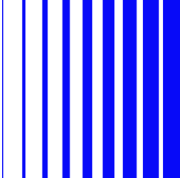


ALDON LANDFILL SITE

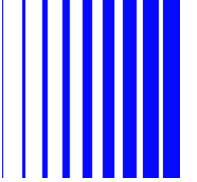
PROPOSED MONITORING MANAGEMENT PLAN

JUNE 2026

Site	Aldon Landfill Site
Document Title	Aldon Proposed Monitoring Management Plan June 2026
Prepared by	Kate Jones – Senior Permit Manager
Reviewed by	Richard Watkins - EIR Manager South Chris Dussek – National Hydrogeology Manager Ken Yarrow - Operations Manager Central West
Approved by	Ken Yarrow - Operations Manager Central West
Location of controlled copy	1. Environment Department Folder 2. Environmental Permits Folder



Date	Description and Summary of Changes
August 1993	Original waste disposal license issued.
October 2013	Complete Revision.
August 2018	Reformat and complete revision. Flow, vegetation dieback, and (internal) in-waste gas monitoring added. Perimeter gas and leachate level contingencies formalised.
September 2019	Level requirement removed from AL1/03W as this is not a borehole.
June 2026	Reformat and amendment of reporting quarters to match standard calendar.
June 2026	Proposed MMP to support permit variation



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1. Introduction
2. Monitoring Regime
3. Compliance Limits
4. Contingency Action Plans

FIGURES

Figure 1. Monitoring Location Plan

1. INTRODUCTION

- 1.1. This Monitoring Management Plan (MMP) for Aldon (the Site) has been produced to support a permit variation which seeks to remove the requirement to actively manage leachate at the site.
- 1.2. The proposed Environmental Monitoring regime is detailed in Section 2. Compliance Limits are detailed in Section 3. Contingency Actions will be implemented if a compliance limit, is breached as detailed in Section 4. Locations of monitoring points are shown in Figure 1.
- 1.3. SUEZ has internal procedures for the monitoring and sampling of landfill gases, surface waters, groundwater and leachate. Copies are available upon request. These procedures will be adhered to in monitoring at the site:
 - i. G01 – Procedure to Measure Landfill and Subterranean Gas
 - ii. L01 – Procedure to Measure Liquid Levels
 - iii. S01 – Procedure to Sample Liquids
 - iv. A01 – Procedure to Measure Surface Emissions in Air
- 1.4. SUEZ are certified to ISO 9001, 14001 and 45001 standards.
- 1.5. A suitable UKAS accredited laboratory will carry out all aqueous sample analysis. Approved suppliers will be used for any other analysis requirements.
- 1.6. All monitoring data and sampling results are stored electronically on a SUEZ monitoring database, which is backed up daily and stored for a minimum period of 6 years.
- 1.7. Monitoring data will be sent to the Environment Agency, as per the table below.

Parameter	Monitoring Freq	Reporting Freq	Submission Date
Quarterly Monitoring and Reporting	1 Jan to 31 March	1 Jan to 31 March	28 April
	1 April to 30 June	1 April to 30 June	28 July
	1 July to 30 Sept	1 July to 30 Sept	28 October
	1 Oct to 31 Dec	1 Oct to 31 Dec	28 January
Annual Requirements	1 Jan to 31 Dec	N/A	N/A

- 1.8 For 3 years following approval of the permit variation, an annual interpretive report will be submitted to the Environment Agency by 30 April each year, covering a reporting period of 1 January to 31 December. Thereafter, interpretive reporting will take place on a 3-yearly basis, covering the same reporting periods and deadlines.
- 1.9 Monitoring periods, reporting periods and report submission deadline dates may differ from the permit following agreement with the Environment Agency.

2. MONITORING REGIME

Leachate		
Monitoring Points	Frequency	Determinands
AL2/04L, AL5/01L, AL/03L and AL/04L	Quarterly	Leachate Level
	Annually	Dip to base
AL5/01L	Annually	Ammoniacal Nitrogen, BOD, Cadmium, Calcium, COD, Chloride, Copper, Chromium, Electrical Conductivity, Iron, Lead, Magnesium, Manganese, Nickel, pH, Potassium, Sodium, Sulphate, Zinc, BTEX substances

Groundwater		
Monitoring Points	Frequency	Determinands
<u>Up-gradient</u> AL1/03W	Annually	Ammoniacal nitrogen, chloride, electrical conductivity, pH, calcium, magnesium, potassium, sulphate, sodium, arsenic, cadmium, chromium, copper, iron, lead, manganese, nickel, zinc, BTEX substances
<u>Down / Cross gradient</u> AL1/01W, AL1/02W, AL1/04W	Quarterly ¹	Ammoniacal nitrogen, chloride, electrical conductivity, pH Water level
	Annually	<i>As above plus:</i> calcium, magnesium, potassium, sulphate, sodium, arsenic, cadmium, chromium, copper, iron, lead, manganese, nickel, zinc, BTEX substances Depth to base (m)

Note 1 – Monitoring frequency to be reviewed after a period of 6 years post ending of active leachate management

Surface Water		
Monitoring Points	Frequency	Determinands
AL7/01W, AL7/02W	Quarterly	Ammoniacal nitrogen, chloride, pH, suspended solids, visual oils.
	Annually	<i>As above plus:</i> calcium, magnesium, potassium, sulphate, sodium, arsenic, cadmium, chromium, copper, iron, lead, manganese, nickel, zinc, BTEX substances.

