

Notice of Variation

Integrated Pollution Prevention and Control (IPPC) Permit

Environment Protection Act (CAP. 549)

Variation number

IP 0003/19/V3

Permit number

IP 0011/24

Approved Documents:

IP 0003/19/V3/DOC1

IP 0003/19/V3/DOC2

The Environment and Resources Authority (hereinafter the Authority; the Competent Authority or ERA) in exercise of its powers under the Environment Protection Act (CAP. 549) hereby authorises:

Wasteserv Malta Limited (hereinafter “the Permit Holder”),
Company registration number: **C30560**

Of / Whose Registered Office (or principal place of business) is at

**Ecohive Complex,
Tul il-Kosta,
Naxxar NXR 9030**

To carry out waste management and end-of-waste activities at the:

**Malta North Waste Treatment Plant,
I/o Għallis,
Naxxar.**

to the extent authorised by and subject to the conditions of this Permit.

This variation is valid until the expiry of the permit IP 00011/24 which is 10 years from the ‘permit granted’ date below. An application for renewal is to be submitted at least nine (9) months prior to expiry of IP 0011/24

Signed	Date
<p>Aimee Brincat Director Regulatory Affairs</p>	<p><u>Permit granted: 17 / 10 / 2025</u> <u>Variation notice granted: 23/01/2026</u></p>

Authorised to sign on behalf of the Competent Authority

Introductory Note

The enclosed notice of variation shall be read in conjunction to the permit with reference to IP 00011/24 and shall take effect as of the date indicated above.

The Authority is hereby varying the Introductory Note, the Permitted Activities, Conditions, and including Schedule 8.

Approved Document IP 00011/24/62A is being superseded by IP 003/19/V3/DOC1. All references to such document are understood to also be updated accordingly.

The inclusion of an Approved Document EP 0003/19/V3/DOC2.

Section 1 General

1.1 Permitted activities

Table 1.1.1 listing the permitted activities shall be replaced by the following:

Table 1.1.1	
Description of specified operation	Limits of specified operation
Collection, sorting, preliminary treatment, baling and storage of permitted non-hazardous wastes	From receipt of raw waste to sorting, baling and storage of material for a temporary period.
Operation of a Mechanical Treatment Plant (MTP)	
Dry mechanical treatment of municipal and bulky waste– Collection, sorting, baling and storage of waste	From receipt of raw municipal and bulky non-hazardous waste to inspection, separation, baling and temporary storage of material.
Operation of AD Plant	
Wet mechanical treatment – production of biological waste suspension (slurry) through mixing, screening and sedimentation	From receipt of raw waste fraction to treatment and production of biological waste suspension (slurry).
Biological treatment – hydrolysis and digestion of the biological waste suspension (slurry)	From receipt of the biological waste suspension (slurry) from MTP, to treatment

<p>Aerobisation – aeration of the liquid digestion residue, dewatering and compost storage</p> <p>Production of an organic soil improver</p> <p>Associated activity of utilities including boiler and pasteurisation tank to achieve End-of-Waste status of the digestate, to produce an organic soil improver.</p>	<p>(digestion) and production of the liquid digestion residue.</p> <p>From receipt of the liquid digestion residue to aeration, dewatering and storage of the dewatered substrate.</p> <p>From receipt of waste to processing and achievement of its end of waste criteria as per permit conditions for dispatch / selling as utility.</p> <p>Unless such confirmation is obtained, the soil improver shall be sold to third parties as waste or sent to authorised waste management facilities permitted to accept such waste either locally or abroad.</p>
<p>Storage and processing of Plastic Bumpers</p> <p>Acceptance, storage and baling of plastic bumpers</p>	<p>From receipt and storage of plastic bumpers to processing and storage and baled bumpers as per storage locations in approved document IP0011/24/60A</p>
<p>Storage and processing of Wood to extract metal components.</p> <p>Receipt, storage and processing of wood in designated areas.</p> <p>Use of shredder to process waste wood.</p>	<p>From receipt and storage of waste wood to processing and storage as per storage locations in approved document IP0011/24/60A</p>
<p>Operation of a Material Recovery Facility (MRF)</p> <p>Acceptance, sorting, storage and baling of recyclable waste</p>	<p>From receipt of recyclable waste originating mainly from domestic sources to transit or export for recovery and/or recycling.</p>
<p>Refuelling</p>	

