>0.003 | < 0.0010<br>< 0.0010 | 7.9<br>7.8 | 337<br>345 | 0.02<br>0.02 | 0.00110<br>0.00102 | 13.4<br>12.4 | 5.00<br>8.00 | 81.0<br>84.0 | 6.00<br><5 | 13<br>11 | 1.0<br>1.1 | 231<br>238 | 92<br>83 | 40<br>39 |
| July | Upstream of Landfill | SWU<br>SW2AI<br>SWW4 | Six-monthly | Not sampled this quarter | | | | | | | | | | | | | | | | | | |
| | NW Ditch System | SWW1<br>SWW2 | Six-monthly | Not sampled this quarter | | | | | | | | | | | | | | | | | | |
| | Downstream of Landfill | SWD<br>SWD1 | Quarterly | < 0.03<br>< 0.03 | < 0.002<br>< 0.002 | < 0.001<br>< 0.001 | < 0.0010<br>< 0.0010 | 0.003<br>0.003 | < 0.0030<br>< 0.0030 | 8.1<br>7.9 | 481<br>446 | < 0.01<br>< 0.01 | 0.00061<br>0.00055 | 13.2<br>13.4 | 6<br>11 | 125<br>110 | <5<br>12 | 0.1<br>10.4 | 1.0<br>1.4 | 138<br>199 | 120<br>100 | 58<br>54 |
| October | Upstream of Landfill | SWU<br>SW2AI<br>SWW4 | Six-monthly | | | | | | | | | | | | | | | | | | | |
| | NW Ditch System | SWW1<br>SWW2 | Six-monthly | | | | | | | | | | | | | | | | | | | |
| | Downstream of Landfill | SWD<br>SWD1 | Quarterly | | | | | | | | | | | | | | | | | | | |
| **Minimum** | | | | < 0.0020 | < 0.0010 | < 0.0001 | < 0.0020 | < 0.0001 | 7.3 | 188 | < | < | 0.0000 | 6.8 | 4.0 | 15.0 | 6.0 | 0.1 | 0.6 | 138 | 13.1000 | 6.0000 |
| **Maximum** | | | | < 0.0060 | < 0.0020 | < 0.0010 | < 0.0080 | < 0.0030 | 8.1 | 481 | < | < | 0.0028 | 13.4 | 11 | 125 | 28 | 13.8 | 1 | 305 | 120 | 58 |
| **Count** | | | | 9 | 9 | 9 | 9 | 9 | 9 | 8 | | | 9 | 9 | 9 | 7 | 4 | 9 | 8 | 9 | 9 | 7 |

Exceedance of EQS
Upstream of Nant Merddog
Downstream of Nant Merddog

Notes
1.The redox potential was not measured on site and there is a possibility that it has changed between sampling and analysis
2.N/S - Not analysed
3.Unionised ammoniacal nitrogen based on measured
4.Environmental Quality Standard EQS 1 for freshwater is derived to protect the most sensitive aquatic life.
5.NW Ditch - North Western (ditch system)

Groundwater monitoring results

| Location | Month | Date | Test reference number | Redox Potential | | Mercury, filtrate as Hg | | Manganese in filtrate as Mn | | Nickel in filtrate as Ni | | Zinc, ultra-low filtered as Zn | pH | Electrical Conductivity 20C | Alkalinity as CaCO3 | | Ammoniacal Nitrogen as N | Unionised Ammoniacal Nitrogen *** | Measure water temperature | Chloride as Cl | Sulphate as SO4 | Calcium | D.O. concentration | | TOC (Filtered) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mV | | ug/l | | mg/l | | mg/l | | mg/l | pH units | uS/cm | mg/l | | mg/l | mg/l | °C | mg/l | mg/l | mg/l | mg/l | | mg/l |
| | **Trigger Level** | | | | | **(0.2[a])** | | | | **0.050** | | **(0.05[a])** | -- | -- | -- | | **1** | -- | -- | **250** | **400** | -- | -- | | -- |
| | **Control Level A** | | | | | **(0.1[aa])** | | -- | | **0.030** | | **(0.02[aa])** | -- | -- | -- | | **0.8** | -- | -- | **210** | **300** | -- | -- | | -- |
| | **Control Level B** | | | | | **(0.15[aa])** | | -- | | **0.040** | | **(0.035[aa])** | -- | -- | -- | | **0.9** | -- | -- | **230** | **350** | -- | -- | | -- |
| | **Assessment Level** | | | | | -- | | **(1.0[a])** | | -- | | -- | -- | -- | | | | -- | -- | -- | -- | -- | -- | | -- |
| **UPSTREAM WELLS** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **SST East S3** | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-24 | 05/02/24 | 24020781-007 | 240 | < | 0.03 | | 0.130 | < | 0.001 | | 0.007 | 6.9 | 528 | 171.0 | < | 0.01 | 0.00002 | 13.0 | 8.0 | 95.0 | 72.0 | 10.6 | | 11.7 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-007 | 261.4 | < | 0.03 | < | 0.002 | < | 0.001 | | 0.006 | 6.9 | 507 | 173.0 | | 0.03 | 0.00006 | 13.6 | 9.0 | 84.0 | 61.0 | 6.5 | | 6.5 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | 24102838-007 | 133 | < | 0.00 | | 0.012 | < | 0.001 | | 0.005 | 7.1 | 511 | 172.0 | | 0.06 | 0.00018 | 13.3 | 9.0 | 88.0 | 66.0 | 10.9 | | 1.5 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 27/11/24 | 24114228-007 | 260 | < | 0.03 | | 0.011 | < | 0.001 | | 0.005 | 7.2 | 580 | 198.0 | < | 0.01 | 0.00004 | 13.4 | 9.0 | 93.0 | 81.0 | 10.9 | | 1.2 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| **GW3A** | Jan-25 | 20/02/25 | 25020081-007 | 144 | < | 0.03 | < | 0.002 | < | 0.001 | < | 0.002 | 6.9 | 575 | 269.0 | | 0.02 | 0.00004 | 13.0 | 10.0 | <3 | <1 | 12.8 | | 0.9 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-007 | 160 | < | 0.03 | | 0.002 | < | 0.001 | | 0.002 | 7.2 | 584 | 217.0 | | 0.03 | 0.00013 | 14.8 | 85.0 | 89.0 | 85.0 | 1.1 | | 1.2 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-007 | 300 | < | 0.03 | | 0.011 | < | 0.001 | < | 0.002 | 7.1 | 615 | 196.0 | | 0.03 | 0.00009 | 13.6 | 10.0 | 92.0 | 79.0 | 8.7 | | 1.3 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| **GW4** | Jan-24 | 05/02/24 | 24020781-008 | 331 | < | 0.03 | | 1.880 | | 0.004 | | 0.006 | 6.7 | 296 | 60.5 | | 0.04 | 0.00004 | 9.3 | 8.0 | 77.0 | 18.0 | 8.1 | | 6.7 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-008 | 331.3 | < | 0.03 | | 1.450 | | 0.003 | | 0.009 | 6.8 | 295 | 64.5 | | 0.06 | 0.00007 | 10.1 | 8.0 | 68.0 | 15.0 | 8.7 | | 4.7 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | 24102838-008 | 133 | < | 0.03 | | 0.012 | < | 0.001 | | 0.005 | 7.1 | 511 | 172.0 | | 0.06 | 0.00014 | 10.1 | 9.0 | 88.0 | 66.0 | 10.9 | | 1.5 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 26/11/24 | 24114228-008 | 267 | < | 0.03 | | 2.120 | | 0.002 | | 0.006 | 6.8 | 295 | 60.5 | | 0.02 | 0.00002 | 9.2 | 8.0 | 72.0 | 17.0 | 10.1 | < | 0.4 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-25 | 20/02/25 | 25020081-008 | 269 | | 0.04 | | 1.710 | | 0.002 | | 0.005 | 6.6 | 290 | 147.0 | | 0.05 | 0.00004 | 9.4 | 9.0 | <3 | <1 | 10.8 | | 2.9 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-008 | 206 | < | 0.03 | | 1.600 | | 0.002 | | 0.004 | 293.0 | 293 | 66.6 | | 0.03 | 0.03000 | 10.5 | 8.0 | 71.0 | 17.0 | 10.4 | < | 0.4 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-008 | 282 | < | 0.03 | | 1.390 | | 0.002 | | 0.005 | 6.9 | 292 | 59.9 | | 0.02 | 0.00003 | 10.1 | 9.0 | 71.0 | 17.0 | 8.3 | < | 0.4 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | | | |

