



Mulleadys

"All our time goes to waste"

Annual Monitoring Report

Groundwater

**IE LICENCE W0169-01
Cloonaugh, Drumlish
Co. Longford, N39 E4F4**

Author: Ludmila Gabrisova (Environmental Manager)

Date: 30/01/2023

Signed: *Ludmila Gabrisova*

Approved By: Niall Mulleady (Managing Director)

Date: 30/01/2023

Signed: *Niall Mulleady*



Mulleadys

"All our time goes to waste"

Office of Environmental Enforcement
Environmental Protection Agency
Regional Inspectorate
Pool Road
Castlebar
Co. Mayo

Oct 4th, 2022

Our Ref: MULL – GW1 041022 – No. 2 – Bi Annually

Re: Ground Water Monitoring Report – Bi Annually – No. 2 – 2022

Introduction

The waste recycling and transfer station is located in the townland of Cloonaugh, Drumlish, Co. Longford. The facility is known and operates as Mulleady's Ltd.

The site is located 5 km from Longford Town (main population centre in Co. Longford) and 1km from Drumlish village on the R198. The land use in the area is predominantly agricultural with a mainly livestock pasture surrounding the facility.

Mulleady's Ltd. are licensed to accept solid non-hazardous wastes only. The waste types that were accepted at this facility include household, commercial, industrial and construction and demolition wastes.

The site consists of Recycling Shed No. 1, Recycling Shed No. 2, Recycling Shed No.3 a Fines Storage Shed and concrete storage bays.

Surface Water Collection System was completed in March 31st 2004. Shut-off valve in place since August 2004.

Mulleady's Ltd. site is not located over a regionally or locally classed aquifer. There is one monitoring well on the site (GW-1). Mulleady's Ltd. facility is presently served by Longford County Council public water supply.

WASTE MANAGEMENT DIVISION

CLOONAUGH, DRUMLISH, CO. LONGFORD, EIRE
DIRECTORS: A. MULLEADY, D. MULLEADY
REGISTERED NO. 69020 • VAT no. 4566441B

Telephone: (043) 3324128 / 3324145
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Website: www.mulleadys.com
Email: info@mulleadys.com

There are no large-scale groundwater abstraction points in the vicinity of the site although there are a number of domestic wells currently in use in the area.

Methodology

In accordance with Condition 7.1 of our Industrial Emissions Licence schedule D, please find enclosed results for the two round of groundwater sampling for 2022 that took place at groundwater monitoring point GW-1 (Monitoring Map Attached).

Grab samples were taken on the May 17th 2022 and the Sep 16th 2022 (Monitoring location map attached). These samples were stored in a fridge and sent to Alcontrol Laboratories the same day for the following parameters to be tested.

Table 1.

Ammoniacal Nitrogen as NH ₃	Diesel Range Hydrocarbons EPH Range >C10 – C40
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Table 2 outlines sample results for GW-1 as obtained by Alcontrol Laboratories. Table 2 also shows trends which gives an overview of each parameter tested in 2022 compared to results recorded in the previous years. However the Graph shows trend of results from 2017.

