

DONEGAL COUNTY COUNCIL

Specification for Mechanical, Electrical, Instrumentation, Control and Automation (MEICA) Support Services for Licensed Landfills in County Donegal

Tender Specification Documentation — Year 2026

1. Introduction

Donegal County Council requires professional support services to ensure absolute, ongoing compliance with all conditions and statutory terms of the Waste Licences established for each of the following six closed municipal landfill facilities within the county:

- Ballynacarrick Landfill Site (LS), Ballintra
- Balbane LS, Killybegs
- Churchtown LS, Lifford
- Drumaboden LS, Kilmacrennan
- Glenalla LS, Rathmullen
- Muckish LS, Falcarragh

To protect environmental quality and satisfy environmental regulatory directives, robust pollution control infrastructure operates across these sites. This layout includes sophisticated Supervisory Control and Data Acquisition (SCADA) industrial networks active across multiple installations. The Council intends to engage a highly competent, responsive MEICA systems contractor. The chosen service provider will deliver rapid response troubleshooting, comprehensive preventative care, and tactical component updates to guarantee seamless continuous operational runtime.

2. Scope of Services

The technical scope encompasses all items listed below across electrical, instrumentation, and mechanical systems frameworks.

Electrical, Instrumentation, Control & Automation Works:

- Electrical engineering, setup, and structural wiring for cavity displacement, submersible, and surface-mounted leachate pumping equipment.
- General corporate commercial electrical upkeep, remedial electrical modifications, and structural layout fault resolution.

- Process control management loop tuning, level parameters optimization, and functional diagnostic validation.
- Instrumentation setup, configuration calibration, and total field hardware replacement—including field instruments communicating across Profibus DP and Profibus PA network structures.
- Advanced motion control setup, programmatic validation, and system mapping across PLC, HMI, and SCADA infrastructure.
- Certified laboratory instrumentation loop testing and physical alignment verification (including high-accuracy inline electromagnetic flow meters).
- Complete technical replacement of malfunctioning inline magnetic flow meters (typically 90mm nominal bore diameters) integrated directly with active PLC and SCADA telemetry units.
- Design, structural build, physical fitting, and site commissioning of small-to-medium customized electrical control panel enclosures and motor control gear frameworks.
- Formal cable calculations, capacity layout design, thermal limits planning, and complete electrical safety drawing updates.
- Emergency escape lighting layout testing, battery load checks, and emergency lighting infrastructure replacements.
- Comprehensive Portable Appliance Testing (PAT) certified verification of electrical items in strict compliance with safety guidelines.
- Independent certified periodic inspection, safety testing, and structural sign-off validation of major electrical repairs.
- Production and validation of detailed as-built schematics, panel wiring diagrams, and structural modifications to existing technical site master drawings.

Mechanical System Works:

- Installation, routing, and alignment of MDPE and HDPE heavy-wall chemical transport pipework networks.
- Certified electrofusion and butt welding structural fabrication for pressurized leachate pumping mains and landfill gas extraction networks.
- Direct physical replacement of heavy-duty mechanical isolation sluice valves and non-return check valves (typically ranging from 50mm to 150mm nominal bore).
- Mechanical installation, physical seating, and vibration alignment of progressive cavity displacement pumps, submersible units, and surface-mounted leachate pump systems.
- General machine mechanical plant repair, shaft alignment, bearing servicing, and mechanical seal replacement works.
- Structural welding fabrication using mild steel and high-grade stainless steel base materials.
- Custom structural steel fabrications, brackets, access platform modifications, and protective equipment shrouding.
- Pneumatic control infrastructure upkeep, compressed air lines, filter-regulator-lubricator (FRL) sets, and pneumatic valve actuator maintenance.
- Hydraulic system diagnostics, high-pressure hose replacements, fluid conditioning, and hydraulic actuator servicing.

- Industrial PVC and ABS solvent-welded pipework fabrication, chemical line setup, and specialized chemical dosing loop adjustments.

3. Site Layouts and Operational Mapping

Appendix 1 lists detailed geographical site layouts and indicative maps identifying major asset clusters for each landfill. Tenderers must note that layout maps act solely as visual guidelines. Infrastructure changes occur regularly. Pumping sumps feature localized control panels, ultrasonic level indicators or radar transmitters, and operate under automated duty/standby switching logic. Tenderers are strongly encouraged to coordinate formal technical site visits with the Landfill Sites Operative prior to submitting final bids.

4. Site Access Controls

The Council will issue master access keys to the appointed contractor. Alternatively, the Landfill Sites Operative will facilitate secure entry. The contractor must maintain strict key security tracking logs. The contractor must ensure all entry gates remain locked during and immediately following any site work.

5. Response Commitments and Call-Out Frameworks

To protect environmental quality and satisfy EPA license conditions, the contractor must provide an absolute 24/7/365 single point of contact for emergency escalations.

