# Tipperary County Council Historic Landfill Site Inspection Record

Name of Historic Landf	ill Site Inspected: Kilsheelan Landfill
Date: 22/11/2022	
Time: <u>08-55</u>	
Completed By: G Sweer	ney & B Quaid
Weather Conditions:	overeast & Damp.

**Instructions:** Walk the entire site and site boundary as far as is possible to check for and record any evidence of the items listed below and anything else of interest. Take photographs if appropriate.

- illegal dumping / litter
- odour
- leachate break out
- vegetation die-back
- general condition of the site
- invasive species

### Record of findings:

nothing to report of runcern.

# Kilsheelan Landfill Monitoring Report

Date & time: 22/11/2022

Completed by: G Sweeney & B Quaid

Weather Conditions: Dry, Damp, Cold.

CH4	13-6
CO2	13.2
02	2.2
Comment:	R.W.L. 7-60 @ 10.0

LW2	
CH4	<b>5</b> . 2
CO2	17.4
02	1-2
Comment:	
	R.W.L. @ 10.30 = 5.60



Project Name: Kilsheelan Landfill,

Sampled By: G Sweeney & B Quaid

Sampling Location: GW2

Date & Time of Sampling: 22/11/2022

Suite:

Sample Type: Groundwater

Weather: Dry, buercolst Air Pressure (mm Hg): 7406.

Low Flow Sampling Setup Details (If K>0.2m/d then fill/dischg. ~ 4 to 8 sec each; if K<0.2m/d then fill 20 to 30 sec & dischg. ~8 sec)

	3 7
Hydraulic Conductivity (m/d)	
Ground Level (mOD)	
Datum Level (mOD)	
Datum (D)	Top of 2 inch pipe
Rest Water Level: Date: 22/11/2022; & Time:	09.05
Rest Water Level (mbD) (RWL)	6.61
Min GWL Record (mbD)	
Top of Screen (mbD)	in the second se
Total Depth Dip (mbD)	A.
Calc. Screen length below RWL (m)	
Actual Pump Intake Installation Depth (mbD)	· ·
Pump Type, length and intake location	Solinst pump, 0.71m @base,

Field Parameter Record: (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings) Stabilisation Criteria:

Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;

Level & Flow: Groundwater Level Drawdown < 0.1m; Flow Rate 0.1 to 0.5 l/min

Time	T (°C)	pH [-]	EC μS/cm	ORP (mV)	D.O. (mg/l O <sub>2</sub> )	D.O. (% Sat)	Water Level (mbD)	Flow Rate (I/min)	Fill Time (Sec)	Discharge Time (Sec)
0930	10.9	6.75	1417		1.06	94	6.6)	032	10	10
09 23	111	6.57	1419		0.47	4-3	6.61	+1		
09-26	112	654	1416		0.39	36.	6.61			
09-269	11.3	6.53	1413		0.34	3.1	661			
								•		-
-								e e		

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:



Project Name: Kilsheelan Landfill,

Sampled By: G Sweeney & B Quaid

Sampling Location: GW3

Date & Time of Sampling: 22/11/2022

Suite:

Sample Type: Groundwater

Weather: Dry , Surry

Air Pressure (mm Hg): 74/ >

Low Flow Sampling Setup Details (If K>0.2m/d then fill/dischg. ~ 4 to 8 sec each; if K<0.2m/d then fill 20 to 30 sec & dischg. ~8 sec)

Hydraulic Conductivity (m/d)	
Ground Level (mOD)	
Datum Level (mOD)	
Datum (D)	Top of 2 inch pipe
Rest Water Level: Date: 22/11/2022; & Time:	13.05
Rest Water Level (mbD) (RWL)	3.86
Min GWL Record (mbD)	
Top of Screen (mbD)	
Total Depth Dip (mbD)	
Calc. Screen length below RWL (m)	
Actual Pump Intake Installation Depth (mbD)	
Pump Type, length and intake location	Solinst pump, 0.71m @base,

Field Parameter Record: (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings) Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min

Time	T (°C)	pH [-]	EC μS/cm	ORP (mV)	D.O. (mg/l O <sub>2</sub> )	D.O. (% Sat)	Water Level (mbD)	Flow Rate (l/min)	Fill Time (Sec)	Discharge Time (Sec)
13-12	10-2	7.24	730	1	7.98	71-1	3.86	0.280	10	10
13115	10.5	6-99	731		7.46	67-1	3.86			
1318	10.6	6.98	730		7-41	667.	386			
13.21.	10.6	6.94.	730		7.39	66.6	3.86			
-										

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

13.12 -> 13.17

grey, cloudy appearance. No odow.