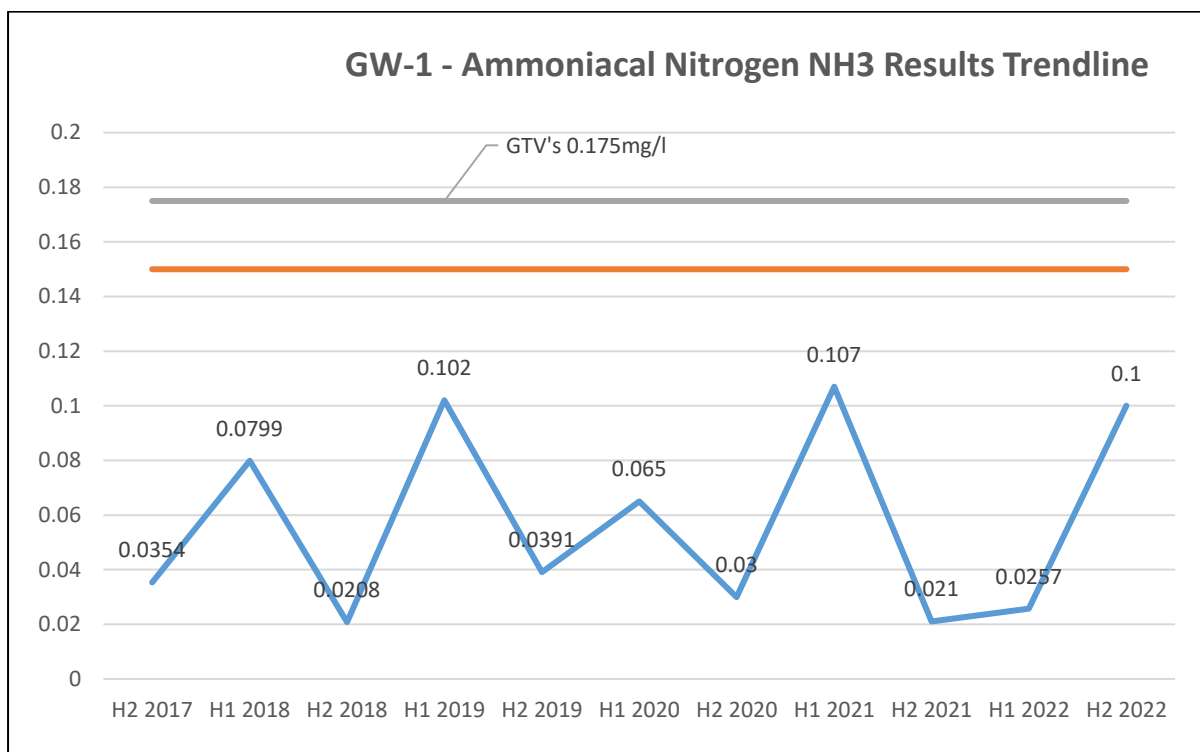
Table 2.

Parameter	Units	Freq.	GW-1 2022(2)	GW-1 2022(1)	GW-1 2021(2)	GW-1 2021(1)	GW-1 2020(2)	GW-1 2020(1)	IGV'S	GTV'S
Ammoniacal Nitrogen as NH₃	<0.2 mg/l	Bi-An	0.1	0.0257	0.021	0.107	0.03	0.065	0.15mg /l	65 – 175 µg/lN (0.065mg /l - 0.175mg/ l)
EPH Range >C10 –C40 (aq)	<46 µg/l	Bi-An	<100	<100	<100	<100	<100	<100	0.01mg /l	-



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Results are compared to Groundwater Threshold Values from S.I. No.9 of 2010, European Communities Environmental Objectives (Groundwater) Regulations, and also compared with the Interim Guideline Values for the protection of Groundwater in Ireland. Results obtained for 2022 are below the above mentioned thresholds.

If you have any queries on any aspect of the enclosed, please do not hesitate to contact the undersigned.

Yours sincerely

Ludmila Gabrisova
Environmental Manager
Mulleadys Ltd

WASTE MANAGEMENT DIVISION

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DIRECTORS: A. MULLEADY, D. MULLEADY
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Website: www.alsenvironmental.co.uk

Post Certification Report

Mulleady's Ltd
Cloonaugh
Drumlish
Co. Lonsford
Attention: Ludmila Gabrisova

Date:	01/06/2022	Location:	Drumlish, Mullingar
Customer:	Mulleady's Ltd	No. Of Samples Received:	1
Your Reference:	EPA Q2 2021	Samples Scheduled:	1

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM).



Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q2 2021

Location : Drumlish, Mullingar

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
26309229	GW - 1			17/05/2022

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : Mulleady's Ltd
 Client Reference : EPA Q2 2021

Location : Drumlish, Mullingar

Results Legend

- X Test
- N No Determination Possible

Lab Sample No(s)	26309229	
Customer Sample Reference	GW - 1	
AGS Reference		
Depth (m)		
Container	H2SO4 (ALE244) 1000ml glass bottle	
Ammonium Low	All	NDPs: 0 Tests: 1 X
EPH (DRO) (C10-C40) Aqueous (W)	All	NDPs: 0 Tests: 1 X



Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q2 2021

Location : Drumlish, Mullingar

Table of Results - Appendix

REPORT KEY

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	#	ISO 17025 Accredited	*	Subcontracted Test	M	MCERTS Accredited
NFD	No Fibres Detected	PFD	Possible Fibres Detected	»	Result previously reported (Incremental reports only)	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control

Method No	Reference	Description
TM061	Method for the Determination of EPH, Massachusetts Dept. of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)
TM099	BS 2690: Part 7:1968 / BS 6068: Part 2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser
TM172	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	EPH in Waters

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q2 2021

Location : Drumlish, Mullingar

Test Completion Dates

Lab Sample No(s)	26309229
Customer Sample Ref.	GW - 1
AGS Ref.	
Depth	
Type	GROUND_W
Ammonium Low	23-May-2022
EPH (DRO) (C10-C40) Aqueous (W)	25-May-2022



Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q2 2021

Location : Drumlish, Mullingar

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOL, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subject to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. Sample Deviations

If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
§	Sampled on date not provided

19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anorthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017)*.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



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Post Certification Report

Mulleady's Ltd
Cloonagh
Drumlish
Co. Lonsford
Attention: Ludmila Gabrisova

Date:	29/09/2022	Location:	Drumlish, Mullingar
Customer:	Mulleady's Ltd	No. Of Samples Received:	1
Your Reference:	EPA Q3 2022	Samples Scheduled:	1

Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM).



Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q3 2022

Location : Drumlish, Mullingar

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
26897448	GW-1 (SITE DRUMLISH)			16/09/2022

Only received samples which have had analysis scheduled will be shown on the following pages.



Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q3 2022

Location : Drumlish, Mullingar

Results Legend



Test



No Determination Possible

Lab Sample No(s)	26897448
Customer Sample Reference	GW-1 (SITE DRUMLISH)
AGS Reference	
Depth (m)	
Container	H2SO4 (ALE244) 1000ml glass bottle
Ammonium Low	All NDPs: 0 Tests: 1
EPH (DRO) (C10-C40) Aqueous (W)	All NDPs: 0 Tests: 1





Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q3 2022

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Table of Results - Appendix

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Post Certification Report

Customer : Mulleady's Ltd
Client Reference : EPA Q3 2022

Location : Drumlish, Mullingar

Test Completion Dates

Lab Sample No(s)	26897448
Customer Sample Ref.	GW-1 (SITE DRUM LISH)
AGS Ref.	
Depth	
Type	GROUND_W
Ammonium Low	27-Sep-2022
EPH (DRO) (C10-C40) Aqueous (W)	26-Sep-2022



Post Certification Report

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Client Reference : EPA Q3 2022

Location : Drumlish, Mullingar

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Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