Emergency Attendance Protocol:

- Emergency call-outs during core business hours (08:00 to 17:00, Monday through Friday) require onsite arrival within five (5) hours if reported before 12:00 noon. If reported between 12:00 noon and 17:00, the contractor must arrive onsite before 10:00 AM on the following working day.
- Out-of-hours emergency call-outs (weekends, public holidays, or night shifts between 17:01 and 07:59) require an absolute onsite arrival within twelve (12) hours from the initial Council notification log time.
- All financial rates submitted within Appendix 3 Schedule A for emergency response must represent fully inclusive costs, covering all localized travel expenses and rapid-mobilization premiums.

Routine Attendance Framework:

Follow-up works, secondary site visits, or planned operations (such as PAT testing and flow meter calibration schedules) follow routine attendance rules. The contractor must execute routine requests within five (5) working days from the original instruction date unless a longer timeline is explicitly approved in writing by the Council.

6. Validation of Satisfactory Service and Payments

The Landfill Sites Manager must review and sign off on all completed operations before any payment invoices are processed. Every electrical modification or panel update requires a formal Completion Certificate. This certificate must be issued by an appropriately registered electrical contractor in strict alignment with the Electricity Regulation Act 1999.

7. Experience, Qualifications, and Technical Personnel Requirements

Tender submissions must not exceed three (3) A4 pages. Bidders must include a clear capability narrative demonstrating:

- Sufficient corporate capacity and historical experience over the past five years.
- Adequate backup staffing to handle simultaneous call-outs.
- Absolute logistical capacity to hit the mandatory 5-hour and 12-hour arrival windows.
- Appropriate technical qualification proofs, safety cards, and trade credentials for all proposed technicians.
- Evidence of at least two (2) public or private contracts of a similar scale and technical complexity successfully executed within the past five (5) years.

8. Heavy Plant Procurement and Specialized Materials

Donegal County Council will source and supply all major equipment items, replacement pumps, and complex flow meters where possible. If the contractor provides emergency components or consumables, the Council will reimburse those items at the net trade invoice cost plus the contractor's specific percentage markup bid in Appendix 3 Schedule B.

9. Tender Evaluation and Framework Award Rules

This contract uses a formal public procurement procedure via eTenders. Bids follow a strict two-stage process. Stage 1 applies a Pass/Fail check against the core suitability criteria. Bids that pass move to Stage 2, where they are ranked strictly on lowest total cost. The evaluation calculates total cost using the formula:

Total Cost = (Schedule A Notional Total) + (Schedule B Notional Total).

10. Pricing Schedules

Bidders must fill out every single pricing block within Appendix 3 (Schedules A and B) without any modifications. Blank entries or missing rates will result in an immediate automatic disqualification of the tender submission.

11. Contract Term and Lifespan Extension Rules

The contract establishes an initial fixed term of one (1) year. The Council retains the unilateral right to grant a formal extension for one (1) additional year. The total contract value calculation for public framework threshold monitoring reflects the full combined 2-year operational lifespan.

12. Health, Safety, and Welfare Frameworks

The contractor must review all preliminary site risk details in Appendix 4. The contractor must develop comprehensive site-specific Safe Systems of Work Plans (SSWPs). These plans must be aligned with S.I. No. 291/2013 - Safety, Health and Welfare at Work (Construction) Regulations 2013 and receive formal Council approval before any work begins. All onsite personnel must hold active SOLAS Safe Pass validation cards and verified QQI training certifications.