Project Name: Kilsheelan Landfill	Sampled By: G.S. & B.Q.						
Sampling Location: LW1	Date & Time of Sampling: 22/11/2022						
Suite:	has	4	611				
Sample Type: LeachateWeat	ther:	rest,	2000C	Air Pressu	ıre (mm Hg):	740-8	
Low Flow Sampling Setup Details (If K>0.2m/d							
Hydraulic Conductivity (m/d)							
Ground Level (mOD)							
Datum Level (mOD)							
Datum (D)	Top of 2i	nch pipe					
Rest Water Level: Date: 22/11/2022; & Time:	10.05						
Rest Water Level (mbD) (RWL)	7.60						
Min GWL Record (mbD)							
Top of Screen (mbD)							
Total Depth Dip (mbD)							
Calc. Screen length below RWL (m)							
Actual Pump Intake Installation Depth (mbD)							
Pump Type, length and intake location	Solinst pu	ımp, 0.71ı	m @base,				

**Field Parameter Record:** (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings) Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min</li>

T (°C)	pH [-]	EC μS/cm	ORP (mV)	D.O. (mg/l O <sub>2</sub> )	D.O. (% Sat)	Water Level (mbD)	Flow Rate (I/min)	Fill Time (Sec)	Discharge Time (Sec)
11.7	6.74	2029		2.48	22.4	7.48	N/A.		
11.9	6.71	2061		1.49	13.3	7.42	7		
12.6	6.72	2049		1-41	13-1	7.40			
	(°C) 11.7 11.9	(°C) PH[-] 11.76.74 11.96.71	(°C) pH [-] μS/cm  11.76.74 2029  11.96.71 2061	(°C) pH [-] μS/cm (mV)  11.76.74 2029  11.96.71 2061	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(°C) $pH[-]$ $\mu S/cm$ $mV$ $mg/l$ $mg/l$ $mg/l$ $mg/l$ $mg/l$ $mg/l$ $mbD$ $me$ $me$ $me$ $me$ $me$ $me$ $me$ $me$

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

very strong leachate odour.

Men grey colour. Small suspended matter
in sample.

Sheen on sample serface



Project Name: Kilsheelan Landfill	Sampled By: G.S. & B.Q.						
Sampling Location: LW2	Date & Time of Sampling: 22/11/2022						
Suite:	0 -0 0						
Sample Type: LeachateWeat	her: Dry Cold Air Pressure (mm Hg): 7413						
	then fill/dischg. ~ 4 to 8 sec each; if K<0.2m/d then fill 20 to 30 sec & dischg. ~8 sec)						
Hydraulic Conductivity (m/d)							
Ground Level (mOD)							
Datum Level (mOD)							
Datum (D)	Top of 2 inch pipe						
Rest Water Level: Date: 22/11/2022; & Time:	10.30						
Rest Water Level (mbD) (RWL)	5.60						
Min GWL Record (mbD)							
Top of Screen (mbD)							
Total Depth Dip (mbD)							
Calc. Screen length below RWL (m)							
Actual Pump Intake Installation Depth (mbD)							
Pump Type, length and intake location	Solinst pump, 0.71m @base,						

**Field Parameter Record:** (Record Every 3 to 5 mins: Stabilisation = all params stable for 3 successive readings) Stabilisation Criteria:

- Water Quality: +/-0.1 pH units; +/-3% EC; +/-10mV for ORP; +/-10% D.O;
- Level & Flow: Groundwater Level Drawdown <0.1m; Flow Rate 0.1 to 0.5 l/min</li>

Time	T (°C)	pH [-]	EC μS/cm	ORP (mV)	D.O. (mg/l O <sub>2</sub> )	D.O. (% Sat)	Water Level (mbD)	Flow Rate (I/min)	Fill Time (Sec)	Discharge Time (Sec)
(0.35	12.4	6.53	2512		2-26	21-3	545	N/A		
(0.38	125	6-53	2604		2.16	20.5	5.41			
10.41	125	6.54	2591		2.18	21.1	5.35			

Sample Details (record container type and volume; sample filtration (if any); sample preservation (if any), No. of bottle rinses (if any); and, required analysis for each container.)

Comments:

Extremely dirty sample.

Sdourous.

Lot of suspended matter in sample.