Use of towable container for re-fuelling purposes.	From receipt of fuel to production of utility.
Associated activity of general maintenance and repairs	
Maintenance and repair/s on equipment and/or machines within the installation (MTP/AD).	From maintenance/repair activity to appropriate recovery/disposal of any waste generated on site.
Truck and wheel washing area for cleaning of vehicles	From cleaning of vehicles which exit the site to appropriate disposal of wash waters.
Associated activity of utilities	
Associated pipework linking the MTP and AD plant	Transport of process water from the MTP to the AD plant for processing, and associated bunding.
Associated activity of mitigation of emissions, including operation of the biofilter, fast-roller shutters and air curtains	Mitigation of emissions of odorous air from installation.
Associated activity of biogas production, handling and utilisation	From generation and storage of biogas to production of power and heat (CHP).
Associated activity of waste water treatment plant	From receipt of process water to production of clean water.
Associated activity of utilities including operation of boiler and 2 generators	From receipt of fuel to production of utility.

New section being introduced.

Section 2.4 End-of-Waste

- 2.4.1 This procedure/approval would no longer be valid once end-of-waste criteria for digestate would be established by the EU.
- 2.4.2 The permit holder shall ensure that only source segregated bio-waste classified as 20 01 08, 20 02 01, and 20 03 02 shall be used as input. The source segregated bio-waste used as input shall be kept permanently separate from the contact with any other waste. Biological waste,

which has been mixed with other waste streams, shall not be used as input into the process for the generation of digestate. In addition, input materials to the anaerobic digestion system shall not include contaminated wastes, products or materials.

- 2.4.3 The permit holder shall ensure that any source segregated bio-waste suspected to be contaminated by hazardous material or waste is not used as input.
- 2.4.4 For the purpose of this permit, source segregated bio-waste classified as EWC code 20 01 08, 20 02 01, and 20 03 02 shall cease to be waste if it complies with following conditions:
- (i) The source-segregated bio-waste has undergone thermophilic anaerobic digestion at 55°C and is followed by a pasteurization treatment process which reaches a temperature of at least 70°C for one hour, all waste rejects from the treatment process have been removed, and the end product does not require any further treatment prior to its use;
 - (ii) The end product meets the requirements for Product Function Category 3A (Organic Soil Improver) and Component Material Categories 5 (Digestate other than fresh crop digestate) as specified in Annexes I, II and III of Regulation (EU) 1009/2019 laying down rules on the making available on the market of EU fertilising products, and any other technical requirements emanating from the same EU Regulation;
 - (iii) The use of the digestate shall not lead to any overall adverse environmental or human health impacts.
- 2.4.5 Technical documentation proving that the soil improver has reached the requirements in line with the EU Regulation 1009/2019 for Product Function Category 3A (Organic Soil Improver) and Component Material Categories 5 (Digestate other than fresh crop digestate) to be submitted within one (1) month from the finalisation of the End-Of-Waste process for the first batch, and which shall be approved by the Authority prior to the sale or transfer of the soil improver as a product to third parties. The approved technical documentation shall also be included as part of the facility's annual report to be submitted to the Authority in accordance with permit.
- 2.4.6 Every quarter, a sample shall be taken and tested in line with the monitoring outlined in Approved Document IP 0003/19/V3/DOC2 to demonstrate that the soil improver produced meets the requirements in Annexes I, III, and III of Regulation (EU) 1009/2019 laying down rules on the making available on the market of EU fertilising products, specifically the requirements for Product Function Category 3A (Organic Soil Improver) and Component Material Categories 5 (Digestate other than fresh crop digestate). Should the annual input increase, the frequency of testing is to be adjusted according to Annex IV - Conformity assessment procedures of Regulation (EU) 1009/2019. The results of the first conforming sample shall be submitted to the Authority within one month of its date of issue. The results from subsequent samples issued in a particular year are to be submitted to the authority together with the facility's annual report.
- 2.4.7 The permit holder shall maintain a record for each consignment by issuing a "Statement of Conformity with the End-of-Waste Criteria" (Schedule 8) with each consignment. A copy of the first statement of conformity issued in line with Schedule 8 shall be submitted to the Authority within one month of its date of issue.
- 2.4.8 The statements of conformity referred to in condition 2.4.7 shall be kept for a minimum of three years and made available on request to the Authority. A copy of all the statements of

