



Oxygen

working for a cleaner environment



Oxygen Environmental Ltd.

Waste Licensing
Waste Recovery/Disposal Activities
(Other than Landfill Sites)

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Section J

Environmental Monitoring



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Section J1

Dust

J.1 DUST

Dust monitoring will be carried out at the facility at the locations and frequency specified in the waste licence. Oxigen Environmental Ltd. proposes to continue to use the three monitoring locations as detailed in the original waste licence (Register No. 152-1) and as shown on Drawing No. J.1, which will be monitored three times annually.

Sampling Methodology

The Bergerhoff Dust Deposition Gauge will continue to be used for dust deposition sampling. The Bergerhoff Dust Deposition Gauge consists of a plastic collecting vessel and a stand with a protecting cage. The vessel is placed in the metal basket which is positioned at a height of between 1.5 and 2 meters above ground level according to the German Standard Method VDI 2119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute).

Prior to sampling, the collecting vessels will be carefully cleaned with laboratory detergent and then deionised water and allowed to dry. Sampling will involve placing the labelled containers in the protecting cages. Following exposure for a specific number of days, the sampling bottles will be securely capped and returned to the laboratory for analysis.

Analysis

All samples returned to the laboratory will be stored at 2-8°C. Subsequent analysis of all samples will be carried out gravimetrically for dust and strictly follow the standard VDI 2119. The results will be expressed in mg/m²/day.



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Section J2

Ecological

J.2 ECOLOGY

Due to the extent of the concrete finish at the facility, it is considered that it is not necessary to carry out any further ecological surveys at the site.

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Section J3

Groundwater

J.3 GROUNDWATER

Oxigen Environmental Ltd. do not propose to conduct groundwater monitoring on the site as there are no direct or indirect emissions to groundwater from the facility.

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Section J4

Air

J.4 AIR

As there are no direct emissions to atmosphere (i.e. no boilers, landfill gas generation etc.), Oxygen Environmental Ltd. do not propose to conduct routine air quality monitoring at the site.

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Section J5

Sewer Discharge

J.5 SEWER DISCHARGE

As per schedule D.5 of the existing waste licence (Register No. 152-1), Oxigen Environmental Ltd. are required to monitor the existing sewer connection (TFW1) on a quarterly basis. It is proposed to continue monitoring this location (TFW1) for the same frequency and for the same parameters, namely flow, Biochemical Oxygen Demand, Chemical Oxygen Demand, Ammoniacal nitrogen, Suspended Solids, pH, Temperature, Detergents (as MBAS) and Fats, Oils and Grease.

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Section J6

Meteorological Data

J.6 METEOROLOGICAL DATA

Meteorological data is included within section 3.9 of the attached Environmental Impact Statement. Meteorological data will be acquired from Met Eireann and will be based on the recording station at Casement Aerodrome.

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Section J7

Noise

J.7 NOISE

As per schedule D.3 of the existing waste licence (Register No. 152-1), Oxygen Environmental Ltd. have monitored noise at five locations on an annual basis, four locations at the boundaries of the facility and at a location opposite the existing entrance. It is proposed that Oxygen Environmental Ltd. will monitor at three locations within the facility and at the nearest residential location, which is 150m to the east of the facility at the new noise sensitive monitoring location. Due to the location of the building it is not feasible to undertake monitoring at the four boundaries at the facility, and therefore a reduction from four to three locations is recommended. The same sampling methodology and frequency shall be adopted.

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Section J8

Odours

J.8 ODOURS

It is not proposed to carry out any odour monitoring at this time. In the event of complaints from the public relating to odour or a direct request by the Agency, odour monitoring will be undertaken.