Perimeter Gas		
Monitoring Points	Frequency	Determinands
AL/02H, AL/02L, AL/03, AL/04, AL/05, AL/06, AL/07H, AL/07L, AL/08, AL/09, AL/10, AL/11, L/12H, AL/12L, AL/13, AL/14, AL/15, AL/16, AL/18, AL/19H, AL/19L, AL/20, AL/21, AL/22, AL/23H, AL/23L, AL/24, AL/25, AL/26, AL/27, AL/28H, AL/28L, AL/29, AL/30, AL/31, AL/32, AL/33H, AL/33L, AL/34, AL/35, AL/36, AL/37H, AL/37L, AL/38, AL/39	Quarterly	Methane, Carbon Dioxide, Oxygen, Atmospheric Pressure, Flow, Meteorological Data, Vegetation Dieback

In-Waste Gas (Internal Requirement)		
Monitoring Points	Frequency	Determinands
In-waste gas vents	6 Monthly	Methane, Carbon Dioxide, Oxygen, Atmospheric Pressure, Flow, Meteorological Data.

3. COMPLIANCE LIMITS / ACTION LEVELS

Hazardous Gas Flow Rate (GSV) Action Level and Compliance Limits			
Monitoring Point	Methane GSV (l/h)		Carbon Dioxide GSV (l/h)
	Action Level	Compliance Limit	Action Level
AL/02H, AL/02L, AL/03, AL/04, AL/05, AL/06, AL/07H, AL/07L, AL/08, AL/09, AL/10, AL/11, AL/12H, AL/12L, AL/13, AL/14, AL/15, AL/16, AL/18, AL/19H, AL/19L, AL/20, AL/21, AL/22, AL/23H, AL/23L, AL/24, AL/25, AL/26, AL/27, AL/28H, AL/28L, AL/29, AL/30, AL/31, AL/32, AL/33H, AL/33L, AL/34, AL/35, AL/36, AL/37H, AL/37L, AL/38, AL/39	0.07	0.5	0.07

Leachate Action Levels	
Monitoring Point	Action Level
AL2/04L, AL5/01L	245m AOD

Groundwater Quality Action Levels		
Monitoring Point	Parameter	Action Level (mg/l)
AL1/01W	Ammoniacal nitrogen	12
	Chloride	50
AL1/02W	Ammoniacal nitrogen	0.5
	Chloride	30

4. CONTINGENCY ACTIONS

Leachate Level – Action Level Exceedance		
On exceeding the Leachate Action Level	Response Time	Responsibility
Notify Site Management, Technical Team and EIR Team.	24 hours	Aftercare Team
Confirm data and trends over time	7 days	Aftercare Team / Site Management
Define the actions required to reinstate active leachate extraction from the Site	28 days	Aftercare Team / Site Management
Complete a preliminary assessment of causes / risk associated with rise in leachate level(s)	28 days	Aftercare Team / Technical Team
Notify the EA of findings and proposed outcomes should active leachate management be required	2 months	Site Management/EIR Team

Groundwater – Action Level Exceedance		
Contingency Action	Response Time	Responsibility
Notify Site Management, Technical Team and EIR Team.	24 hours	Aftercare Team
Check with the laboratory to confirm the accuracy of the results and QA procedures	1 week	Aftercare Team
Where required, undertake a repeat sample following return of the laboratory data	1 months	Aftercare Team
In the event of three consecutive exceedances, inform the EA and complete an internal technical review of groundwater network and assess risk to the environment	3 months	Site Management/EIR Team

Methane Compliance Limit Exceedance		
Contingency Action	Response Time	Responsibility
Inform the Area Operations Manager	24 hours	Aftercare Team
Confirm calibration and QA procedures for equipment used	48 hours	Aftercare Team
Inform the Environment Agency	72 hours	Aftercare Team / EIR Team
Assess the potential origins of the change in data and risk status	1 week	EIR Team / Technical Team
Complete repeat monitoring visit	2 weeks	Aftercare Team
Update the Environment Agency	1 month	EIR Team

Methane or Carbon Dioxide Action Level Exceedance		
Contingency Action	Response Time	Responsibility
Inform the Area Operations Manager	24 hours	Aftercare Team
Record internally	48 hours	Aftercare Team
Confirm calibration and QA procedures for equipment used	48 hours	Aftercare Team
Complete trend analysis	1 week	EIR Team / Technical Team