Groundwater monitoring results

| Location | Month | Date | Test reference number | Redox Potential | | Mercury, filtrate as Hg | | Manganese in filtrate as Mn | Nickel in filtrate as Ni | Zinc, ultra-low filtered as Zn | pH | Electrical Conductivity 20C | Alkalinity as CaCO3 | | Ammoniacal Nitrogen as N | | Unionised Ammoniacal Nitrogen *** | Measure water temperature | Chloride as Cl | Sulphate as SO4 | Calcium | D.O. concentration | TOC (Filtered) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mV | | ug/l | | mg/l | mg/l | mg/l | pH units | uS/cm | mg/l | | mg/l | | mg/l | °C | mg/l | mg/l | mg/l | mg/l | mg/l |
| | **Trigger Level** | | | | | **(0.2[a])** | | | **0.050** | **(0.05[a])** | -- | -- | -- | | **1** | | -- | -- | **250** | **400** | -- | -- | -- |
| | **Control Level A** | | | | | **(0.1[aa])** | | -- | **0.030** | **(0.02[aa])** | -- | -- | -- | | **0.8** | | -- | -- | **210** | **300** | -- | -- | -- |
| | **Control Level B** | | | | | **(0.15[aa])** | | -- | **0.040** | **(0.035[aa])** | -- | -- | -- | | **0.9** | | -- | -- | **230** | **350** | -- | -- | -- |
| | **Assessment Level** | | | | | -- | | **(1.0[a])** | -- | -- | -- | -- | | | | | -- | -- | -- | -- | -- | -- | -- |
| **DOWNSTREAM WELLS / COMPLIANCE WELLS** | | | | | | | | | | | | | | | | | | | | | | | |
| **SST West S2** | | | | | | | | | | | | | | | | | | | | | | | |
| **GW12** | Jan-24 | 05/02/24 | 24020781-013 | 316 | < | 0.03 | | 0.039 | 0.004 | 0.007 | 7.4 | 1450 | 384.0 | | 0.01 | | 0.00009 | 19.5 | 73.0 | 321.0 | 142.0 | 9.8 | 30.5 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-013 | 368.2 | < | 0.03 | | 0.038 | 0.004 | 0.003 | 7.5 | 1410 | 362.0 | < | 0.01 | | 0.00012 | 19.3 | 67 | 222.0 | 143 | 7.8 | 9.89 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | **24102838-013** | 254 | < | 0.03 | | 7.540 | 0.011 | 0.006 | 7.2 | 1670 | 400.0 | | 0.05 | | 0.00027 | 18.2 | 94.0 | 280.0 | 154.0 | 6.4 | 9.1 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 26/11/24 | 24114228-013 | 262 | < | 0.03 | | 3.090 | 0.006 | 0.005 | 7.2 | 1380 | 387.0 | | 0.30 | | 0.00156 | 17.7 | 67.0 | 221.0 | 139.0 | 9.4 | 6.1 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-25 | 20/02/25 | 25020081-013 | 343 | < | 0.03 | | 0.007 | 0.002 | 0.003 | 7.2 | 1130 | 386.0 | | 0.06 | | 0.00029 | 16.8 | 50.0 | <3 | <1 | 12.1 | 4.3 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-013 | 253 | < | 0.03 | | 0.002 | 0.005 | 0.004 | 7.6 | 1770 | 447.0 | | 0.01 | | 0.00012 | 17.2 | 101.0 | 286.0 | 162.0 | 11.6 | 7.0 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-013 | 88 | < | 0.03 | | 0.002 | 0.003 | 0.002 | 7.1 | 1700 | 374.0 | | 0.01 | | 0.00004 | 17.2 | 108.0 | 234.0 | 165.0 | 7.7 | 6,84 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | |
| **SST Centre** | | | | | | | | | | | | | | | | | | | | | | | |
| **GW6** | Jan-24 | 05/02/24 | 24020781-009 | 335 | < | 0.03 | | 0.883 | 0.005 | 0.005 | 6.5 | 871 | 247.0 | | 0.02 | | 0.00001 | 12.5 | 71.0 | 83.0 | 49.0 | 9.6 | 6.2 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-009 | 343 | < | 0.03 | | 0.207 | 0.004 | 0.007 | 6.5 | 892 | 253.0 | | 0.02 | | 0.00001 | 12.9 | 70 | 84 | 47 | 7.5 | 6.29 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | 24102838-009 | 236 | < | 0.03 | | 1.070 | 0.005 | 0.004 | 6.5 | 892 | 259.0 | | 0.09 | | 0.00006 | 12.3 | 70.0 | 81.0 | 50.0 | 10.8 | 3.7 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 26/11/24 | 24114228-009 | 256 | < | 0.03 | | 1.880 | 0.008 | 0.004 | 6.5 | 941 | 273.0 | | 0.04 | | 0.00003 | 12.1 | 70.0 | 88.0 | 52.0 | 10.2 | 3.5 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-25 | 20/02/25 | 25020081-009 | 272 | < | 0.03 | | 0.077 | 0.004 | 0.003 | 6.4 | 788 | 246.0 | | 0.01 | | 0.00001 | 11.9 | 69.0 | <3 | <1 | 11.6 | 5.8 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-009 | 244 | < | 0.03 | | 0.021 | 0.003 | 0.004 | 6.5 | 783 | 198.0 | | 0.05 | | 0.00003 | 12.2 | 68 | 79 | 30 | 11.2 | 2.44 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-009 | 246 | < | 0.03 | | 0.446 | 0.004 | < | 0.002 | 6.4 | 811 | 243.0 | | 0.02 | | 0.000011 | 12.2 | 67.0 | 78.0 | 41.0 | 9.7 | 3.0 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | |
| **GW7** | Jan-24 | 05/02/24 | 24020781-010 | 308 | < | 0.03 | | 1.090 | 0.003 | 0.003 | 7.2 | 827 | 276.0 | < | 0.01 | | 0.00003 | 12.3 | 36.0 | 91.0 | 94.0 | 9.6 | 5.5 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-010 | 326.3 | < | 0.03 | | 0.134 | 0.003 | 0.007 | 7.3 | 726 | 250.0 | < | 0.01 | | 0.00005 | 13.3 | 26 | 68 | 74 | 10 | 3.81 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | 24102838-010 | 213 | < | 0.03 | | 1.980 | 0.004 | 0.009 | 7.2 | 982 | 293.0 | | 0.24 | | 0.00082 | 12.0 | 56.0 | 135.0 | 98.0 | 10.5 | 5.8 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 26/11/24 | 24114228-010 | 249 | < | 0.03 | | 1.680 | 0.005 | 0.006 | 7.2 | 1000 | 293.0 | < | 0.01 | | 0.00003 | 11.6 | 57.0 | 134.0 | 96.0 | 10.2 | 5.2 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-25 | 20/02/25 | 25020081-010 | 296 | < | 0.03 | | 0.365 | 0.003 | 0.005 | 7.2 | 903 | 307.0 | < | 0.01 | | 0.00003 | 11.7 | 49.0 | <3 | <1 | 11.6 | 4.7 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-010 | 258 | < | 0.03 | | 0.173 | 0.003 | 0.007 | 7.3 | 883 | 282.0 | | 0.02 | | 0.00009 | 12.2 | 44 | 104 | 84 | 11.7 | 5.07 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-010 | 250 | < | 0.03 | | 0.265 | 0.003 | 0.003 | 7.2 | 952 | 277.0 | | 0.01 | | 0.00003 | 12.0 | 55.0 | 126.0 | 87.0 | 9.5 | 5.1 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | |