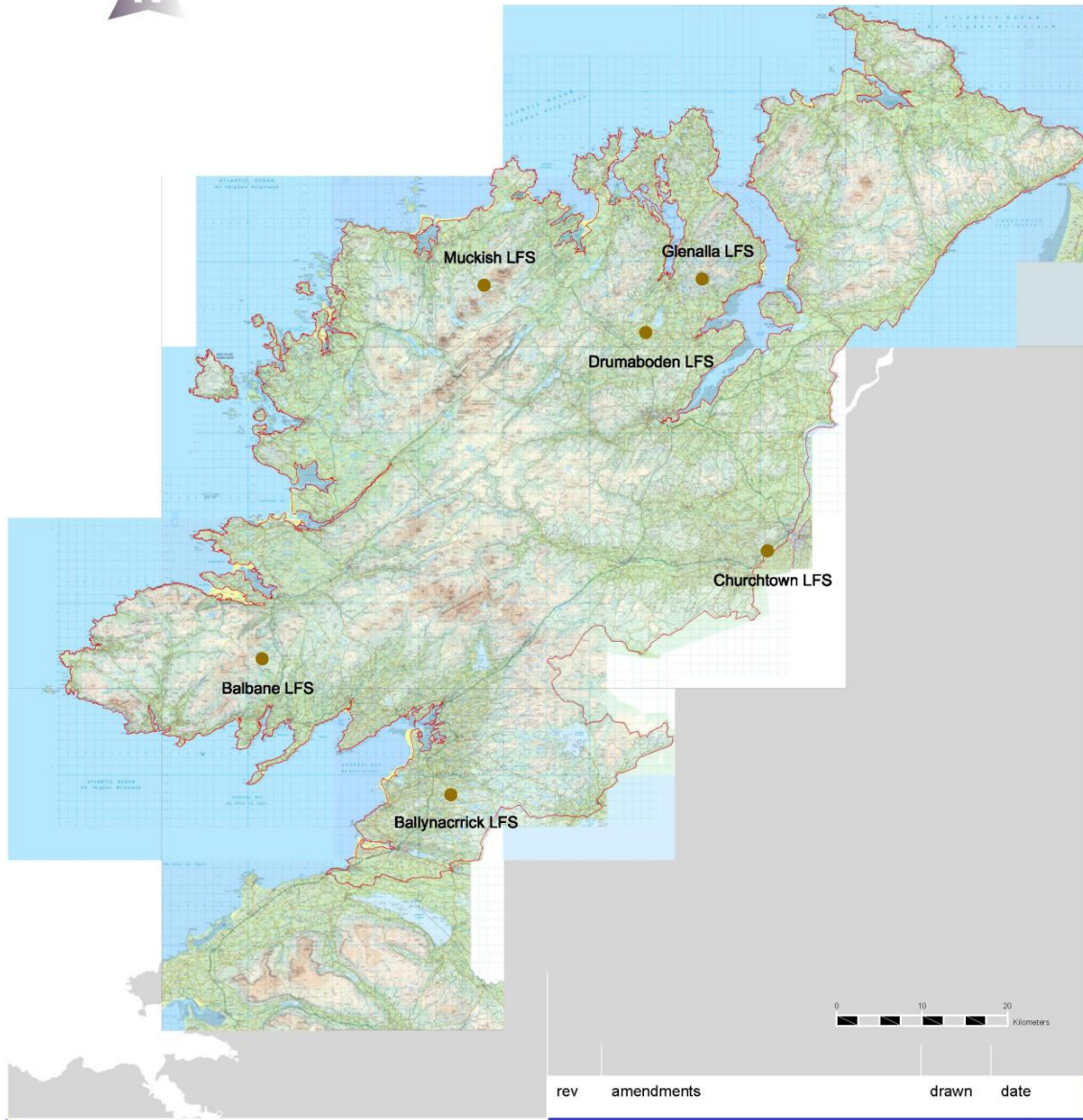
13. Corporate Tax Compliance Verification

The successful contractor must maintain fully compliant tax status in the Republic of Ireland. The contractor must provide a valid Revenue Tax Clearance Access Number (TCAN) to allow continuous digital verification throughout the life of the contract.