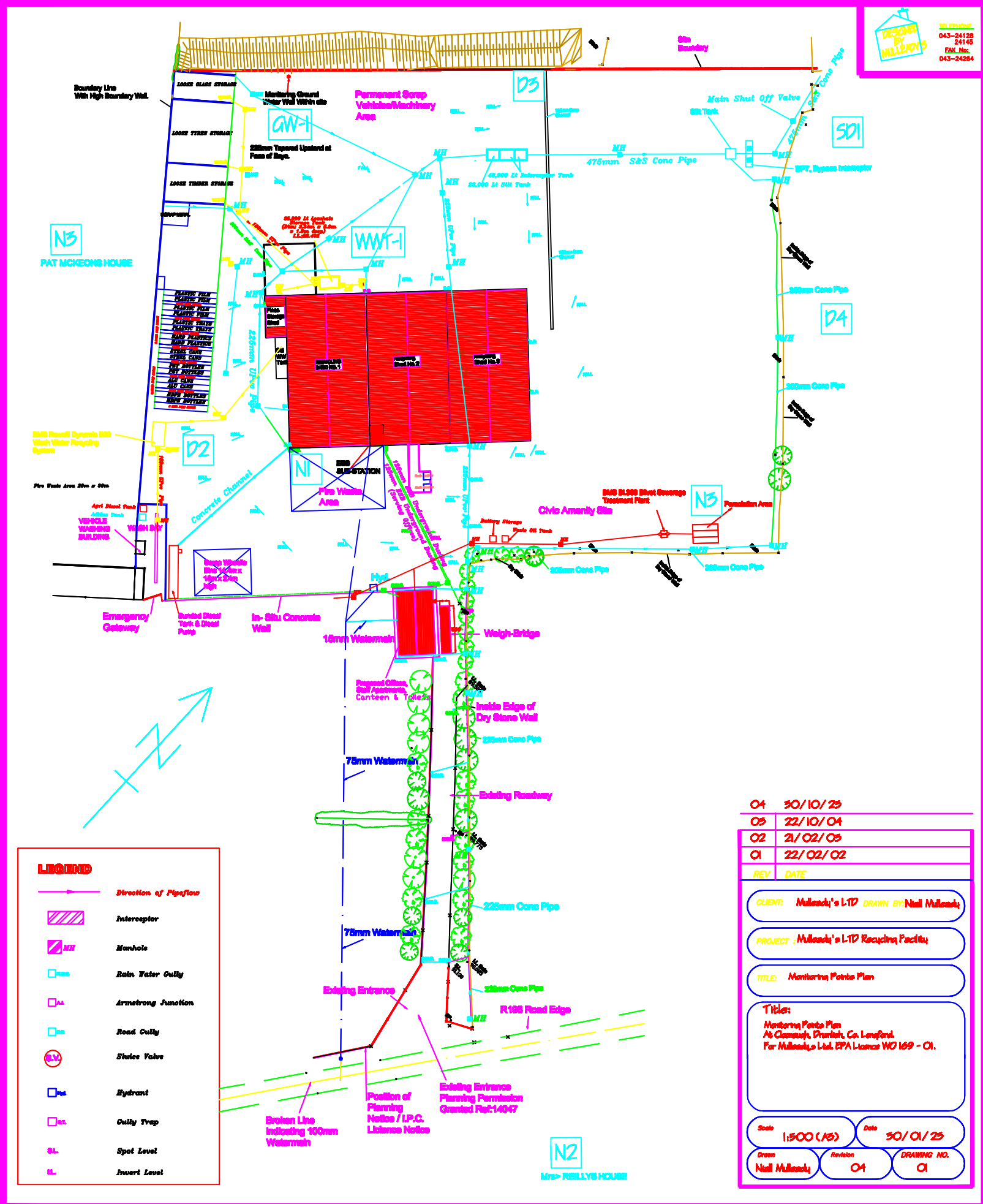
Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung. Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017)*.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

DESIGNED BY
MILLANEY'S

TELEPHONE:
043-24128
24145
FAX No.:
043-24264



LEGEND

- Direction of Pipeflow
- Interceptor
- Manhole
- Rain Water Gully
- Armstrong Junction
- Road Gully
- Sluice Valve
- Hydrant
- Gully Trap
- Spot Level
- Insert Level

01	30/10/25
05	22/10/04
02	21/02/05
01	22/02/02
REV	DATE
CLIENT: Millaneys LTD DRAWN BY: Neil Millaneys	
PROJECT: Millaneys LTD Recycling Facility	
TITLE: Monitoring Points Plan	
Title: Monitoring Points Plan At Clonsilla, Drumlish, Co. Louth. For Millaneys Ltd. EPA Licence WO 169 - 01.	
Scale	Date
1:500 (A3)	30/01/25
Drawn	Revision
Neil Millaneys	04
	DRAWING NO.
	01