Groundwater monitoring results

| Location | Month | Date | Test reference number | Redox Potential | | Mercury, filtrate as Hg | | Manganese in filtrate as Mn | Nickel in filtrate as Ni | | Zinc, ultra-low filtered as Zn | | pH | Electrical Conductivity 20C | Alkalinity as CaCO3 | | Ammoniacal Nitrogen as N | | Unionised Ammoniacal Nitrogen *** | Measure water temperature | Chloride as Cl | Sulphate as SO4 | Calcium | D.O. concentration | TOC (Filtered) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | mV | | ug/l | | mg/l | mg/l | | mg/l | | pH units | uS/cm | mg/l | | mg/l | | mg/l | °C | mg/l | mg/l | mg/l | mg/l | mg/l |
| | **Trigger Level** | | | | | **(0.2[a])** | | | **0.050** | | **(0.05[a])** | | -- | -- | -- | | **1** | | -- | -- | **250** | **400** | -- | -- | -- |
| | **Control Level A** | | | | | **(0.1[aa])** | | -- | **0.030** | | **(0.02[aa])** | | -- | -- | -- | | **0.8** | | -- | -- | **210** | **300** | -- | -- | -- |
| | **Control Level B** | | | | | **(0.15[aa])** | | -- | **0.040** | | **(0.035[aa])** | | -- | -- | -- | | **0.9** | | -- | -- | **230** | **350** | -- | -- | -- |
| | **Assessment Level** | | | | | -- | | **(1.0[a])** | -- | | -- | | -- | -- | | | | | -- | -- | -- | -- | -- | -- | -- |
| **SST East S2** | | | | | | | | | | | | | | | | | | | | | | | | | |
| GW9 | Jan-24 | 05/02/24 | 24020781-011 | 328 | < | 0.03 | | 0.775 | 0.004 | | 0.008 | | 6.6 | 868 | 173.0 | | 4.70 | | 0.00391 | 11.6 | 63.0 | 24.0 | 48.0 | 8.6 | 10.8 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-011 | 340.1 | < | 0.03 | | 0.515 | 0.002 | | 0.010 | | 6.5 | 405 | 83.6 | | 0.7 | | 0.00048 | 12.2 | 21 | 17 | 27 | 2.9 | 7.02 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | 24102838-011 | 228 | < | 0.03 | | 0.567 | 0.003 | | 0.014 | | 6.3 | 740 | 77.4 | | 0.70 | | 0.00029 | 11.7 | 50.0 | 20.0 | 41.0 | 11.1 | 4.9 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 26/11/24 | 24114228-011 | 314 | < | 0.03 | | 1.250 | 0.004 | | 0.011 | | 6.4 | 1060 | 62.4 | | 3.70 | | 0.00194 | 11.6 | 57.0 | 20.0 | 50.0 | 6.2 | 3.2 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-25 | 20/02/25 | 25020081-011 | 345 | < | 0.03 | | 1.620 | 0.005 | | 0.005 | | 6.3 | 1150 | 200.0 | | 4.10 | | 0.00172 | 11.7 | 103.0 | <3 | <1 | 8.5 | 5.6 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-011 | 277 | < | 0.03 | | 0.044 | 0.002 | | 0.003 | | 6.9 | 694 | 162.0 | | 0.02 | | 0.00004 | 12.5 | 59 | 27 | 54 | 11.8 | 3.81 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-011 | 197 | < | 0.03 | < | 0.002 | 0.003 | < | 0.002 | | 7.5 | 1310 | 190.0 | < | 0.01 | | 0.00007 | 12.5 | 147.0 | 35.0 | 73.0 | 9.0 | 5.7 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| **SST East S3** | | | | | | | | | | | | | | | | | | | | | | | | | |
| GW10 | Jan-24 | 05/02/24 | 24020781-012 | 333 | < | 0.03 | | 2.310 | 0.008 | | 0.007 | | 6.9 | 528 | 194.0 | | 0.12 | | 0.00020 | 11.4 | 14.0 | 37.0 | 72.0 | 7.9 | 47.4 |
| | Feb-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-24 | 12/06/24 | 24052866-012 | 377.6 | < | 0.03 | | 2.090 | 0.008 | | 0.007 | | 6.9 | 549 | 2.4 | < | 0.1 | | 0.00016 | 10.8 | 11 | 30 | 75 | 8.3 | 9.14 |
| | May-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-24 | 17/10/24 | 24102838-012 | 215 | < | 0.03 | | 2.190 | 0.008 | | 0.005 | | 6.9 | 578 | 242.0 | | 0.70 | | 0.00115 | 11.5 | 7.0 | 36.0 | 83.0 | 10.2 | 6.1 |
| | Aug-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-24 | 26/11/24 | 24114228-012 | 169 | < | 0.03 | | 3.960 | 0.009 | | 0.003 | | 6.8 | 408 | 159.0 | | 0.40 | | 0.00054 | 11.8 | 8.0 | 27.0 | 59.0 | 6.9 | 4.5 |
| | Nov-24 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jan-25 | 20/02/25 | 25020081-012 | 355 | < | 0.03 | | 2.260 | 0.006 | | 0.003 | | 6.7 | 397 | 197.0 | | 0.03 | | 0.00003 | 10.8 | 8.0 | <3 | <1 | 11.9 | 2.8 |
| | Feb-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Mar-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Apr-25 | 13/05/25 | 25052696-012 | 289 | < | 0.003 | | 5.450 | 0.009 | | 0.003 | | 6.9 | 692 | 247.0 | | 0.05 | | 0.00008 | 10.6 | 23 | 41 | 73 | 10.4 | 5.48 |
| | May-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Jun-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Jul-25 | 30/07/25 | 25080614-012 | 17 | < | 0.003 | | 0.002 | 0.012 | | 0.003 | | 6.7 | 651 | 246.0 | | 0.60 | | 0.00058 | 10.5 | 25.0 | 40.0 | 65.0 | 3.9 | 7.8 |
| | Aug-25 | | Quarterly | | | | | | | | | | | | | | | | | | | | | | |
| | Sep-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Oct-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nov-25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dec-25 | | | | | | | | | | | | | | | | | | | | | | | | |

Exceedance of Control Level
Exceedance of Trigger Level
Exceedance of Assessment Level

Notes

* The redox potential was not measured on site and there is a possibility that it has changed between sampling and analysis.{*/}

** Unionised ammoniacal nitrogen based on measured Temperature and pH; unionised ammoniacal nitrogen = total ammonia/$(1+10^{(10.055-(0.0324*T°)-pH)})$, where T°C is measured water temperature.

^ Ammonia result confirmed on duplicate analysis.

**Landfill Gas Monitoring Results**

| | | METHANE (% by Volume) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Valve | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Jul-25 | Aug-25 | Sep-25 | Oct-25 | Nov-25 | Dec-25 |
| Date monitored | | 13-Jan | 11-Feb | 11-Mar | 16-Apr | 14-May | 19-Jun | 18-Jul | 08-Sep | 30-Sep | | | |
| GMW2 | Red Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 19.8 | 0 | 0 | | | |
| | White Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0.1 | 0 | pump fail | | | |
| | Trigger Levels | 1 | | | | | | | | | | | |
| | Control Levels | 0.5 | | | | | | | | | | | |
| | Trigger Level Red | - | | | | | | | | | | | |
| | Trigger Level Yellow | - | | | | | | | | | | | |
| | Trigger Level White | - | | | | | | | | | | | |
| | Control Level Red | - | | | | | | | | | | | |
| | Control Level Yellow | - | | | | | | | | | | | |
| | Control Level White | - | | | | | | | | | | | |
| GMW3 | Red Valve | 0.1 | 0.1 | 1.6 | 0.4 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Trigger Levels | 1 | | | | | | | | | | | |
| | Control Levels | 0.5 | | | | | | | | | | | |
| | Trigger Level Red | - | | | | | | | | | | | |
| | Trigger Level Yellow | - | | | | | | | | | | | |
| | Trigger Level White | - | | | | | | | | | | | |
| | Control Level Red | - | | | | | | | | | | | |
| | Control Level Yellow | - | | | | | | | | | | | |
| | Control Level White | - | | | | | | | | | | | |
| GMW4 | Red Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Trigger Levels | 1 | | | | | | | | | | | |
| | Control Levels | 0.5 | | | | | | | | | | | |
| | Trigger Level Red | - | | | | | | | | | | | |
| | Trigger Level Yellow | - | | | | | | | | | | | |
| | Trigger Level White | - | | | | | | | | | | | |
| | Control Level Red | - | | | | | | | | | | | |
| | Control Level Yellow | - | | | | | | | | | | | |
| | Control Level White | - | | | | | | | | | | | |
| GMW5 | Red Valve | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Trigger Levels | 1 | | | | | | | | | | | |
| | Control Levels | 0.5 | | | | | | | | | | | |
| | Trigger Level Red | - | | | | | | | | | | | |
| | Trigger Level Yellow | - | | | | | | | | | | | |
| | Trigger Level White | - | | | | | | | | | | | |
| | Control Level Red | - | | | | | | | | | | | |
| | Control Level Yellow | - | | | | | | | | | | | |
| | Control Level White | - | | | | | | | | | | | |
| GMW6 | Red Valve | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | pump fail | | | |
| | Yellow Valve | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Trigger Levels | 1 | | | | | | | | | | | |
| | Control Levels | 0.5 | | | | | | | | | | | |
| | Trigger Level Red | - | | | | | | | | | | | |
| | Trigger Level Yellow | - | | | | | | | | | | | |
| | Trigger Level White | - | | | | | | | | | | | |
| | Control Level Red | - | | | | | | | | | | | |
| | Control Level Yellow | - | | | | | | | | | | | |
| | Control Level White | - | | | | | | | | | | | |