Appendix 1: Site Location and Layout Plans

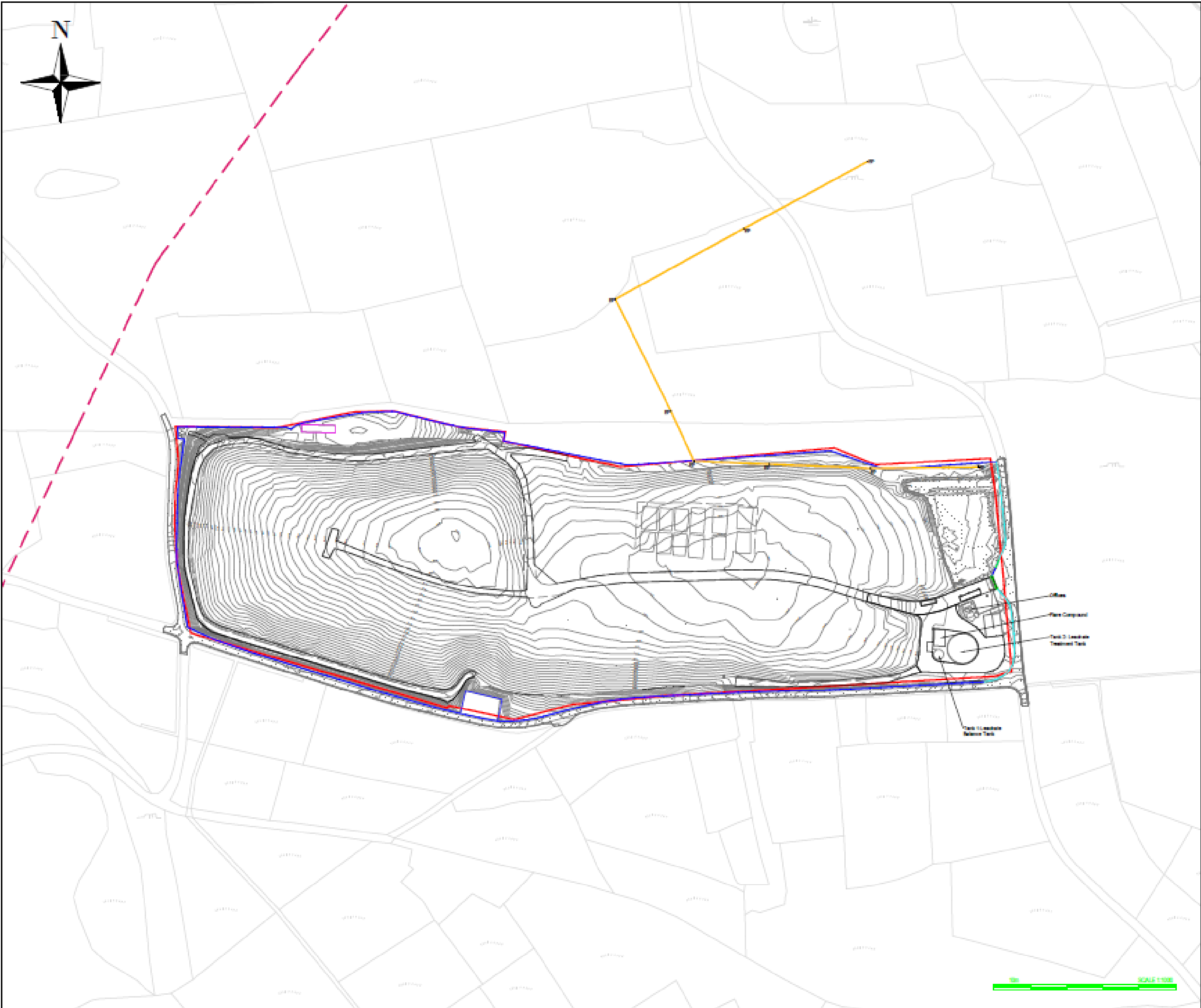
Please Note: - The drawings appended to this document are solely provided for the purpose of outlining the indicative range of MEICA equipment at each site which may require attention under these services.