#### **Eurofins Environment Testing Ireland**

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Client: **Tipperary County Council (Landfill)** 

**Tipperary County Council** 

**Civic Offices Limerick Road** Nenagh **Tipperary IRELAND** 

**Certificate Code:** AR-23-M3-001491-01

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## **Certificate of Analysis**

Sample number	966-2022-000408	00	Received or		22/11/2022		
			Analysis sta	arted on	23/11/2022		
Your sample reference	LW1 Kilsheelan						
Sample Matrix	Waste water						
Sample Condition on Arrival	Satisfactory		Sample Dat	te	22/11/2022		
Time Sampled	10:25						
Test Code	SUB 5 Analysis	Method	LOQ 3	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
Analyte	Started						
Sulphate mg/L - Gallery [M300N	N]						
Sulphate mg/L - Gallery	24/11/22 10:30	EW175	1		182	mg/l	
Phosphate (Ortho/MRP) as P -	Gallery [M300P]						
Phosphate (Ortho/MRP) as P -	24/11/22 10:30	EW175	0.05		0.125	mg/l	C6
Gallery Chloride mg/L - Gallery [M300S	1						
Chloride mg/L - Gallery	24/11/22 10:30	EW175	5		34.4	mg/l	C6
Total Oxidised Nitrogen (TON)		LWITS	3		04.4	mg/i	00
Total Oxidised Nitrogen (TON) as	* -	EW175	1		<1	mg/l	C6
Gallery	5 IN - 24/11/22 10.29	EWITS	'		~1	mg/i	00
Ammonia as N - Gallery [M3002	<u>Z]</u>						
Ammonia as N - Gallery	24/11/22 10:29	EW175	0.05		22.54	mg/l	
VOC Full Suite [M3023]							
1,1,1,2-Tetrachloroethane	* 08/12/22 08:59		0.2		< 2.0	μg/l	
1,1,1-Trichloroethane	* 08/12/22 08:59		0.1		< 1.0	μg/l	
1,1,2,2 Tetrachloroethane	* 08/12/22 08:59		0.5		< 50	μg/l	
1,1,2-Trichloroethane	* 08/12/22 08:59		0.1		< 10	μg/l	
1,1-Dichloroethane	* 08/12/22 08:59		0.1		< 1.0	μg/l	
		C 111					
		7 mma / lichall					
Signed:		Crimarin			1	16/01/2023	
0.9							

#### NOTES

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1,1-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,1-Dichloropropene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2,3-Trichlorobenzene	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,2,3-Trichloropropane	* 08/12/22 08:59	5	< 50	μg/l
1,2,4-Trichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2,4-Trimethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2-Dibromo-3-chloropropane	* 08/12/22 08:59	5	< 50	μg/l
1,2-Dibromoethane	* 08/12/22 08:59	0.5	< 5	μg/l
1,2-dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2-Dichloroethane	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,2-Dichloropropane	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3,5-Trimethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3-Dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3-Dichloropropane	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,4-dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1-Chlorobutane	* 08/12/22 08:59	1	< 5	μg/l
2,2-Dichloropropane	* 08/12/22 08:59	1	< 50	μg/l
2-Butanone (butanone)	* 08/12/22 08:59	1	< 10	μg/l
2-Chlorotoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
2-Hexanone	* 08/12/22 08:59	1	< 10	μg/l
4-Chlorotoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Acetone	* 08/12/22 08:59	1	< 1.0	μg/l
Acrylonitrile	* 08/12/22 08:59	2	< 10	μg/l
Benzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Bromobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l

Signed:

16/01/2023

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Bromochloromethane	* 08/12/22 08:59	0.5	< 5	μg/l
Bromodichloromethane	* 08/12/22 08:59	0.5	< 5	μg/l
Bromoform	* 08/12/22 08:59	1	< 10	μg/l
Bromomethane	* 08/12/22 08:59	2	< 5	μg/l
Carbon tetrachloride	* 08/12/22 08:59	1	< 10	μg/l
Carbondisulphide (CS2)	* 08/12/22 08:59	50	< 50	μg/l
Chlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Chloroform	* 08/12/22 08:59	1	< 10	μg/l
Chloromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
cis-1,2-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
cis-1,3-Dichloropropene	* 08/12/22 08:59	1	< 10	μg/l
Dibromochloromethane	* 08/12/22 08:59	1	< 10	μg/l
Dibromomethane	* 08/12/22 08:59	0.1	< 10	μg/l
Dichlorodifluoromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
Dichloromethane	* 08/12/22 08:59	50	< 50	μg/l
Diethylether	* 08/12/22 08:59	1	< 10	μg/l
Epichlorhydrin	* 08/12/22 08:59	5	< 10	μg/l
Ethyl Chloride	* 08/12/22 08:59	0.2	< 2.0	μg/l
Ethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Hexachlorobutadiene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Hexachloroethane	* 08/12/22 08:59	1	< 10	μg/l
lodomethane	* 08/12/22 08:59	10	< 10	μg/l
Isopropylbenzene (Cumene)	* 08/12/22 08:59	0.1	< 1.0	μg/l
m-/-p-Xylene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Methacrylonitrile	* 08/12/22 08:59	0.2	< 10	μg/l

Signed:

16/01/2023

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Methylmethacrylate	* 08/12/22 08:59		0.2	< 2.0	μg/l
Methyl-tert-butylether (MTBE)	* 08/12/22 08:59		0.1	< 1.0	μg/l
MIBK/4 Methyl 2 Pentanone	* 08/12/22 08:59		1	< 10	μg/l
Naphthalene	* 08/12/22 08:59		0.1	< 1.0	μg/l
n-Butylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Nitrobenzene	* 08/12/22 08:59		0.5	< 10	μg/l
o-Xylene	* 08/12/22 08:59		0.1	< 1.0	μg/l
p-Isopropyltoluene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Propylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
sec-Butylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Styrene	* 08/12/22 08:59		0.1	< 1.0	μg/l
tert-Butylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Tetrachloroethene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Tetrahydrofuran	* 08/12/22 08:59		1	< 5	μg/l
Toluene	* 08/12/22 08:59		0.1	< 1.0	μg/l
trans-1,2-Dichloroethene	* 08/12/22 08:59		0.1	< 1.0	μg/l
trans-1,3-Dichloropropene	* 08/12/22 08:59		1	< 10	μg/l
Trans-1,4-dichloro-2-butene (2)	* 08/12/22 08:59		1	< 10	μg/l
Trichloroethene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Trichloromonofluoromethane	* 08/12/22 08:59		0.1	< 1.0	μg/l
Vinyl chloride	* 08/12/22 08:59		0.1	< 1.0	μg/l
Aluminium-Total [M3198]					
Aluminium-Total	24/11/22 11:15	EW187	15	<15	μg/I C6
Arsenic-Total [M3200]					
Arsenic-Total	24/11/22 11:15	EW187	0.6	<0.6	μg/l C6
Barium-Total [M3201]					

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**Certificate Code:** AR-23-M3-001491-01

Page Number: Page 5 of 6 400368805 PO reference:

Barium-Total	24/11/22 11:15	EW187		433.1	μg/l	C6
Boron-Total [M3203]						
Boron-Total	24/11/22 11:15	EW187		0.7	mg/l	C6
Calcium-Total [M3205]						
Calcium-Total	24/11/22 11:15	EW187		319.8	mg/l	C6
Chromium-Total [M3206]						
Chromium-Total	24/11/22 11:15	EW187	3	3.90	μg/l	C6
Copper-Total [M3208]						
Copper-Total	24/11/22 11:15	EW187	0.09	<1.8	mg/l	C6
Iron-Total [M3209]						
Iron-Total	24/11/22 11:15	EW187		10670.8	μg/l	C6
Lead-Total [M3210]						
Lead-Total	24/11/22 11:15	EW187	0.9	<0.9	μg/l	C6
Magnesium-Total [M3211]						
Magnesium-Total	24/11/22 11:15	EW187		66.3	mg/l	C6
Manganese-Total [M3212]						
Manganese-Total	24/11/22 11:15	EW187	3	940.1	μg/l	
Nickel-Total [M3215]						
Nickel-Total	24/11/22 11:15	EW187	1.5	<1.5	μg/l	C6
Potassium-Total [M3217]						
Potassium-Total	24/11/22 11:15	EW187		39.7	mg/l	C6
Zinc-Total [M3233]						
Zinc-Total	24/11/22 11:15	EW187	20	<20	μg/l	C6
Conductivity [M3283]						
Conductivity	23/11/22 15:43	EW153	100	1858	μS/cm	C6

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Client: **Tipperary County Council (Landfill)** 

**Tipperary County Council** 

**Civic Offices Limerick Road** Nenagh **Tipperary IRELAND** 

Certificate Code: AR-23-M3-001491-01

Page Number: Page 6 of 6 PO reference: 400368805

### <sup>4</sup> Accreditiation Information

C6: ISO/IEC 17025:2017 INAB 138-T

Signed: _	Emma (lichill	16/01/2023
	Emma Nicholl -	

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**Civic Offices Limerick Road** Nenagh **Tipperary IRELAND** 

Certificate Code: AR-23-M3-001492-01

Page Number: Page 1 of 6 400368805 PO reference:

## **Certificate of Analysis**

Sample number	966-2022-0004080	01	Received or Analysis sta		22/11/2022 23/11/2022		
Your sample reference	LW2 Kilsheelan		•				
Sample Matrix	Waste water						
Sample Condition on Arrival	Satisfactory		Sample Date	Э	22/11/2022		
Time Sampled	11:00						
Test Code	SUB 5 Analysis	Method	LOQ 3	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
Analyte	Started						
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	24/11/22 10:30	EW175	1		706	mg/l	
Phosphate (Ortho/MRP) as P - Ga	illery [M300P]						
Phosphate (Ortho/MRP) as P - Gallery	24/11/22 10:30	EW175	0.05		0.218	mg/l	C6
Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	24/11/22 10:30	EW175	5		28.6	mg/l	C6
Total Oxidised Nitrogen (TON) as	N - Gallery [M300U]						
Total Oxidised Nitrogen (TON) as N	- 24/11/22 10:29	EW175	1		<1	mg/l	C6
Gallery Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	24/11/22 10:29	EW175	0.05		19.71	mg/l	
VOC Full Suite [M3023]							
1,1,1,2-Tetrachloroethane	* 08/12/22 08:59		0.2		< 2.0	μg/l	
1,1,1-Trichloroethane	* 08/12/22 08:59		0.1		< 1.0	μg/l	
1,1,2,2 Tetrachloroethane	* 08/12/22 08:59		0.5		< 50	μg/l	
1,1,2-Trichloroethane	* 08/12/22 08:59		0.1		< 10	μg/l	
1,1-Dichloroethane	* 08/12/22 08:59		0.1		< 1.0	μg/l	
		/ /					
		Zmma [lichill					
Signed:					1	6/01/2023	
-		Emma Nichol	II -				

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**Tipperary County Council** 

**Civic Offices Limerick Road** Nenagh

**Tipperary IRELAND**  **Certificate Code:** AR-23-M3-001492-01

Page Number: Page 2 of 6 400368805 PO reference:

1,1-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,1-Dichloropropene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2,3-Trichlorobenzene	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,2,3-Trichloropropane	* 08/12/22 08:59	5	< 50	μg/l
1,2,4-Trichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2,4-Trimethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2-Dibromo-3-chloropropane	* 08/12/22 08:59	5	< 50	μg/l
1,2-Dibromoethane	* 08/12/22 08:59	0.5	< 5	μg/l
1,2-dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2-Dichloroethane	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,2-Dichloropropane	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3,5-Trimethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3-Dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3-Dichloropropane	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,4-dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1-Chlorobutane	* 08/12/22 08:59	1	< 5	μg/l
2,2-Dichloropropane	* 08/12/22 08:59	1	< 50	μg/l
2-Butanone (butanone)	* 08/12/22 08:59	1	< 10	μg/l
2-Chlorotoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
2-Hexanone	* 08/12/22 08:59	1	< 10	μg/l
4-Chlorotoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Acetone	* 08/12/22 08:59	1	< 1.0	μg/l
Acrylonitrile	* 08/12/22 08:59	2	< 10	μg/l
Benzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Bromobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l

Signed:

16/01/2023

NOTES

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Page Number: Page 3 of 6 400368805 PO reference:

Bromochloromethane	* 08/12/22 08:59	0.5	< 5	μg/l
Bromodichloromethane	* 08/12/22 08:59	0.5	< 5	μg/l
Bromoform	* 08/12/22 08:59	1	< 10	μg/l
Bromomethane	* 08/12/22 08:59	2	< 5	μg/l
Carbon tetrachloride	* 08/12/22 08:59	1	< 10	μg/l
Carbondisulphide (CS2)	* 08/12/22 08:59	50	< 50	μg/l
Chlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Chloroform	* 08/12/22 08:59	1	< 10	μg/l
Chloromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
cis-1,2-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
cis-1,3-Dichloropropene	* 08/12/22 08:59	1	< 10	μg/l
Dibromochloromethane	* 08/12/22 08:59	1	< 10	μg/l
Dibromomethane	* 08/12/22 08:59	0.1	< 10	μg/l
Dichlorodifluoromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
Dichloromethane	* 08/12/22 08:59	50	< 50	μg/l
Diethylether	* 08/12/22 08:59	1	< 10	μg/l
Epichlorhydrin	* 08/12/22 08:59	5	< 10	μg/l
Ethyl Chloride	* 08/12/22 08:59	0.2	< 2.0	μg/l
Ethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Hexachlorobutadiene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Hexachloroethane	* 08/12/22 08:59	1	< 10	μg/l
lodomethane	* 08/12/22 08:59	10	< 10	μg/l
Isopropylbenzene (Cumene)	* 08/12/22 08:59	0.1	< 1.0	μg/l
m-/-p-Xylene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Methacrylonitrile	* 08/12/22 08:59	0.2	< 10	μg/l

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**Civic Offices Limerick Road** Nenagh **Tipperary** 

**IRELAND** 

Certificate Code: AR-23-M3-001492-01

Page Number: Page 4 of 6 400368805 PO reference:

Methylmethacrylate	* 08/12/22 08:59		0.2	< 2.0	μg/l
Methyl-tert-butylether (MTBE)	* 08/12/22 08:59		0.1	< 1.0	μg/l
MIBK/4 Methyl 2 Pentanone	* 08/12/22 08:59		1	< 10	μg/l
Naphthalene	* 08/12/22 08:59		0.1	< 1.0	μg/l
n-Butylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Nitrobenzene	* 08/12/22 08:59		0.5	< 10	μg/l
o-Xylene	* 08/12/22 08:59		0.1	< 1.0	μg/l
p-Isopropyltoluene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Propylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
sec-Butylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Styrene	* 08/12/22 08:59		0.1	< 1.0	μg/l
tert-Butylbenzene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Tetrachloroethene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Tetrahydrofuran	* 08/12/22 08:59		1	< 5	μg/l
Toluene	* 08/12/22 08:59		0.1	< 1.0	μg/l
trans-1,2-Dichloroethene	* 08/12/22 08:59		0.1	< 1.0	μg/l
trans-1,3-Dichloropropene	* 08/12/22 08:59		1	< 10	μg/l
Trans-1,4-dichloro-2-butene (2)	* 08/12/22 08:59		1	< 10	μg/l
Trichloroethene	* 08/12/22 08:59		0.1	< 1.0	μg/l
Trichloromonofluoromethane	* 08/12/22 08:59		0.1	< 1.0	μg/l
Vinyl chloride	* 08/12/22 08:59		0.1	< 1.0	μg/l
Aluminium-Total [M3198]					
Aluminium-Total	24/11/22 11:15	EW187	15	19.9	μg/I C6
Arsenic-Total [M3200]					
Arsenic-Total	24/11/22 11:15	EW187	0.6	4.0	μg/l C6
Barium-Total [M3201]					

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**Civic Offices Limerick Road** Nenagh **Tipperary IRELAND** 

**Certificate Code:** AR-23-M3-001492-01

Page Number: Page 5 of 6 400368805 PO reference:

Barium-Total	24/11/22 11:15	EW187		65	μg/l	C6
Boron-Total [M3203]						
Boron-Total	24/11/22 11:15	EW187		1	mg/l	C6
Calcium-Total [M3205]						
Calcium-Total	24/11/22 11:15	EW187		459.4	mg/l	C6
Chromium-Total [M3206]						
Chromium-Total	24/11/22 11:15	EW187	3	3.00	μg/l	C6
Copper-Total [M3208]						
Copper-Total	24/11/22 11:15	EW187	0.09	<1.8	mg/l	C6
Iron-Total [M3209]						
Iron-Total	24/11/22 11:15	EW187		2817.7	μg/l	C6
Lead-Total [M3210]						
Lead-Total	24/11/22 11:15	EW187	0.9	2.0	μg/l	C6
Magnesium-Total [M3211]						
Magnesium-Total	24/11/22 11:15	EW187		128.1	mg/l	C6
Manganese-Total [M3212]						
Manganese-Total	24/11/22 11:15	EW187	3	1644.7	μg/l	
Nickel-Total [M3215]						
Nickel-Total	24/11/22 11:15	EW187	1.5	19.30	μg/l	C6
Potassium-Total [M3217]						
Potassium-Total	24/11/22 11:15	EW187		36.4	mg/l	C6
Zinc-Total [M3233]						
Zinc-Total	24/11/22 11:15	EW187	20	88	μg/l	C6
Conductivity [M3283]						
Conductivity	23/11/22 15:43	EW153	100	2359	μS/cm	C6

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Certificate Code: AR-23-M3-001492-01

Page Number: Page 6 of 6 PO reference: 400368805

### <sup>4</sup> Accreditiation Information

C6: ISO/IEC 17025:2017 INAB 138-T

Signed:	Emma (licholl	16/01/2023
	Emma Nicholl -	

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**Civic Offices Limerick Road** Nenagh **Tipperary IRELAND** 

Certificate Code: AR-23-M3-001493-01

Page Number: Page 1 of 6 400368805 PO reference:

## **Certificate of Analysis**

Sample number	966-2022-0004080	)5	Received on Analysis star		22/11/2022 23/11/2022		
Your sample reference	GW2 Kilsheelan						
Sample Matrix	Ground water						
Sample Condition on Arrival	Satisfactory		Sample Date	9	22/11/2022		
Time Sampled	09:35			2			
Test Code Analyte	SUB <sup>5</sup> Analysis Started	Method	LOQ <sup>3</sup>	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	24/11/22 09:59	EW175	1		90.2	mg/l	C6
Phosphate (Ortho/MRP) as P - Ga	allery [M300P]						
Phosphate (Ortho/MRP) as P -	24/11/22 09:59	EW175	0.05		<0.05	mg/l	C6
Gallery Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery	24/11/22 09:59	EW175	5		65.1	mg/l	C6
Total Oxidised Nitrogen (TON) as	N - Gallery [M300U]						
Total Oxidised Nitrogen (TON) as N Gallery	I - 24/11/22 09:58	EW175	1		5.639	mg/l	C6
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	24/11/22 09:58	EW175	0.05		1.18	mg/l	
VOC Full Suite [M3023]							
1,1,1,2-Tetrachloroethane	* 08/12/22 08:59		0.2		< 2.0	μg/l	
1,1,1-Trichloroethane	* 08/12/22 08:59		0.1		< 1.0	μg/l	
1,1,2,2 Tetrachloroethane	* 08/12/22 08:59		0.5		< 50	μg/l	
1,1,2-Trichloroethane	* 08/12/22 08:59		0.1		< 10	μg/l	
1,1-Dichloroethane	* 08/12/22 08:59		0.1		< 1.0	μg/l	
		C 111					
		7 mma / lichall					
Signed:		Chillian			1	16/01/2023	
0.9.104.1		Emma Nichol	l -				