conformity issued in a particular year are to be submitted to the authority together with the facility's annual report.

- 2.4.9 The applicant shall submit to the Authority information on inputs of waste and outputs in the format requested by the Authority in the Annual Environmental Reports.
- 2.4.10 Any non-conforming waste destined for pasteurization is to be immediately moved away in a segregated labelled manner to one of the following:
- a) the correct corresponding waste storage area (if available on site)
 - b) the designated quarantine area and stored pending transport
 - c) or directly to an appropriately authorised waste management facility.
- 2.4.11 Any treated waste that does not achieve End-of-Waste shall be disposed of until End of Waste status is achieved as confirmed by the Authority.
- 2.4.12 The Authority is to be notified at least three (3) working days prior to the commencement of the collection of samples for testing.
- 2.4.13 Drop-heights for both the digestate input and the soil improver output shall be kept to the minimum possible.
- 2.4.14 Containers with soil improver shall be carted off-site when full.

Sections 2.4 to 2.11 and the conditions therein will be renumbered to 2.5 to 2.12

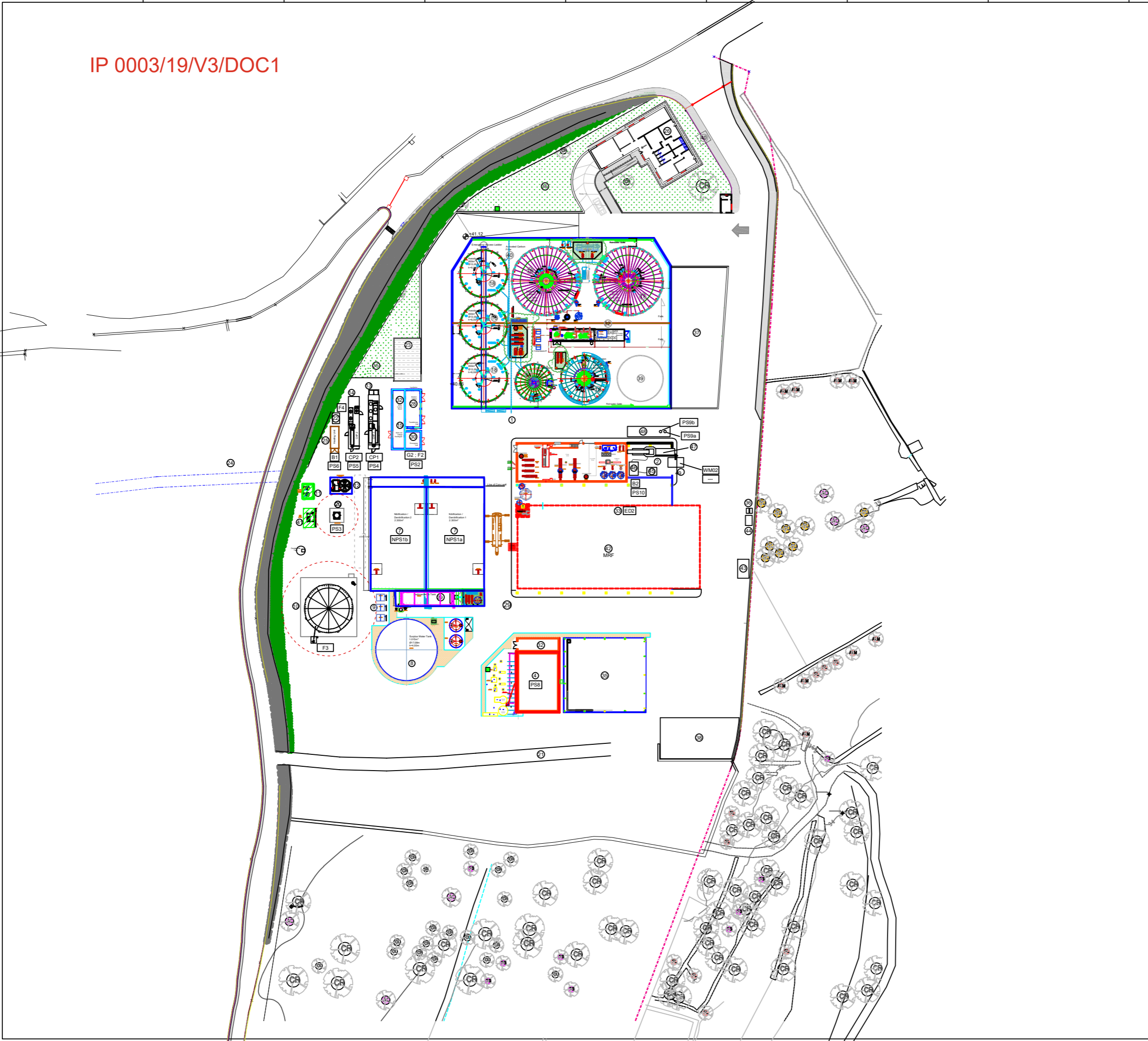
Schedule 8 – Statement of Conformity with the End-of-Waste Criteria laid down in Permit Conditions

1.	Producer of soil improver Name: Address: Contact person: Telephone: Fax: E-mail:
2.	The name or HS code of the soil improver (if applicable):
3.	Quantity of the consignment (in kg):
4.	The soil improver produced from biodegradable source segregated waste is compliant with all relevant product legislation.
5.	This consignment meets the criteria/conditions referred to in the permit.

6.	The material in this consignment is intended exclusively to be used as a soil improver in line with Product Function Category 3A (Organic Soil Improver) and Component Material Categories 5 (Digestate other than fresh crop digestate) of Regulation (EU) 1009/2019 laying down rules on the making available on the market of EU fertilising products
7.	Declaration of the producer of the soil improver : I certify that the above information is complete and correct and to my best knowledge: Name: _____ Date: _____ Signature: _____