Tenderers should note that not all MEICA related plant and equipment are shown, and where they are shown the exact location and details may not be exactly as described. Typically, all noted pumping stations/sumps have local control panels, with level control by means of ultrasonic probes, and typically operate under Duty/Standby pumping arrangements. Tenderers are advised to undertake site visits as outlined elsewhere in this document to appreciate the range of equipment to be maintained, serviced or replaced under this scope of works.

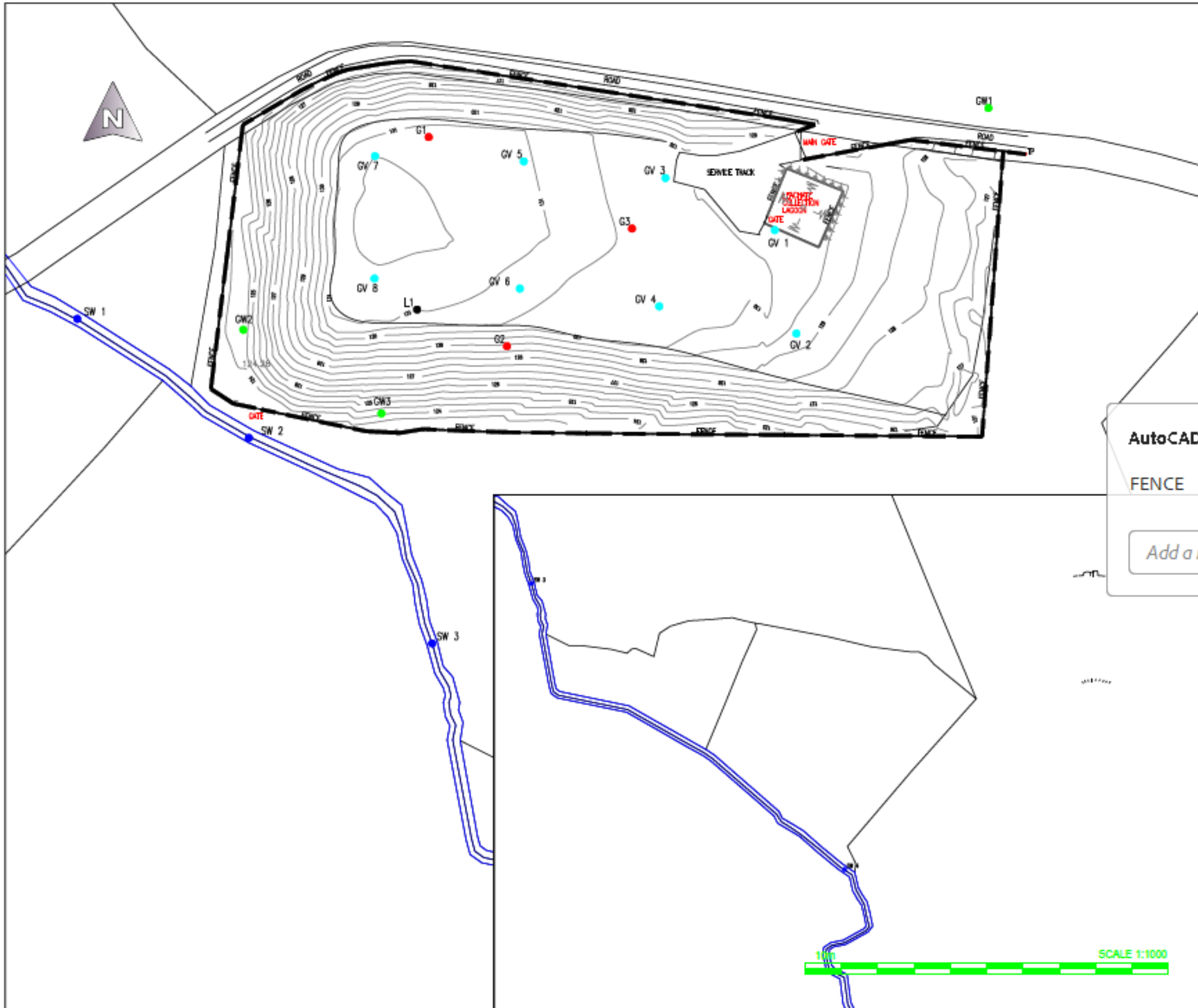




NOTES			
1.	Verifying Dimensions. The contractor shall verify dimensions against each other drawings or site conditions as pertain to this part of the work.		
2.	Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.		
3.	Issue of Drawings. Hard copies, dxf and pdf will form a controlled issue of the drawing. All other formats (jpg, dwt etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of in-dimensional measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.		
4.	Datum.		
5.	Key. LANDFILL SITE BOUNDARY PALADIN FENCES (2.4m HIGH) DOUBLE LEAF PALADIN FENCES (2.4m HIGH)		
rev	amendments		check date
Elmwood House 74 Boucher Road Belfast BT12 8RZ T +44 (0) 28 90 867914 F +44 (0) 28 90 868296 W www.rpsgroup.com/ireland E ireland@rpsgroup.com			
Client			
Donegal County Council			
Project			
Donegal Reporting			
Title			
Balbane Landfill Site Site Layout			
Project Number		Sheet Size	Drawing Scale
IBR1435		A3	1:1000
Drawing Number			
IBR1435/001			
Drawn By		Status	Revision
JC		Prelim	-
Checked By		Approved By	Date
AMcG		DD	12-06-23



NOTES			
1.	Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.		
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4.	Datum.		
5.	Key		
Landfill Site Boundary			
Double Red Palisade Gate (1.8m High)			
Palisade Fence (1.8m High)			
Galvanneal High Tensile Wire Mesh Fence (1.8m High with 0.3m bent arm with 3 strand barbed wire)			
rev	amendments		check date
RPS Elmwood House T4 Boucher Road Delbart BT12 6RZ T F W E +44 (0) 28 90 807914 +44 (0) 28 90 800280 www.rpsgroup.com/ireland ireland@rpsgroup.com			
Client			
Donegal County Council			
Project			
Ballynacarrick Landfill Site Site Layout			
Title			
Site Layout and Boundary			
Project Number		Sheet Size	Drawing Scale
IBR1279		A3	1:2500
Drawing Number			
IBR1279/002			
Drawn By		Status	Revision
MC		Tender	-
Checked By		Approved By	Date
JD		JD	25/11/2022



NOTES

1.

Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.

2.

Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.

3.

Issue of Drawings.
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4.

Datum.

5.

Key.