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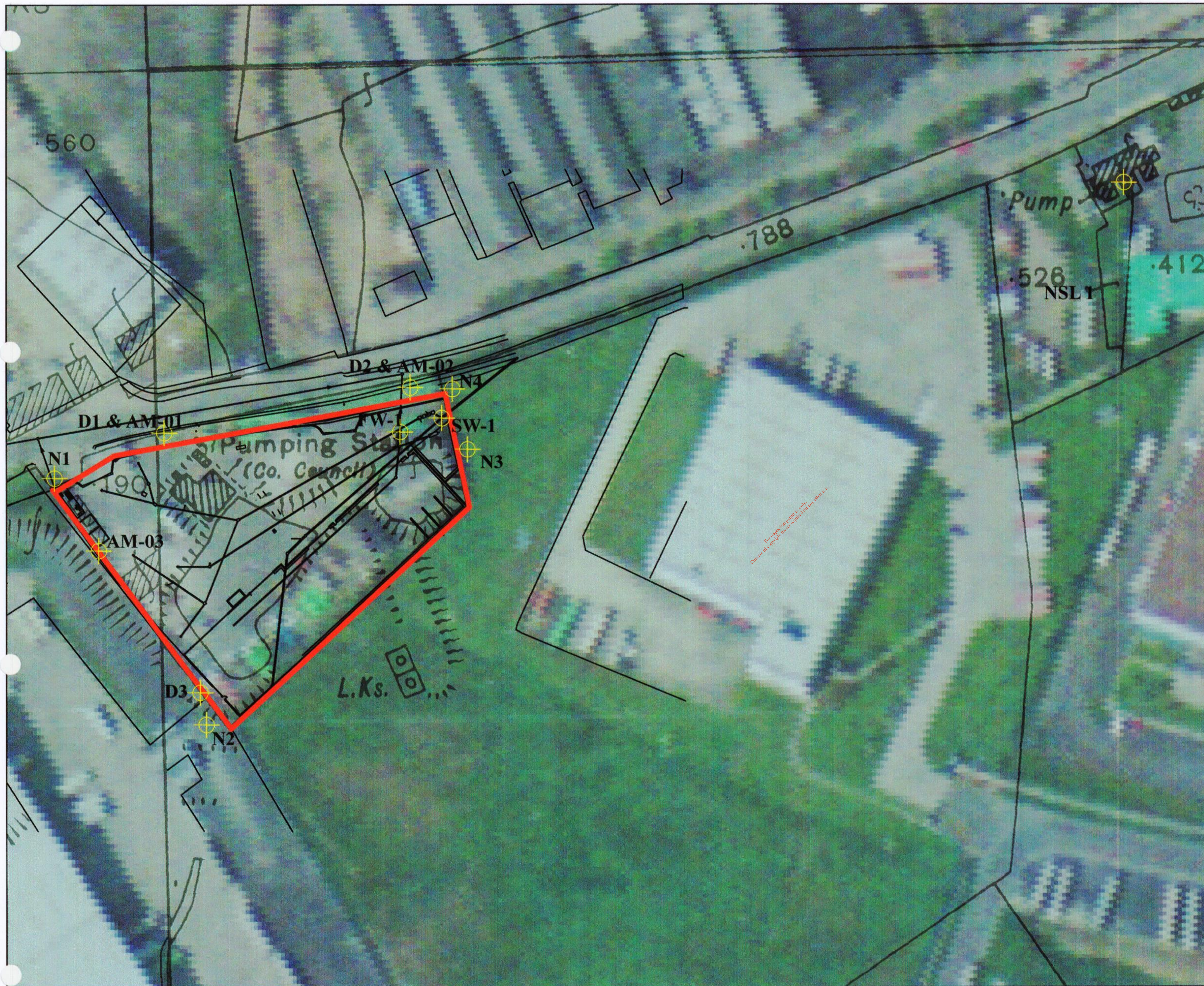
Section J9

Surface Water

J.9 SURFACE WATERS

As per schedule D.4 of the existing waste licence (Register No. 152-1), Oxygen Environmental Ltd. are required to monitor the discharges from the facility on a quarterly basis for pH, Biological Oxygen Demand, Suspended Solids, Mineral Oil, and Oil, Fats and Grease. It is proposed to continue monitoring at these locations (TSW1 and TSW2) for the same parameters and frequency.

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Grid Referenceces (Northings, Eastings):

Dust Monitoring Locations

D1	309454	231112
D2	309488	231118
D3	309421	231082

Foul Sewer Monitoring Location

TFW1	309478	231114
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Surface Water Monitoring Locations

TSW1	309466	231045
TSW2	309510	231114

Noise Monitoring Locations

N1	309427	231097
N2	309440	231057
N3	309489	231116
NSL1	309687	231174

Revision No.	Description	Date
<p>BORD NA MÓNA BORD NA MÓNA ENVIRONMENTAL LIMITED Main Street, Newbridge, Co. Kildare. Phone 045 431201 Fax: 045 434207 www.bnm.ie/environmental email: ed.info@bnm.ie</p>		
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<p>Client: Oxigen Environmental Ltd.</p>		
<p>Project: Waste Licence Review Application,</p>		
<p>Title: Environmental Monitoring Locations</p>		
Date: Sept 2004	Scale: 1:1,000 (A3)	Drawn by: NC
	Drawn by: GL	Approved by: DH
<p>Status: Planning For Construction Tender As Built For Approval X</p>		<p>Drawing No.: J.1</p>