END OF NOTICE

IP 0003/19/V3/DOC1



Legend

- ① Pipe Bridge
 - ② Digestate Enclosure
 - WM02 Digestate
 - or
 - Pasteurised Digestate
 - ③ Acid Scrubber
 - ④ AD Biofilter [PS8]
 - ⑤ Dewatering Area
 - ⑥ Maturation Area
 - ⑦ Biological Nitrogen Removal 1 [NPS1a ; NPS1b]
 - ⑧ Water Storage Tank
 - ⑨ Blower Station
 - ⑩ Gas Storage
 - ⑪ Gas Booster Station
 - ⑫ Biological Desulphurisation
 - ⑬ CHP 1 [CP1 ; PS4]
 - ⑭ CHP 2 [CP2 ; PS5]
 - ⑮ Main Low Voltage Switchboard
 - ⑯ Digester 1
 - ⑰ Digester 2
 - ⑱ Aeration Tank
 - ⑲ Suspension Buffer
 - ⑳ Flare
 - ㉑ New Internal Road
 - ㉒ Diesel Storage (for AD Boiler) [F4]
 - ㉓ Storage For Chemicals
 - ㉔ Pipeline from MTP to AD Site
 - ㉕ AD Boiler [B1 ; PS6]
 - ㉖ Operations Office
 - ㉗ Main Gate
 - ㉘ Medium Voltage
 - ㉙ Waste Water Discharge Station
 - ㉚ Emergency Generator AD [G2 ; PS2]
 - ㉛ Transformation Power Station Hall
 - ㉜ Switchboards Hall
 - ㉝ Reservoir 8000 cu m [ED2]
 - ㉞ Process Water Buffer
 - ㉟ New Store
 - ㊱ Yellow Dispensers
 - ㊲ Parking
- ㉟ MRF Bales Storage Area 1
 - WM01a Paper & Cardboard Bales
 - WM02a Plastic Bales
 - WM03 Plastic Bumpers Bales
 - WM04a Metal Bales
 - WM05 Milk Carton Bales
 - WM06a RDF Bales
 - ㊳ New Internal Road
 - ㊴ Cesspit for Site Operation Offices
 - ㊵ Biogas Dryer
 - ㊶ MRF
 - ㊷ Quarantine
 - ㊸ Black Fuel Dispenser
 - ㊹ Diesel Storage Tank 3,000 Ltrs [F6]
 - ㊺ Boiler [B2 ; PS10]
 - ㊻ Pasteurisation Vessel
 - ㊼ MRF Air Treatment [PS9a ; PS9b]
 - ㊽ Pasteurised Digestate Container

Rev.	Description	Date	Changed	Approved
01	Included Pasteurisation Unit.	7th November 2025	NE	
02	Included details requested by EIR / New layout of drawing	05th September 2025	NE	
03	Block / Fuel.	Block / Fuel	Block / Fuel	
04	Marked new internal road (E), included MRF (G2) and bales storage area (S1)	27th May 2025	NE	
05	Revised drawing created for MRF (PS9) removal Application.	05th May 2025	NE	

Note:
Drawing is only to be used to illustrate high-level detail of where equipment / installations are located.

Drawn	9th September 2025								
Checked									
Approved									
Scale	--								
Drawing Title	Drawing n°:								
AD General Layout Plan	MN02V-31102025-05								
Revision:									
01	02	03	04	05					

MN Digestate Monitoring Plan

01. Monitoring Parameters

No.	Parameters	Limits	Unit	Method
1	pH	N/A	N/A	CSN ISO 10390, CSN EN 12176:1999, CSN EN 13037, CSN EN 15933, CSN 46 5735, ÖNORM L 1086-1, US EPA 9045D; US EPA 9040C OR ISO 10523
2	Electrical conductivity	N/A	mS/m	CSN EN 13038, CSN ISO 11265, OR ISO 7888 OR EN 27888
3	Dry matter	≥20	% by mass	methodology of Elementary Company, CSN ISO 10694, CSN EN 13137:2002, CSN EN 15936, CSN ISO 11465 OR EN 13040, EN 15935 OR UNE-CEN/TS 17776
4	Organic carbon (C org)	≥7.5	% by mass	
5	Organic nitrogen (N org)	N/A	% by mass	CSN EN 25663, CSN EN 13342, CSN ISO 7150-1, CSN ISO 11465 OR UNE 10304-1, UNE-EN ISO 19746, UNE-EN 14911
6	Ratio of organic carbon to total nitrogen (C org /N)	N/A	N/A	CSN EN 12879, CSN EN 15935, CSN 46 5735, CSN ISO 11261, CSN ISO 11465, CSN 720103 OR CEN/TS 17771 OR ISO 13878 & EN 13654-2
7	Oxygen uptake rate	25	mmol O ₂ /kg organic matter/h	S-AT4-COU (ÖNORM S 2027-4) Determination of respiration activity (AT4) using respirometer over 4 days OR EN 16087-1
	Residual biogas potential (28-day period)	0,25	l biogas/g Volatile solids	N/A
8	Macroscopic impurities above 2 mm in any of the following forms: Glass Metal Plastics	3	g/kg dry matter	CSN 46 5735, Regulation 273/2021 OR CEN/TS 16202
9	Sum of the macroscopic impurities (Glass, Metal, Plastics)	5	g/kg dry matter	
10	Cadmium (Cd)	2	mg/kg dry matter	US EPA Method 200.7 CSN EN ISO 11885 US EPA Method 6010, SM3120 OR CEN/TS 17770 OR EN 16170