GV-Gas Vents

L1- Leachate Monitoring Point

G1 -Gas Monitoring Point

SW1 - Surface Water Monitoring Point

GW1 - Ground Water Monitoring Point

SHX Text

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reply

A	SW1A A33002	MC	03/10/23
rev	amendment	check	date

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Client

Donegal County Council

Project

Donegal Reporting

Title

Glenalla Landfill Site
Site Layout

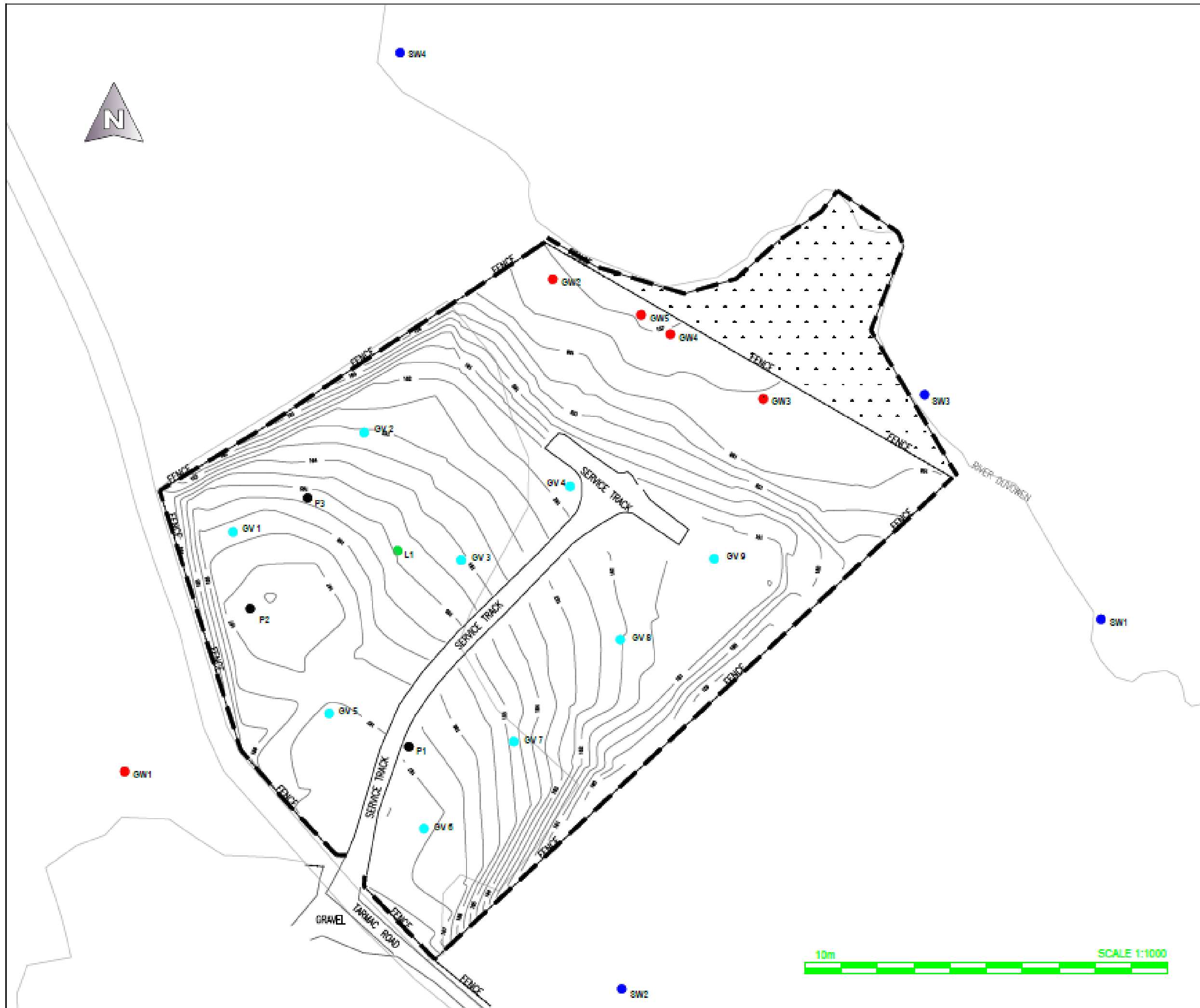
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Drawing Number