| CARBON DIOXIDE (% by Volume) | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Jul-25 | Aug-25 | Sep-25 | Oct-25 | Nov-25 | Dec-25 | Comments | |
| 13-Jan | 11-Feb | 11-Mar | 16-Apr | 14-May | 19-Jun | 18-Jul | 08-Sep | 30-Sep | | | | | |
| 0.5 | 0.3 | 0.4 | 0.8 | 0.7 | 1.4 | 1.5 | 2.1 | 1.5 | | | | Red Valve, 25.5m depth | |
| 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 10.6 | 2.4 | 1.7 | | | | Yellow Valve,14m depth | |
| 0.1 | 0.1 | 8.3 | 3 | 0.8 | 2.2 | 0.3 | 3.4 | pump fail | | | | White Valve, 4m depth | |
| - | - | - | - | - | - | - | - | - | | - | - | Trigger Levels | |
| - | - | - | - | - | - | - | - | - | | - | - | Control Levels | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | GMW2 |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 0.6 | 7.1 | 1.7 | 3.6 | 4.1 | 5.2 | 2.1 | 0.6 | 1.7 | | | | Red Valve, 19m depth | |
| 0.1 | 0.1 | 0.3 | 1.6 | 1.3 | 3.8 | 2.3 | 0.4 | 1.1 | | | | Yellow Valve,9m depth | |
| 0.5 | 0.2 | 15.2 | 4.3 | 0.5 | 0.8 | 2 | 0.6 | 1 | | | | White Valve, 3.5m depth | |
| - | - | - | - | - | - | - | - | - | - | - | - | Trigger Levels | |
| - | - | - | - | - | - | - | - | - | - | - | - | Control Levels | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | GMW3 |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 0.2 | 0.1 | 0.1 | 0.4 | 0.4 | 0.9 | 2.9 | 0.8 | 0.3 | | | | Red Valve, 30m depth | |
| 0.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.7 | 2 | 0.8 | 0.2 | | | | Yellow Valve,20m depth | |
| 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.6 | 1.9 | 0.6 | 0.2 | | | | White Valve, 5m depth | |
| - | - | - | - | - | - | - | - | - | - | - | - | Trigger Levels | |
| - | - | - | - | - | - | - | - | - | - | - | - | Control Levels | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | GMW4 |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 2.1 | 5.4 | 5.2 | 4.2 | 3.8 | 4.3 | 1 | 3.5 | 4 | | | | Red Valve, 26.3m depth | |
| 0.4 | 2.7 | 1.6 | 0.9 | 1.1 | 0.2 | 0.7 | 0.7 | 0.6 | | | | Yellow Valve,15m depth | |
| 3.5 | 3.1 | 3.2 | 2.8 | 2.9 | 2 | 0.9 | 2.8 | 3.3 | | | | White Valve, 5m depth | |
| - | - | - | - | - | - | - | - | - | - | - | - | Trigger Levels | |
| - | - | - | - | - | - | - | - | - | - | - | - | Control Levels | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | GMW5 |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 2.1 | 2 | 2 | 2.4 | 2.4 | 3 | 4.1 | 4.9 | pump fail | | | | Red Valve, 26.3m depth | |
| 2.3 | 3.4 | 1.8 | 2.3 | 2.6 | 2.3 | 0.2 | 1.3 | 1.9 | | | | Yellow Valve,15m depth | |
| 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.3 | 2.3 | 2 | 1.7 | | | | White Valve, 5m depth | |
| - | - | - | - | - | - | - | - | - | - | - | - | Trigger Levels | |
| - | - | - | - | - | - | - | - | - | - | - | - | Control Levels | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | GMW6 |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |

**Landfill Gas Monitoring Results**

| | | METHANE (% by Volume) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Valve | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Jul-25 | Aug-25 | Sep-25 | Oct-25 | Nov-25 | Dec-25 |
| GMW7 | Yellow Valve | 0.1 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | | | |
| | White Valve | 0.1 | tap broke | tap broke | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Trigger Levels | 1 | | | | | | | | | | | |
| | Control Levels | 0.5 | | | | | | | | | | | |
| | Trigger Level Yellow | - | | | | | | | | | | | |
| | Trigger Level White | - | | | | | | | | | | | |
| | Control Level Yellow | - | | | | | | | | | | | |
| | Control Level White | - | | | | | | | | | | | |
| GMW12 | Red Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Trigger Level Red | 1.89 | | | | | | | | | | | |
| | Trigger Level Yellow | 1 | | | | | | | | | | | |
| | Trigger Level White | 1 | | | | | | | | | | | |
| | Control Level Red | 1.39 | | | | | | | | | | | |
| | Control Level Yellow | 0.5 | | | | | | | | | | | |
| | Control Level White | 0.5 | | | | | | | | | | | |
| GMW13 | Red Valve | 0.1 | 0.1 | 1.1 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Trigger Level Red | 1.14 | | | | | | | | | | | |
| | Trigger Level Yellow | 1.2 | | | | | | | | | | | |
| | Trigger Level White | 1 | | | | | | | | | | | |
| | Control Level Red | 0.64 | | | | | | | | | | | |
| | Control Level Yellow | 0.7 | | | | | | | | | | | |
| | Control Level White | 0.5 | | | | | | | | | | | |
| GMW14/14A | Red Valve | 0.1 | 0.1 | 0.3 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0 | 0.1 | 3.1 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0 | 0.1 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | Trigger Level Red | 1 | | | | | | | | | | | |
| | Trigger Level Yellow | 1.2 | | | | | | | | | | | |
| | Trigger Level White | 1.2 | | | | | | | | | | | |
| | Control Level Red | 0.5 | | | | | | | | | | | |
| | Control Level Yellow | 0.7 | | | | | | | | | | | |
| | Control Level White | 0.7 | | | | | | | | | | | |
| GMW1** | Red Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 1.8 | 1.5 | 1 | 6.8 | 5.9 | 15.3 | 0 | 1.1 | 32.3 | | | |
| | White Valve | 0.4 | 0.1 | 0.1 | 0.1 | 0.2 | 0 | 2.3 | 9 | pump fail | | | |
| GMW8* | Yellow Valve | 9.7 | 10.6 | 3.8 | 4.6 | 7 | 0 | 0 | 0.1 | 1.6 | | | |
| | White Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| GMW9* | Red Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 29.4 | 27.9 | 25.8 | 23.3 | 25 | 16.7 | 0 | 17.9 | 22.8 | | | |
| | White Valve | 0.1 | 0.1 | 0 | 0 | 0.1 | 0 | 0 | 0 | pump fail | | | |
| GMW10* | Red Valve | 1.6 | 1.2 | 1.5 | 1.4 | 1.4 | 1.4 | 0 | 3 | 0.1 | | | |
| | Yellow Valve | 9.4 | 9.7 | 9.2 | 10.1 | 10.1 | 11.3 | 15.5 | 0 | 0.1 | | | |
| | White Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0.4 | 2.6 | | | |
| GMW17** | Red Valve | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | Yellow Valve | 0.1 | 0 | 1.4 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0 | 0 | pump fail | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| GMW18** | Yellow Valve | 0.1 | 0.1 | pump fail | 0 | 0.1 | 0 | 0 | 0 | 0 | | | |
| | White Valve | 0 | 0 | 6.5 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