No.	Parameters	Limits	Unit	Method
**11	Hexavalent chromium (Cr VI)	2	mg/kg dry matter	US EPA 200.7, ISO 11885, US EPA 6010, SM 3120, US EPA 3050, CSN ISO 11465, CSN EN 15192, EPA 3060A OR UNE-EN 16318:2015+A1:2016
12	Mercury (Hg)	1	mg/kg dry matter	US EPA Method 200.7 CSN EN ISO 11885, US EPA Method 6010, SM3120 OR CEN/TS 17770 OR EN 17852
13	Nickel (Ni)	50	mg/kg dry matter	US EPA Method 200.7 CSN EN ISO 11885, US EPA Method 6010, SM3120, EN 16170 OR CEN/TS 17770
14	Lead (Pb)	120	mg/kg dry matter	US EPA Method 200.7 CSN EN ISO 11885, US EPA Method 6010, SM3120, EN 16170 OR CEN/TS 17770
15	Inorganic arsenic (As)	40	mg/kg dry matter	UNE-CEN/TS 17775
16	Copper (Cu)	300	mg/kg dry matter	US EPA Method 200.7 CSN EN ISO 11885, US EPA Method 6010, SM3120, EN 16170 OR CEN/TS 17770
17	Zinc (Zn)	800	mg/kg dry matter	US EPA Method 200.7 CSN EN ISO 11885, US EPA Method 6010, SM3120, EN 16170 OR CEN/TS 17770
18	*PAH 16	6	mg/kg dry matter	US EPA 8270D, CSN EN 17503 OR CMA/3/W (GC/MS)
19	Nitrogen (N)	0.5	% by mass	CSN EN 25663, CSN EN 13342, CSN ISO 7150-1, CSN ISO 11465 OR UNE-EN 10304-1 OR ISO 13878 & EN 13654-2
20	Phosphorus pentoxide (P ₂ O ₅)	0.5	% by mass	US EPA Method 200.7 CSN EN ISO 11885 US EPA Method 6010 SM3120, EN 16170 OR UNE-EN 15956, OR
21	Potassium oxide (K ₂ O)	0.5	% by mass	CEN/TS 17729

* Sum of naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, indeno[1,2,3-cd]pyrene, dibenzo[a,h]anthracene and benzo[ghi]perylene (REGULATION (EU) 2019/1009)

** Methods listed are all process methods needed to determine the parameter.

NB: The sampling strategy should be followed as per EN 12579:2013 & EN 13040

Micro-organisms to be tested	Sampling plans			Limit M	Method
	n	c	m		
Salmonella spp	5	0	0	Absence in 25g or 25ml	AHEM No. 1/2008, CSN EN ISO 6579 OR AFNOR BRD 07/11-12/05
Escherichia coli	5	5	0	1000 in 1g or 1ml	AHEM No. 1/2008, CSN ISO 16649 OR CEN/TR 15214-2. OR AFNOR BRD 07/01-07/93

Where:

n = number of samples to be tested,

c = number of samples where the number of bacteria expressed in CFU is between m and M,

m = threshold value for the number of bacteria expressed in CFU that is considered satisfactory,

M = maximum value of the number of bacteria expressed in CFU.

NB: The sampling strategy should be followed as per EN 12579:2013 & EN 13040.

02. Internal Monitoring Frequency

The parameters indicated above shall be measured monthly.