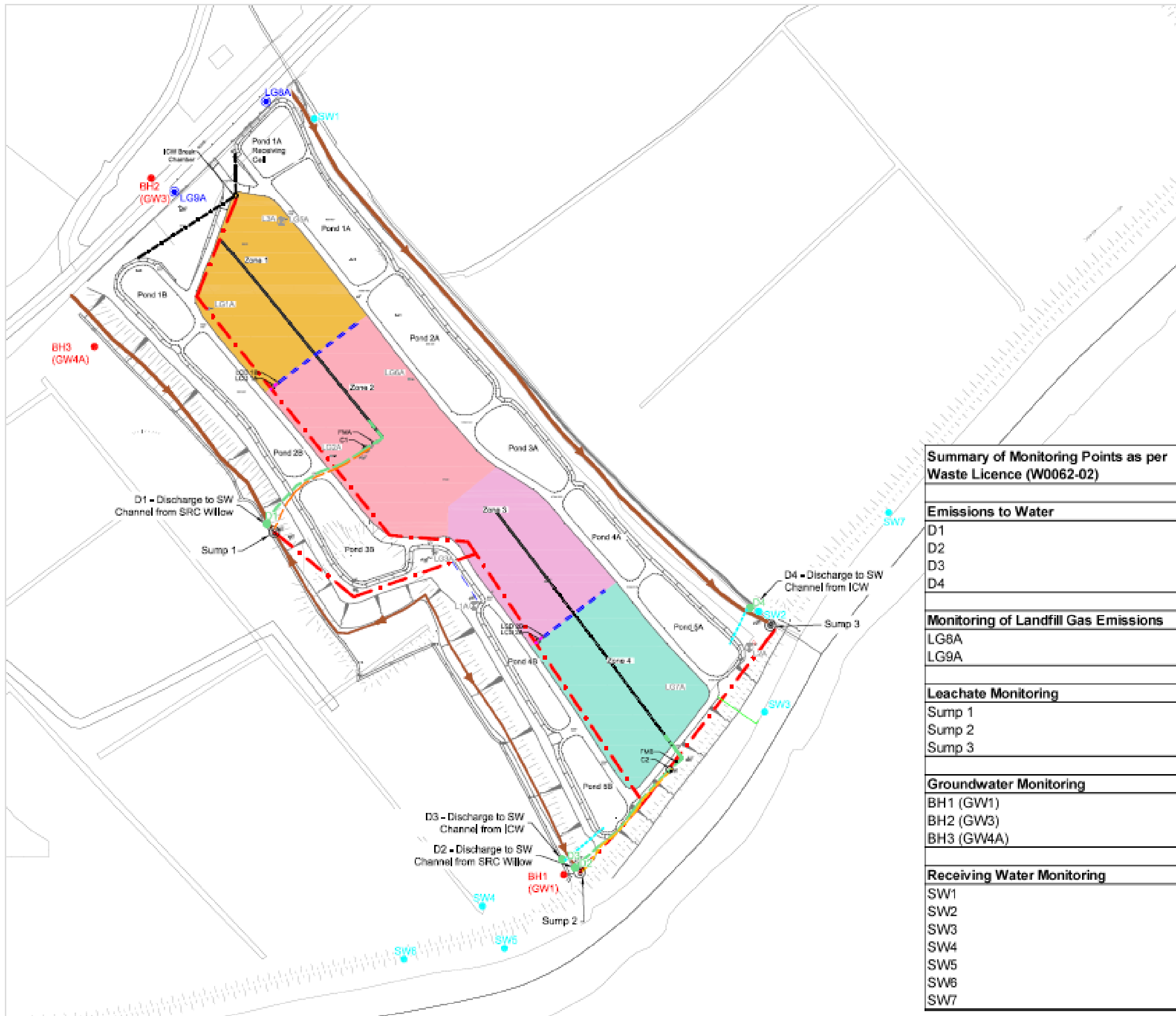
IBR1435/005

Drawn By	Status	Revision
JC	Prelim	A

Checked By	Approved By	Date
AMcG	DD	12-06-23



NOTES			
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4.	Datum.		
5.	Key.		
 Proposed Well Locations  GV - Gas Vents  GW - Groundwater  L - Leachate  SW - Surfacewater  P - Gas			
rev	amendments	check	date
 Elmwood House 74 Boucher Road Belfast BT12 6RZ T +44 (0) 20 90 887914 F +44 (0) 20 90 880300 W www.rpdgroup.com/ireland E ireland@rpdgroupp.com			
Client			
Donegal County Council			
Project			
Donegal Reporting			
Title			
Muckish Landfill Site Site Layout			
Project Number		Sheet Size	Drawing Scale
IBR1435		A3	1:1000
Drawing Number			
IBR1435/006			
Drawn By		Status	Revision
JC		Prelim	-
Checked By		Approved By	Date
AMoG		DD	12-06-23



Summary of Monitoring Points as per Waste Licence (W0062-02)

Emissions to Water

D1
D2
D3
D4

Monitoring of Landfill Gas Emissions

LG8A
LG9A

Leachate Monitoring

Sump 1
Sump 2
Sump 3

Groundwater Monitoring

BH1 (GW1)
BH2 (GW3)
BH3 (GW4A)

Receiving Water Monitoring

SW1
SW2
SW3
SW4
SW5
SW6
SW7

NOTES

- Verifying Dimensions.**
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services.**
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- Datum.**

- 5. Key:**
- GW4A ● Ground Water Monitoring Boreholes
 - LG9A ● Gas Monitoring Boreholes
 - SW11 ● Surface Water Monitoring Points
 - D1 ● Discharge Points from Willow/ICW
 - ⑧ Leachate Sumps (Leachate Monitoring Points)
 - 50mm Ø HDPE Header (Supply) Pipes
 - 80mm Ø HDPE Header (Supply) Pipes (between 50mm HDPE main and LDC10/20)
 - 150mm Ø nb uPVC pipe (between ICW Break chamber and connected to inlets to ICW)
 - 90mm Ø HDPE PE100 Pumping Main
 - 50mm Ø HDPE Pumping Main from leachate tower to 90mm HDPE pumping main with 100mm bed and surround
 - 150mm Ø HDPE Outfall Pipe (To Drainage Ditch) with 100mm bedding and surround
 - Existing 60mm Ø HDPE Outfall Pipe (To Collection Sump)
 - Existing Lined French Drain (Runoff Drainage)
 - Existing Leachate Toe Drain - Collecting Leachate from beneath landfill cap and discharging to Collection Sump
 - Indicative location of 150mm Ø PVC Outfall Pipe from Ponds

rev	amendments	drawn	date
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Client