| | CARBON DIOXIDE (% by Volume) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Jul-25 | Aug-25 | Sep-25 | Oct-25 | Nov-25 | Dec-25 | Comments | |
| 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.7 | 4.5 | 0.6 | 0.2 | | | | Yellow Valve,12 depth | GMW7 |
| 0.2 | tap broke | tap broke | 0.7 | 0.6 | 1 | 2.3 | 0.7 | 0.4 | | | | White Valve, 5m depth | |
| No permit limit. | | | | | | | | | | | | Trigger Levels | |
| | | | | | | | | | | | | Control Levels | |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 0.6 | 2.3 | 0.6 | 1 | 1.3 | 1 | 1.1 | 1.3 | 1.8 | | | | Red Valve, 26.3m depth | GMW12 |
| 0.1 | 0.9 | 0.7 | 1 | 0.9 | 1.7 | 1.9 | 2 | 2.9 | | | | Yellow Valve,15m depth | |
| 0.1 | 1.4 | 0.1 | 0.5 | 0.7 | 0.6 | 1 | 0.9 | 0.9 | | | | White Valve, 5m depth | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.3 | 1.2 | | | | Red Valve, 26.3m depth | GMW13 |
| 5.3 | 6.2 | 6 | 5.6 | 5.6 | 5.4 | 1.9 | 5.6 | 4.9 | | | | Yellow Valve,15m depth | |
| 0.1 | 2.4 | 1.8 | 0.8 | 0.8 | 0 | 0.9 | 0.1 | 0.1 | | | | White Valve, 5m depth | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 0.6 | 1.8 | 20.4 | 0.5 | 0.8 | 0 | 1.2 | 1.3 | 1.1 | | | | Red Valve, 26.3m depth | GMW14/14A |
| 3.6 | 3.7 | 16.5 | 2.2 | 2.6 | 0.2 | 5.4 | 0.7 | 3.4 | | | | Yellow Valve,15m depth | |
| 0.4 | 1.7 | 19.2 | 1.4 | 1.4 | 2.3 | 0 | 0.1 | 0.3 | | | | White Valve, 5m depth | |
| No permit limit. | | | | | | | | | | | | Trigger Level Red | |
| | | | | | | | | | | | | Trigger Level Yellow | |
| | | | | | | | | | | | | Trigger Level White | |
| | | | | | | | | | | | | Control Level Red | |
| | | | | | | | | | | | | Control Level Yellow | |
| | | | | | | | | | | | | Control Level White | |
| 1.8 | 1.7 | 0.1 | 1.2 | 1.7 | 1.5 | 8.7 | 1.8 | 1.7 | | | | Red Valve, 23.5m depth | GMW1** |
| 1.6 | 1.2 | 1 | 4.3 | 3.8 | 9.1 | 0.9 | 2.8 | 9.8 | | | | Yellow Valve,14.7m depth | |
| 1 | 0.1 | 1.1 | 0.5 | 0.4 | 0.1 | 1.3 | 2.8 | pump fail | | | | White Valve, 6.5m depth | |
| 5.7 | 6.3 | 2.4 | 3 | 4.3 | 0.6 | 1.8 | 1.1 | 2.4 | | | | Yellow Valve,17.5m depth | GMW8* |
| 4.4 | 4.4 | 3.9 | 3.7 | 3.9 | 2.9 | 0.7 | 2.5 | 3.2 | | | | White Valve, 5.7m depth | |
| 1.6 | 1.2 | 1.5 | 1.4 | 1.4 | 1.4 | 0.8 | 0.2 | 0.8 | | | | Red Valve, 27m depth | GMW9* |
| 9.4 | 9.7 | 9.2 | 10.1 | 10.1 | 11.3 | 1.1 | 12 | 11.7 | | | | Yellow Valve,15m depth | |
| 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.9 | 0.2 | pump fail | | | | White Valve, 8.5m depth | |
| 2.8 | 0.7 | 2.6 | 2.1 | 1.9 | 1.9 | 0.4 | 1.4 | 8.5 | | | | Red Valve, 19.5m depth | GMW10* |
| 4.8 | 5.3 | 4.7 | 4.2 | 4.5 | 3.2 | 11.5 | 0.8 | 0.8 | | | | Yellow Valve,15m depth | |
| 2.2 | 4.5 | 3.3 | 2.7 | 2.8 | 1.9 | 0.1 | 8.2 | 1.1 | | | | White Valve, 8m depth | |
| 6.8 | 0.1 | 20.9 | 2 | 3 | 1.3 | 0.3 | 2.7 | 2.4 | | | | Red Valve, 26.3m depth | GMW17** |
| 1.4 | 1.3 | 15.3 | 2.2 | 2 | 3.4 | 0.1 | 2.4 | 5.3 | | | | Yellow Valve,15m depth | |
| 3.1 | 0.1 | pump fail | 0.9 | 1.2 | 0 | 2 | 0.1 | 2 | | | | White Valve, 5m depth | |
| 1 | 0.1 | pump fail | 0.3 | 0.4 | 0 | 3.2 | 0.1 | 0.1 | | | | Yellow Valve,12 depth | GMW18** |
| 6.4 | 5.2 | 17.2 | 5 | 5.1 | 3.3 | 2.9 | 3.1 | 5.5 | | | | White Valve, 5m depth | |

Notes:

1. Water denotes 'water in well - reading abandoned'.
2. NT denotes 'reading not taken'.
3. NT in GMW14 is due to cattle quarantine paddock around well location.
4. Where the asterisc (*) is present, no trigger levels have been set, as high levels of methane and carbon dioxide gas are recorded. This is likely to be associated with the presence of bog/marshland.
5. Where two asterisics (**) are present, no trigger levels have been set, as not require by the Permit (Reference [2]).