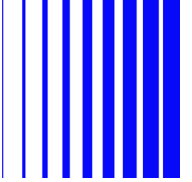
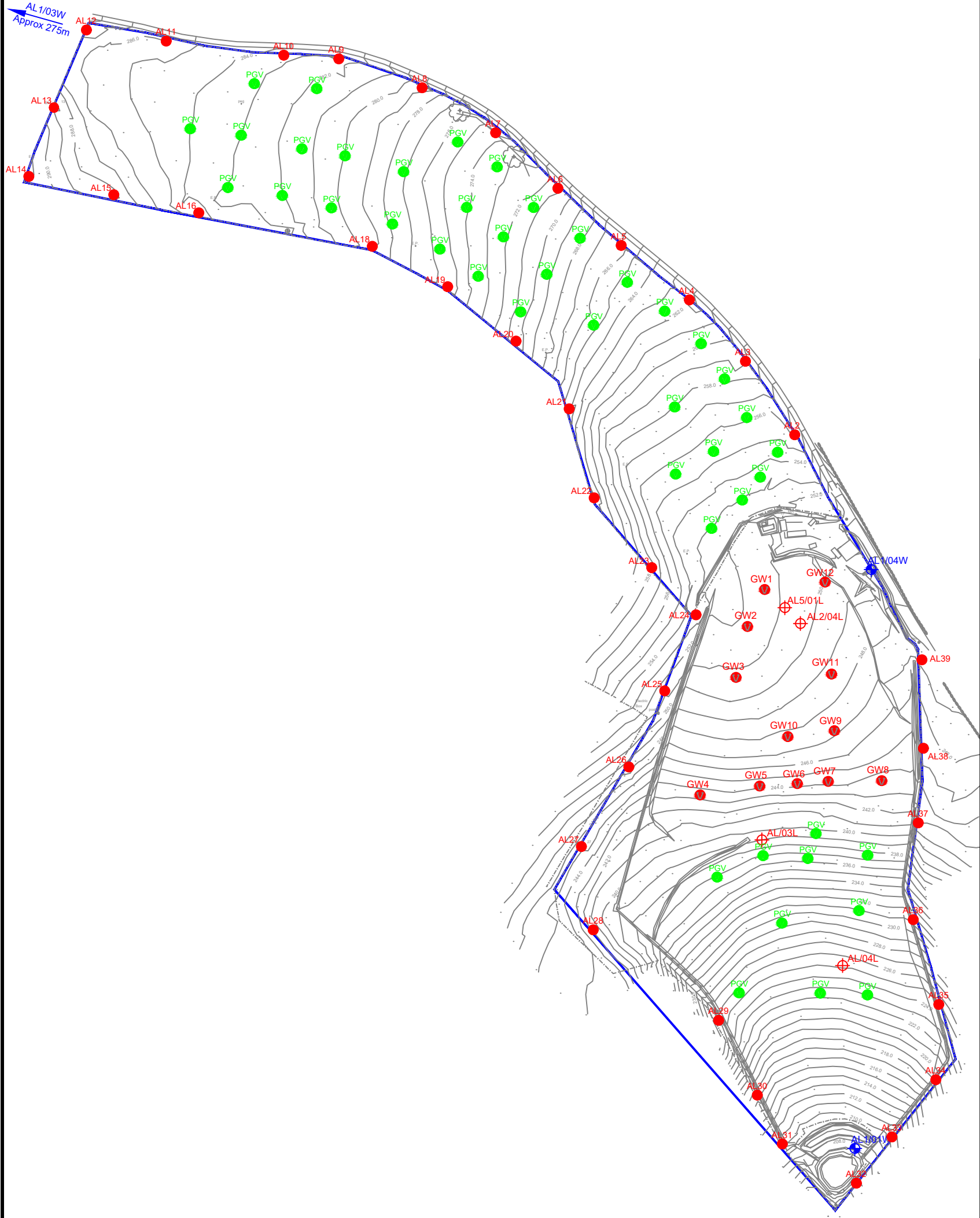


Figure 1

Monitoring Location Plan



- Notes
1. Reproduced from the Ordnance Survey Map with the permission of the Controller of His Majesty's Stationary Office, Crown Copyright and Database Rights 2025 Ordnance Survey AC0000808122/100004910.
- PPC Boundary and Licence Boundary WML 479
 - Groundwater Monitoring Point
 - Gas Monitoring Point
 - Leachate Monitoring Point
 - Surface Water Monitoring Point
 - GW1 Gas Vent
 - PGW Passive Gas Vent

Rev	subject	date



Darwen Resource Recovery Park, Lower Eccleshill Road, Darwen, BB3 0RP
Tel: (01254) 819700, Fax: (01254) 819749, Email: richard.bisset@suez.co.uk

Site	
Aldon Landfill Site	
Title	
Site Monitoring Plan	
Scale	
1:2500 on A3	
Date	
March 2026	
Drawing Ref	Drawn by
Ald-P4-0326-01	RB
	Checked by
	TW