



Final Report

Report No.: 24-29120-1

Initial Date of Issue: 28-Nov-2024

Re-Issue Details:

Client Tobin Consulting Engineers

Client Address: Block 10-4
Blanchardstown Corporate Park
Dublin 15
Dublin
Ireland

Contact(s): John Dillon

Project 11333

Quotation No.: Q24-34979

Date Received: 12-Nov-2024

Order No.:

Date Instructed: 12-Nov-2024

No. of Samples: 4

Turnaround (Wkdays): 5

Results Due: 28-Nov-2024

Date Approved: 28-Nov-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 11333 Ballincor

Client: Tobin Consulting Engineers		Chemtest Job No.:		24-29120	24-29120	24-29120	24-29120	24-29120	
Quotation No.: Q24-34979		Chemtest Sample ID.:		1857009	1857010	1857011	1857012	1857012	
		Sample Location:		SW1	SW2	SW3	SW4		
		Sample Type:		WATER	WATER	WATER	WATER		
		Sample Sub Type:							
		Date Sampled:		11-Nov-2024	11-Nov-2024	11-Nov-2024	11-Nov-2024	11-Nov-2024	
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
pH at 20C		U	1010		4.0	7.5	7.4	7.4	7.3
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	650	640	680	610
Suspended Solids At 105C		U	1030	mg/l	5.0	< 5.0	<5.0	<5.0	< 5.0
Chemical Oxygen Demand		U	1100	mg O2/l	10	< 10	< 10	21	< 10
Chloride		U	1220	mg/l	1.0	23	25	24	19
Nitrate as NO3		U	1220	mg/l	0.50	17	11.2	14.2	5.9
Mineral Oil (TPH Calculation)	EH_CU_1D_Total	N	1670	µg/l	10	< 10	< 10	< 10	< 10
Total TPH >C6-C40	EH_1D_Total	U	1670	µg/l	10	< 10	< 10	< 10	< 10

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	RE PW TE TS PL DW GW
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	TE TS PL LE SW GW
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C.	SW
1100	Chemical Oxygen Demand	Chemical Oxygen demand (COD)	Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr[VI].	TE TS PL LE GW
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	PL LE GW
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Water Sample Category Key for Accreditation

- DW - Drinking Water
- GW - Ground Water
- LE - Land Leachate
- NA - Not Applicable

Report Information

PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 24-27480-1

Initial Date of Issue: 02-Sep-2024

Re-Issue Details:

Client Tobin Consulting Engineers

Client Address: Block 10-4
Blanchardstown Corporate Park
Dublin 15
Dublin
Ireland

Contact(s): John Dillon

Project 11333

Quotation No.: Q24-34979

Date Received: 27-Aug-2024

Order No.:

Date Instructed: 27-Aug-2024

No. of Samples: 4

Turnaround (Wkdays): 5

Results Due: 02-Sep-2024

Date Approved: 02-Sep-2024

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Water

Project: 11333 Ballincor

Client: Tobin Consulting Engineers		Chemtest Job No.:				24-27480	24-27480	24-27480	24-27480
Quotation No.: Q24-34979		Chemtest Sample ID.:				1857009	1857010	1857011	1857012
		Sample Location:				SW1	SW2	SW3	SW4
		Sample Type:				WATER	WATER	WATER	WATER
		Sample Sub Type:							
		Date Sampled:				23-Aug-2024	23-Aug-2024	23-Aug-2024	23-Aug-2024
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
pH at 20C		U	1010		4.0	7.6	7.3	7.6	7.4
Electrical Conductivity at 25C		U	1020	µS/cm	1.0	710	610	710	620
Suspended Solids At 105C		U	1030	mg/l	5.0	< 5.0	8.0	8.0	< 5.0
Chemical Oxygen Demand		U	1100	mg O2/l	10	< 10	< 10	28	< 10
Chloride		U	1220	mg/l	1.0	29	30	42	18
Nitrate as NO3		U	1220	mg/l	0.50	13	9.1	14	< 0.50
Mineral Oil (TPH Calculation)	EH_CU_1D_Total	N	1670	µg/l	10	< 10	< 10	< 10	< 10
Total TPH >C6-C40	EH_1D_Total	U	1670	µg/l	10	< 10	< 10	< 10	< 10

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