ntc - reading not taken due to cattle presence at location of the well

Exceedance of Trigger

Exceedance of Control

**BSC Pipe Monitoring**

| Date | BH1 | | BH2 | | BH3 | | BH4 | | Water column (m) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Water level depth (m) | Well depth to base (m) | Water level depth (m) | Well depth to base(m) | Water level depth (m) | Well depth to base (m) | Water level depth (m) | Well depth to base (m) | BH1 | BH2 | BH3 | BH4 |
| 04/04/2024 | 18.20 | 20.03 | 6.98 | 8.67 | 4.20 | 6.72 | 9.99 | 10.12 | 1.83 | 1.69 | 2.52 | 0.13 |
| 22/04/2024 | 18.32 | 20.02 | 7.01 | 8.68 | 4.44 | 6.74 | 10.00 | 10.02 | 1.70 | 1.67 | 2.30 | 0.02 |
| 26/04/2024 | 18.35 | 20.03 | 7.12 | 8.68 | 4.44 | 6.72 | 9.99 | 10.03 | 1.68 | 1.56 | 2.28 | 0.04 |
| 03/05/2024 | 18.39 | 20.03 | 7.91 | 8.69 | 4.46 | 6.73 | 10.02 | 10.12 | 1.64 | 0.78 | 2.27 | 0.10 |
| 10/05/2024 | 18.32 | 20.03 | 7.69 | 8.69 | 4.52 | 6.73 | 10.10 | 10.12 | 1.71 | 1.00 | 2.21 | 0.02 |
| 17/05/2024 | 18.42 | 20.03 | 7.78 | 8.69 | 4.92 | 6.73 | 10.01 | 10.12 | 1.61 | 0.91 | 1.81 | 0.11 |
| 24/05/2024 | 18.41 | 20.03 | 7.93 | 8.69 | 4.68 | 6.73 | 10.05 | 10.12 | 1.62 | 0.76 | 2.05 | 0.07 |
| 30/05/2024 | 18.43 | 20.03 | 8.03 | 8.69 | 4.70 | 6.73 | 10.03 | 10.12 | 1.60 | 0.66 | 2.03 | 0.09 |
| 13/06/2024 | 18.41 | 20.03 | 8.43 | 8.69 | 4.77 | 6.73 | 10.05 | 10.12 | 1.62 | 0.26 | 1.96 | 0.07 |
| 20/06/2024 | 18.38 | 20.03 | 7.90 | 8.69 | 4.82 | 6.73 | 9.99 | 10.12 | 1.65 | 0.79 | 1.91 | 0.13 |
| 28/06/2024 | 18.40 | 20.03 | 7.76 | 8.69 | 4.90 | 6.73 | 10.01 | 10.12 | 1.63 | 0.93 | 1.83 | 0.11 |
| 05/07/2024 | 18.41 | 20.03 | 7.79 | 8.69 | 4.86 | 6.73 | 10.08 | 10.12 | 1.62 | 0.90 | 1.87 | 0.04 |
| 06/07/2024 | 18.65 | 20.02 | 7.85 | 8.69 | 4.85 | 6.74 | 9.94 | 10.13 | 1.37 | 0.84 | 1.89 | 0.19 |
| 07/07/2024 | 18.61 | 20.02 | 7.9 | 8.69 | 4.8 | 6.74 | 9.98 | 10.13 | 1.41 | 0.79 | 1.94 | 0.15 |
| 08/07/2024 | 18.51 | 20.02 | 8.59 | 8.7 | 5.33 | 6.75 | 10.08 | 10.14 | 1.51 | 0.11 | 1.42 | 0.06 |
| 09/07/2024 | 18.6 | 20.01 | 8.1 | 8.69 | 5.31 | 6.74 | 10.09 | 10.13 | 1.41 | 0.59 | 1.43 | 0.04 |
| 10/07/2024 | 18.57 | 20.01 | 8.6 | 8.71 | 5.23 | 6.74 | 10.07 | 10.1 | 1.44 | 0.11 | 1.51 | 0.03 |
| 11/07/2024 | 18.7 | 20.02 | 7.79 | 8.69 | 4.98 | 6.72 | 10.01 | 10.13 | 1.32 | 0.9 | 1.74 | 0.12 |
| 12/07/2024 | 18.6 | 20.01 | 7.79 | 8.69 | 4.98 | 6.72 | 10.01 | 10.13 | 1.41 | 0.9 | 1.74 | 0.12 |
| 13/07/2024 | 18.56 | 20.01 | 7.8 | 8.67 | 4.92 | 6.74 | 9.96 | 10.12 | 1.45 | 0.87 | 1.82 | 0.16 |
| 14/07/2024 | 18.49 | 20.01 | 8.35 | 8.67 | 4.95 | 6.72 | 9.96 | 10.13 | 1.52 | 0.32 | 1.77 | 0.17 |
| 15/07/2024 | 18.49 | 20.01 | 8.35 | 8.67 | 4.95 | 6.72 | 9.96 | 10.13 | 1.52 | 0.32 | 1.77 | 0.17 |
| 16/07/2024 | 18.51 | 20.02 | 8.5 | 8.69 | 4.5 | 6.74 | 10.02 | 10.12 | 1.51 | 0.19 | 2.24 | 0.1 |
| 17/07/2024 | 18.62 | 20.02 | 8.52 | 8.69 | 5.15 | 6.73 | 10.03 | 10.12 | 1.4 | 0.17 | 1.58 | 0.09 |
| 18/07/2024 | 18.59 | 20.03 | 8.46 | 8.69 | 5 | 6.73 | 10.01 | 10.13 | 1.44 | 0.23 | 1.73 | 0.12 |
| 19/07/2024 | 18.5 | 20.02 | 7.49 | 8.69 | 4.8 | 6.73 | 10.01 | 10.12 | 1.52 | 1.2 | 1.93 | 0.11 |
| 20/07/2024 | 18.5 | 20.01 | 7.14 | 8.69 | 4.86 | 6.72 | 9.99 | 10.12 | 1.51 | 1.55 | 1.86 | 0.13 |
| 21/07/2024 | 18.52 | 20.01 | 7.14 | 8.61 | 4.3 | 6.72 | 9.99 | 10.13 | 1.49 | 1.47 | 2.42 | 0.14 |
| 22/07/2024 | 18.6 | 20.01 | 7.4 | 8.69 | 4.82 | 6.72 | 9.98 | 10.12 | 1.41 | 1.29 | 1.9 | 0.14 |
| 23/07/2024 | 18.49 | 20.03 | 6.91 | 8.69 | 4.88 | 6.73 | 10.01 | 10.13 | 1.54 | 1.78 | 1.85 | 0.12 |
| 24/07/2024 | 18.48 | 20.03 | 6.67 | 8.69 | 4.62 | 6.73 | 9.96 | 10.13 | 1.55 | 2.02 | 2.11 | 0.17 |