Project
Churchtown Waste Licence Review

Title
Churchtown Landfill Site Monitoring Locations

Drawing Status	Sheet Size	Drawing Scale
Preliminary	A3	1:2000

Drawing Number	Rev
IBR1455/104	-

Project Leader	Drawn By	Date	Initial Review
DD	JC	25-08-23	AMcG

Appendix 2: Automated Pollution Control Infrastructure Inventory

Landfill Facility	Active Onsite Automated Systems	Required Technical Support Services
Ballynacarrick LS	SCADA platform supervising localized leachate wells, extraction pumps, and cells sending leachate to holding tanks. Continuous automated landfill gas flare system. Biological aeration leachate treatment plant.	Provide all MEICA services from Section 2. Deliver technical electrical/mechanical backup to the Gas Flare Operator and Landfill Manager.
Balbane LS	Fully commissioned, active SCADA network controlling gravity collection sumps that transfer raw leachate into an Integrated Constructed Wetland (ICW).	Provide all MEICA services from Section 2.
Churchtown LS	SCADA automation infrastructure monitoring gravity collection wells that pump raw leachate directly into two distinct biological treatment systems.	Provide all MEICA services from Section 2.
Drumaboden LS	Automated gravity collection chamber with integrated level monitoring and automated pumps feeding a specialized PuraFlo filter media setup.	Provide all MEICA services from Section 2.
Glenalla LS	Gravity collection well equipped with integrated automated pumps transferring fluid to a level-monitored lagoon enclosure.	Provide all MEICA services from Section 2.
Muckish LS	Passive closed cell footprint with zero localized SCADA or telemetry	Provide ad-hoc mechanical or general electrical infrastructure care as requested.

automation infrastructure
active onsite.

Appendix 3: Financial Pricing Schedules

Schedule A — MEICA Support Personnel Resource Rates

Callout Class	Technical Personnel Profile	Hourly Rate (€ Ex. VAT)	Notional Hours
Emergency Callout	Senior Control Electrical Specialist		15
Emergency Callout	Assistant Control Electrical Specialist		15
Emergency Callout	Senior Mechanical Specialist		8
Emergency Callout	Assistant Mechanical Specialist		8
Emergency Callout	General Support Operative		20
Routine Callout	Senior Control Electrical Specialist		20
Routine Callout	Assistant Control Electrical Specialist		20
Routine Callout	Senior Mechanical Specialist		10
Routine Callout	Assistant Mechanical Specialist		10
Routine Callout	General Support Operative		30
Office Support	All Technical Support Grades (Off-Site)		10

Schedule B — Fixed Rates for Identifiable Technical Service Items

Identifiable Technical Work Item Description	Unit Tendered Rate (€ Ex. VAT)	Notional Scope Quantities
Calibration of Electromagnetic Flow Meters (typically 90mm nominal bore)		5
Replacement of electromagnetic flow meters (typically 90mm nominal bore) including full signal mapping and SCADA integration		5
Portable Appliance Testing (PAT) certified verification of electrical items at Ballynacarrick Landfill Site		45
Portable Appliance Testing (PAT) certified verification of electrical items at Churchtown Landfill Site		25
Replacement of mechanical isolation sluice and non-return check valves (typically 90mm to 150mm nominal bore)		3
Consumables, specialized hiring plant, and parts (Provided by Contractor under invoice verification rules)		€1,000.00 Base Value

Appendix 4: Preliminary Health & Safety

Particular Risks Schedule

Regulated under S.I. No. 291/2013 - Safety, Health and Welfare at Work (Construction) Regulations 2013.

Statutory Risk Category	Applicable?	Site-Specific Context & Mandatory Controls
1. Risks of burial under earthfalls, engulfment in swampland, or falling from heights aggravated by site environments.	YES	Risk of falls exists due to steep perimeter side slopes and highly uneven, unpaved surfaces across all locations.
2. Hazards originating from toxic chemical or biological exposures requiring statutory medical monitoring loops.	YES	Direct contact hazard with toxic chemical leachate, landfill gas accumulation pockets, or corrosive dosing substances.
3. Work involving dangerous ionizing radiation fields under Article 20 of Directive 80/836/Euratom.	NO	No radioactive arrays or industrial ionizing monitoring systems are active on these landfill locations.
4. Heavy work operations executed near high-voltage overhead power distribution lines or ESB networks.	YES	Overhead medium-voltage ESB power cables traverse multiple sites. Contractors must strictly follow ESB Codes of Practice.
5. Technical activities exposing personnel to open drowning risks or working directly adjacent to water bodies.	YES	Multiple facilities feature perimeter deep drainage channels, leachate storage lagoons, or border active local river channels.
10. Structural risks tied to the existing physical work environment, buried assets, or access lane constraints.	YES	Bidders must conduct pre-tender inspections to assess hidden underground pipelines, buried control wires, and weight limits.
12. On-site vehicular movements, machinery conflicts, heavy plant transport, and public traffic interface risks.	YES	Operational traffic hazards from active site monitoring vehicles. Contractors must apply localized traffic safety layouts.