| 25/07/2024 | 18.5 | 20.03 | 6.7 | 8.69 | 4.68 | 6.73 | 9.99 | 10.13 | 1.53 | 1.99 | 2.05 | 0.14 |
| 26/07/2024 | 18.48 | 20.02 | 6.8 | 8.69 | 4.68 | 6.72 | 9.98 | 10.12 | 1.54 | 1.89 | 2.04 | 0.14 |
| 27/07/2024 | 18.51 | 20.02 | 6.72 | 8.67 | 4.7 | 6.73 | 10.1 | 10.13 | 1.51 | 1.95 | 2.03 | 0.03 |
| 28/07/2024 | 18.51 | 20.03 | 6.81 | 8.89 | 4.66 | 6.72 | 10.02 | 10.12 | 1.52 | 2.08 | 2.06 | 0.1 |
| 29/07/2024 | 18.48 | 20.02 | 7.1 | 8.68 | 4.58 | 6.73 | 9.97 | 10.12 | 1.54 | 1.58 | 2.15 | 0.15 |
| 30/07/2024 | 18.42 | 20 | 7.16 | 8.68 | 4.41 | 6.75 | 10 | 10.1 | 1.58 | 1.52 | 2.34 | 0.1 |
| 31/07/2024 | 18.43 | 20.03 | 7.01 | 8.68 | 4.5 | 6.75 | 9.98 | 10.12 | 1.6 | 1.67 | 2.25 | 0.14 |
| 01/08/2024 | 18.46 | 20.02 | 6.45 | 8.69 | 4.44 | 6.73 | 9.99 | 10.12 | 1.56 | 2.24 | 2.29 | 0.13 |
| 12/01/2024 | 18.39 | 20.02 | 6.56 | 8.68 | 4.27 | 6.74 | 9.9 | 10.1 | 1.63 | 2.12 | 2.47 | 0.2 |
| 19/01/2024 | 18.39 | 20.02 | 6.56 | 8.68 | 4.27 | 6.74 | 9.9 | 10.1 | 1.63 | 2.12 | 2.47 | 0.2 |
| 26/01/2024 | 18.46 | 20.03 | 7.01 | 8.69 | 4.58 | 6.74 | 9.98 | 10.12 | 1.57 | 1.68 | 2.16 | 0.14 |
| 02/02/2024 | 18.5 | 20.02 | 7.19 | 8.68 | 4.42 | 6.74 | 10 | 10.12 | 1.52 | 1.49 | 2.32 | 0.12 |
| 09/02/2024 | 18.51 | 20.02 | 7.27 | 8.68 | 4.6 | 6.74 | 10.1 | 10.12 | 1.51 | 1.41 | 2.14 | 0.02 |
| 16/02/2024 | 18.47 | 20.02 | 7.1 | 8.68 | 4.44 | 6.74 | 9.99 | 10.12 | 1.55 | 1.58 | 2.3 | 0.13 |
| 23/02/2024 | 18.46 | 20.03 | 6.75 | 8.68 | 4.46 | 6.74 | 9.97 | 10.12 | 1.57 | 1.93 | 2.28 | 0.15 |
| 01/03/2024 | 18.42 | 20.02 | 7.16 | 8.68 | 4.4 | 6.74 | 10 | 10.1 | 1.6 | 1.52 | 2.34 | 0.1 |
| 08/03/2024 | 18.39 | 20.03 | 6.92 | 8.68 | 4.36 | 6.74 | 9.94 | 10.13 | 1.64 | 1.76 | 2.38 | 0.19 |
| 15/03/2024 | 18.37 | 20.03 | 6.88 | 8.68 | 4.38 | 6.74 | 9.95 | 10.13 | 1.66 | 1.8 | 2.36 | 0.18 |
| 22/03/2024 | 18.4 | 20.03 | 6.99 | 8.68 | 4.41 | 6.74 | 9.9 | 10.02 | 1.63 | 1.69 | 2.33 | 0.12 |
| 29/03/2024 | 18.05 | 20.03 | 6.9 | 8.68 | 4.29 | 6.72 | 9.98 | 10.03 | 1.98 | 1.78 | 2.43 | 0.05 |
| 04/04/2024 | 18.2 | 20.03 | 6.98 | 8.67 | 4.2 | 6.72 | 9.99 | 10.12 | 1.83 | 1.69 | 2.52 | 0.13 |
| 22/04/2024 | 18.32 | 20.02 | 7.01 | 8.68 | 4.44 | 6.74 | 10 | 10.02 | 1.7 | 1.67 | 2.3 | 0.02 |
| 26/04/2024 | 18.35 | 20.03 | 7.12 | 8.68 | 4.44 | 6.72 | 9.99 | 10.03 | 1.68 | 1.56 | 2.28 | 0.04 |
| 03/05/2024 | 18.39 | 20.03 | 7.91 | 8.69 | 4.46 | 6.73 | 10.02 | 10.12 | 1.64 | 0.78 | 2.27 | 0.1 |
| 10/05/2024 | 18.32 | 20.03 | 7.69 | 8.69 | 4.52 | 6.73 | 10.1 | 10.12 | 1.71 | 1 | 2.21 | 0.02 |
| 17/05/2024 | 18.42 | 20.03 | 7.78 | 8.69 | 4.92 | 6.73 | 10.01 | 10.12 | 1.61 | 0.91 | 1.81 | 0.11 |
| 24/05/2024 | 18.41 | 20.03 | 7.93 | 8.69 | 4.68 | 6.73 | 10.05 | 10.12 | 1.62 | 0.76 | 2.05 | 0.07 |
| 30/05/2024 | 18.43 | 20.03 | 8.03 | 8.69 | 4.7 | 6.73 | 10.03 | 10.12 | 1.6 | 0.66 | 2.03 | 0.09 |
| 13/06/2024 | 18.41 | 20.03 | 8.43 | 8.69 | 4.77 | 6.73 | 10.05 | 10.12 | 1.62 | 0.26 | 1.96 | 0.07 |
| 20/06/2024 | 18.38 | 20.03 | 7.9 | 8.69 | 4.82 | 6.73 | 9.99 | 10.12 | 1.65 | 0.79 | 1.91 | 0.13 |
| 28/06/2024 | 18.4 | 20.03 | 7.76 | 8.69 | 4.9 | 6.73 | 10.01 | 10.12 | 1.63 | 0.93 | 1.83 | 0.11 |
| 05/07/2024 | 18.41 | 20.03 | 7.79 | 8.69 | 4.86 | 6.73 | 10.08 | 10.12 | 1.62 | 0.9 | 1.87 | 0.04 |
| 12/07/2024 | 18.62 | 20.03 | 8.52 | 8.69 | 5.15 | 6.73 | 10 | 10.12 | 1.41 | 0.17 | 1.58 | 0.12 |
| 19/07/2024 | 18.5 | 20.03 | 8.36 | 8.69 | 4.99 | 6.73 | 9.99 | 10.12 | 1.53 | 0.33 | 1.74 | 0.13 |
| 26/07/2024 | 18.41 | 20.03 | 7.9 | 8.69 | 4.86 | 6.73 | 10.01 | 10.12 | 1.62 | 0.79 | 1.87 | 0.11 |
| 02/08/2024 | 18.39 | 20.03 | 7.98 | 8.69 | 4.81 | 6.73 | 10.02 | 10.12 | 1.64 | 0.71 | 1.92 | 0.1 |
| 09/08/2024 | 18.42 | 20.03 | 8.01 | 8.69 | 4.88 | 6.73 | 10 | 10.12 | 1.61 | 0.68 | 1.85 | 0.12 |

**BSC Pipe Monitoring**

| Date | BH1 | | BH2 | | BH3 | | BH4 | | Water column (m) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Water level depth (m) | Well depth to base (m) | Water level depth (m) | Well depth to base(m) | Water level depth (m) | Well depth to base (m) | Water level depth (m) | Well depth to base (m) | BH1 | BH2 | BH3 | BH4 |
| 16/08/2024 | 18.38 | 20.03 | 7.87 | 8.69 | 4.93 | 6.73 | 10.01 | 10.12 | 1.65 | 0.82 | 1.8 | 0.11 |
| 23/08/2024 | 18.65 | 20.03 | 7.9 | 8.69 | 4.98 | 6.73 | 9.99 | 10.12 | 1.38 | 0.79 | 1.75 | 0.13 |
| 30/08/2024 | 18.45 | 20.03 | 7.79 | 8.69 | 5.36 | 6.73 | 9.96 | 10.12 | 1.58 | 0.9 | 1.37 | 0.16 |
| 06/09/2024 | 18.39 | 20.03 | 7.9 | 8.68 | 4.38 | 6.73 | 9.98 | 10.13 | 1.64 | 0.78 | 2.35 | 0.15 |
| 12/09/2024 | 18.4 | 20.02 | 6.9 | 8.62 | 4.99 | 6.73 | 10.01 | 10.02 | 1.62 | 1.72 | 1.74 | 0.01 |
| 20/09/2024 | 18.64 | 20.03 | 7.9 | 8.69 | 5.1 | 6.73 | 9.98 | 10.13 | 1.39 | 0.79 | 1.63 | 0.15 |
| 27/09/2024 | 18.68 | 20.02 | 6.99 | 8.67 | 5.09 | 6.73 | 10 | 10.02 | 1.34 | 1.68 | 1.64 | 0.02 |
| 04/10/2024 | 18.63 | 20.04 | 6.9 | 8.67 | 5.11 | 6.74 | 10 | 10.12 | 1.41 | 1.77 | 1.63 | 0.12 |
| 11/10/2024 | 18.66 | 20.03 | 7.3 | 8.67 | 5 | 6.74 | 9.9 | 10.12 | 1.37 | 1.37 | 1.74 | 0.22 |
| 18/10/2024 | 18.6 | 20.2 | 7.85 | 8.67 | 4.9 | 6.74 | 9.7 | 10.12 | 1.6 | 0.82 | 1.84 | 0.42 |
| 25/10/2024 | 18.50 | 20.80 | 7.75 | 8.70 | 4.78 | 6.76 | 9.22 | 10.10 | 2.30 | 0.95 | 1.98 | 0.88 |
| 01/11/2024 | 18.64 | 20.02 | 7.50 | 8.68 | 4.65 | 6.74 | 9.82 | 10.02 | 1.38 | 1.18 | 2.09 | 0.20 |
| 08/11/2024 | 18.44 | 20.06 | 7.73 | 8.68 | 4.80 | 6.76 | 9.28 | 10.04 | 1.62 | 0.95 | 1.96 | 0.76 |
| 15/11/2024 | 18.52 | 20.04 | 7.71 | 8.64 | 4.76 | 6.78 | 9.24 | 10.06 | 1.52 | 0.93 | 2.02 | 0.82 |
| 22/11/2024 | 18.54 | 20.06 | 7.68 | 8.68 | 4.70 | 6.76 | 9.22 | 10.06 | 1.52 | 1.00 | 2.06 | 0.84 |
| 29/11/2024 | 18.47 | 20.08 | 7.78 | 8.76 | 4.84 | 6.74 | 9.72 | 10.60 | 1.61 | 0.98 | 1.90 | 0.88 |
| 09/12/2024 | 18.52 | 20.06 | 7.74 | 8.74 | 4.90 | 6.74 | 9.78 | 10.04 | 1.54 | 1.00 | 1.84 | 0.26 |
| 16/12/2024 | 18.48 | 20.80 | 7.78 | 8.76 | 4.82 | 6.74 | 9.72 | 10.02 | 2.32 | 0.98 | 1.92 | 0.30 |
| 23/12/2024 | 18.92 | 20.04 | 7.69 | 8.76 | 4.88 | 6.72 | 9.76 | 10.04 | 1.12 | 1.07 | 1.84 | 0.28 |
| 03/01/2025 | 18.41 | 20.02 | 7.79 | 8.69 | 4.95 | 6.73 | 10.02 | 10.12 | 1.61 | 0.90 | 1.78 | 0.10 |
| 10/01/2025 | 18.38 | 20.04 | 7.78 | 8.70 | 4.92 | 6.74 | 10.04 | 10.10 | 1.66 | 0.92 | 1.82 | 0.06 |
| 15/01/2025 | 18.52 | 20.05 | 7.75 | 8.68 | 4.94 | 6.94 | 10.05 | 10.12 | 1.53 | 0.93 | 2.00 | 0.07 |
| 24/01/2025 | 18.40 | 20.04 | 7.78 | 8.69 | 4.93 | 6.72 | 10.04 | 10.12 | 1.64 | 0.91 | 1.79 | 0.08 |
| 29/01/2025 | 18.41 | 20.06 | 7.70 | 8.68 | 4.90 | 6.74 | 10.02 | 10.14 | 1.65 | 0.98 | 1.84 | 0.12 |
| 07/02/2025 | 18.48 | 20.04 | 7.70 | 8.70 | 4.72 | 6.71 | 10.04 | 10.14 | 1.56 | 1.00 | 1.99 | 0.10 |
| 14/02/2025 | 18.40 | 20.02 | 7.72 | 8.74 | 4.92 | 6.72 | 10.02 | 10.12 | 1.62 | 1.02 | 1.80 | 0.10 |
| 21/02/2025 | 18.44 | 20.02 | 7.70 | 8.70 | 4.90 | 6.72 | 10.05 | 10.14 | 1.58 | 1.00 | 1.82 | 0.09 |
| 07/03/2025 | 18.50 | 20.02 | 7.70 | 8.72 | 4.90 | 6.74 | 10.02 | 10.12 | 1.52 | 1.02 | 1.84 | 0.10 |
| 14/03/2025 | 18.42 | 20.02 | 7.72 | 8.72 | 4.90 | 6.74 | 10.02 | 10.10 | 1.60 | 1.00 | 1.84 | 0.08 |
| 21/03/2025 | 18.40 | 20.02 | 7.79 | 8.69 | 4.93 | 6.72 | 10.04 | 10.14 | 1.62 | 0.90 | 1.79 | 0.10 |
| 28/03/2025 | 18.42 | 20.02 | 7.77 | 8.69 | 4.92 | 6.74 | 10.02 | 10.12 | 1.60 | 0.92 | 1.82 | 0.10 |
| 04/04/2025 | 18.40 | 20.04 | 7.78 | 8.68 | 4.94 | 5.74 | 10.02 | 10.14 | 1.64 | 0.90 | 0.80 | 0.12 |
| 11/04/2025 | 18.38 | 20.04 | 7.74 | 8.68 | 4.96 | 6.76 | 10.02 | 10.12 | 1.66 | 0.94 | 1.80 | 0.10 |
| 18/04/2025 | 18.48 | 20.02 | 7.78 | 8.68 | 4.94 | 6.78 | 10.04 | 10.14 | 1.54 | 0.90 | 1.84 | 0.10 |
| 25/04/2025 | 18.40 | 20.04 | 7.76 | 8.64 | 4.93 | 6.79 | 10.02 | 10.14 | 1.64 | 0.88 | 1.86 | 0.12 |
| 02/05/2025 | 18.59 | 20.02 | 7.78 | 8.69 | 5.23 | 6.75 | 10.03 | 10.11 | 1.43 | 0.91 | 1.52 | 0.08 |
| 09/05/2025 | 18.48 | 20.03 | 7.80 | 8.68 | 5.01 | 6.72 | 10.03 | 10.12 | 1.55 | 0.88 | 1.71 | 0.09 |
| 16/05/2025 | 18.50 | 20.03 | 7.86 | 8.67 | 5.08 | 6.72 | 10.10 | 10.12 | 1.53 | 0.81 | 1.64 | 0.02 |
| 23/05/2025 | 18.56 | 20.04 | 8.62 | 8.68 | 5.12 | 6.76 | 10.06 | 10.12 | 1.48 | 0.06 | 1.64 | 0.06 |
| 30/05/2025 | 18.54 | 20.02 | 8.54 | 8.69 | 5.08 | 6.74 | 10.04 | 10.12 | 1.48 | 0.15 | 1.66 | 0.08 |
| 05/06/2025 | 18.65 | 20.04 | 8.49 | 8.66 | 5.18 | 6.74 | 10.04 | 10.12 | 1.39 | 0.17 | 1.56 | 0.08 |
| 13/06/2025 | 18.48 | 20.02 | 8.42 | 8.68 | 5.45 | 6.77 | 10.02 | 10.12 | 1.54 | 0.26 | 1.32 | 0.10 |
| 20/06/2025 | 18.62 | 20.04 | 8.50 | 8.66 | 5.46 | 6.72 | 9.84 | 10.10 | 1.42 | 0.16 | 1.26 | 0.26 |
| 27/06/2025 | 18.56 | 20.02 | 8.60 | 8.66 | 5.52 | 6.72 | 10.04 | 10.14 | 1.46 | 0.06 | 1.20 | 0.10 |
| 04/07/2025 | 18.60 | 20.04 | 8.20 | 8.67 | 5.49 | 6.72 | 10.02 | 10.12 | 1.44 | 0.47 | 1.23 | 0.10 |
| 11/07/2025 | 18.52 | 20.04 | 8.30 | 8.67 | 5.50 | 6.70 | 10.04 | 10.12 | 1.52 | 0.37 | 1.20 | 0.08 |
| 18/07/2025 | 18.62 | 20.02 | 8.26 | 8.66 | 5.52 | 6.72 | 10.00 | 10.12 | 1.40 | 0.40 | 1.20 | 0.12 |
| 25/07/2025 | 18.61 | 20.02 | 8.29 | 8.70 | 5.56 | 6.74 | 10.04 | 10.12 | 1.41 | 0.41 | 1.18 | 0.08 |
| 01/08/2025 | 18.60 | 20.02 | 8.34 | 8.70 | 5.49 | 6.74 | 10.05 | 10.12 | 1.42 | 0.36 | 1.25 | 0.07 |
| 08/08/2025 | 18.59 | 20.02 | 8.48 | 8.71 | 5.43 | 6.74 | 10.01 | 10.12 | 1.43 | 0.23 | 1.31 | 0.11 |
| 15/08/2025 | 18.59 | 20.02 | 8.39 | 8.70 | 5.49 | 6.74 | 10.03 | 10.13 | 1.43 | 0.31 | 1.25 | 0.10 |
| 22/08/2025 | 18.50 | 20.01 | 8.41 | 8.70 | 5.55 | 6.74 | 10.02 | 10.13 | 1.51 | 0.29 | 1.19 | 0.11 |
| 28/08/2025 | 18.56 | 20.02 | 8.49 | 8.71 | 5.44 | 6.73 | 10.02 | 10.12 | 1.46 | 0.22 | 1.29 | 0.10 |
| 05/09/2025 | 18.60 | 20.02 | 8.09 | 8.66 | 5.60 | 6.72 | 10.01 | 10.12 | 1.42 | 0.57 | 1.12 | 0.11 |
| 19/09/2021 | 18.59 | 20.02 | 8.11 | 8.66 | 5.10 | 6.74 | 10.20 | 10.12 | 1.43 | 0.55 | 1.64 | -0.08 |
| 26/09/2025 | 18.59 | 20.02 | 8.01 | 8.66 | 5.41 | 6.74 | 10.03 | 10.13 | 1.43 | 0.65 | 1.33 | 0.10 |
| 03/10/2025 | 18.61 | 20.02 | 8.09 | 8.64 | 4.99 | 6.74 | 10.02 | 10.12 | 1.41 | 0.55 | 1.75 | 0.10 |
| 09/10/2025 | 18.49 | 20.02 | 7.98 | 8.66 | 5.01 | 6.74 | 10.01 | 10.12 | 1.53 | 0.68 | 1.73 | 0.11 |