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**Civic Offices Limerick Road** Nenagh

**Tipperary IRELAND**  **Certificate Code:** AR-23-M3-001493-01

Page Number: Page 2 of 6 400368805 PO reference:

1,1-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,1-Dichloropropene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2,3-Trichlorobenzene	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,2,3-Trichloropropane	* 08/12/22 08:59	5	< 50	μg/l
1,2,4-Trichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2,4-Trimethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2-Dibromo-3-chloropropane	* 08/12/22 08:59	5	< 50	μg/l
1,2-Dibromoethane	* 08/12/22 08:59	0.5	< 5	μg/l
1,2-dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,2-Dichloroethane	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,2-Dichloropropane	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3,5-Trimethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3-Dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1,3-Dichloropropane	* 08/12/22 08:59	0.2	< 2.0	μg/l
1,4-dichlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
1-Chlorobutane	* 08/12/22 08:59	1	< 5	μg/l
2,2-Dichloropropane	* 08/12/22 08:59	1	< 50	μg/l
2-Butanone (butanone)	* 08/12/22 08:59	1	< 10	μg/l
2-Chlorotoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
2-Hexanone	* 08/12/22 08:59	1	< 10	μg/l
4-Chlorotoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Acetone	* 08/12/22 08:59	1	< 1.0	μg/l
Acrylonitrile	* 08/12/22 08:59	2	< 10	μg/l
Benzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Bromobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l

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**Tipperary County Council** 

**Civic Offices Limerick Road** Nenagh

**Tipperary IRELAND**  **Certificate Code:** AR-23-M3-001493-01

Page Number: Page 3 of 6 400368805 PO reference:

Bromochloromethane	* 08/12/22 08:59	0.5	< 5	μg/l
Bromodichloromethane	* 08/12/22 08:59	0.5	< 5	μg/l
Bromoform	* 08/12/22 08:59	1	< 10	μg/l
Bromomethane	* 08/12/22 08:59	2	< 5	μg/l
Carbon tetrachloride	* 08/12/22 08:59	1	< 10	μg/l
Carbondisulphide (CS2)	* 08/12/22 08:59	50	< 50	μg/l
Chlorobenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Chloroform	* 08/12/22 08:59	1	< 10	μg/l
Chloromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
cis-1,2-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
cis-1,3-Dichloropropene	* 08/12/22 08:59	1	< 10	μg/l
Dibromochloromethane	* 08/12/22 08:59	1	< 10	μg/l
Dibromomethane	* 08/12/22 08:59	0.1	< 10	μg/l
Dichlorodifluoromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
Dichloromethane	* 08/12/22 08:59	50	< 50	μg/l
Diethylether	* 08/12/22 08:59	1	< 10	μg/l
Epichlorhydrin	* 08/12/22 08:59	5	< 10	μg/l
Ethyl Chloride	* 08/12/22 08:59	0.2	< 2.0	μg/l
Ethylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Hexachlorobutadiene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Hexachloroethane	* 08/12/22 08:59	1	< 10	μg/l
lodomethane	* 08/12/22 08:59	10	< 10	μg/l
Isopropylbenzene (Cumene)	* 08/12/22 08:59	0.1	< 1.0	μg/l
m-/-p-Xylene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Methacrylonitrile	* 08/12/22 08:59	0.2	< 10	μg/l

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Certificate Code: AR-23-M3-001493-01

Page Number: Page 4 of 6 400368805 PO reference:

Methylmethacrylate	* 08/12/22 08:59	0.2	< 2.0	μg/l
Methyl-tert-butylether (MTBE)	* 08/12/22 08:59	0.1	< 1.0	μg/l
MIBK/4 Methyl 2 Pentanone	* 08/12/22 08:59	1	< 10	μg/l
Naphthalene	* 08/12/22 08:59	0.1	< 1.0	μg/l
n-Butylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Nitrobenzene	* 08/12/22 08:59	0.5	< 10	μg/l
o-Xylene	* 08/12/22 08:59	0.1	< 1.0	μg/l
p-Isopropyltoluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Propylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
sec-Butylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Styrene	* 08/12/22 08:59	0.1	< 1.0	μg/l
tert-Butylbenzene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Tetrachloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Tetrahydrofuran	* 08/12/22 08:59	1	< 5	μg/l
Toluene	* 08/12/22 08:59	0.1	< 1.0	μg/l
trans-1,2-Dichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
trans-1,3-Dichloropropene	* 08/12/22 08:59	1	< 10	μg/l
Trans-1,4-dichloro-2-butene (2)	* 08/12/22 08:59	1	< 10	μg/l
Trichloroethene	* 08/12/22 08:59	0.1	< 1.0	μg/l
Trichloromonofluoromethane	* 08/12/22 08:59	0.1	< 1.0	μg/l
Vinyl chloride	* 08/12/22 08:59	0.1	< 1.0	μg/l
Aluminium - Dissolved [M3157]				
Aluminium	24/11/22 11:22	EW188 5	8.4	μg/I C6
Arsenic - Dissolved [M3159]				
Arsenic	24/11/22 11:22	EW188	0.244	μg/l C6
Barium - Dissolved [M3160]				

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**Civic Offices Limerick Road** Nenagh **Tipperary IRELAND** 

**Certificate Code:** AR-23-M3-001493-01

Page Number: Page 5 of 6 400368805 PO reference:

Barium (Ba)	24/11/22 11:22	EW188	1.77	57.723	μg/l	C6
Boron - Dissolved [M3163]						
Boron (B)	24/11/22 11:22	EW188	0.21	1.645	mg/l	C6
Calcium - Dissolved [M3165]						
Calcium (Ca)	24/11/22 11:22	EW188	1.08	209.312	mg/l	
Copper - Dissolved [M3168]						
Copper (Cu)	24/11/22 11:22	EW188	0.6	<0.6	mg/l	C6
Iron - Dissolved [M3172]						
Iron (Fe)	24/11/22 11:22	EW188	5	15.116	μg/l	C6
Lead - Dissolved [M3173]						
Lead (Pb)	24/11/22 11:22	EW188	0.51	<0.51	μg/l	C6
Magnesium - Dissolved [M3174]						
Magnesium (Mg)	24/11/22 11:22	EW188	1.11	37.146	mg/l	C6
Manganese - Dissolved [M3175]						
Manganese (Mn)	24/11/22 11:22	EW188		13	μg/l	C6
Nickel - Dissolved [M3178]						
Nickel (Ni)	24/11/22 11:22	EW188		3.197	μg/l	C6
Potassium - Dissolved [M3180]						
Potassium (K)	24/11/22 11:22	EW188	0.15	21.494	mg/l	
Zinc - Dissolved [M3194]						
Zinc (Zn)	24/11/22 11:22	EW188	1	41.6	μg/l	C6
Chromium-Total [M3206]						
Chromium-Total	24/11/22 11:15	EW187	3	<3	μg/l	
pH [M3282]						
рН	23/11/22 15:43 <sup>7A</sup>	EW158		6.6		
Conductivity [M3283]						
Conductivity	23/11/22 15:43	EW153	100	1286	μS/cm	C6

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Certificate Code: AR-23-M3-001493-01

Page Number: Page 6 of 6 PO reference: 400368805

### <sup>4</sup> Accreditiation Information

C6: ISO/IEC 17025:2017 INAB 138-T

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Certificate Code: AR-23-M3-001497-01

Page Number: Page 1 of 5 400368805 PO reference:

## **Certificate of Analysis**

Sample number	966-2022-0004080	06	Received or Analysis sta		22/11/2022 23/11/2022		
Your sample reference	GW3 Kilsheelan		·				
Sample Matrix	Ground water						
Sample Condition on Arrival	Satisfactory		Sample Dat	е	22/11/2022		
Time Sampled	13:30						
Test Code	SUB <sup>5</sup> Analysis	Method	LOQ 3	SPEC <sup>2</sup>	Result	Units	ACCRED <sup>4</sup>
Analyte	Started						
Sulphate mg/L - Gallery [M300N]							
Sulphate mg/L - Gallery	24/11/22 09:59	EW175	1		25.3	mg/l	C6
Phosphate (Ortho/MRP) as P - Gal	llery [M300P]						
Phosphate (Ortho/MRP) as P -	24/11/22 09:59	EW175	0.05		<0.05	mg/l	C6
Gallery Chloride mg/L - Gallery [M300S]							
Chloride mg/L - Gallery [M3003]	24/11/22 09:59	EW175	5		22.4	mg/l	C6
• •		EVV173	3		22.4	mg/i	00
Total Oxidised Nitrogen (TON) as		EW175	1		8.655	m a /l	C6
Total Oxidised Nitrogen (TON) as N Gallery	- 24/11/22 09.50	EVVI75	1		0.000	mg/l	Co
Ammonia as N - Gallery [M300Z]							
Ammonia as N - Gallery	24/11/22 09:58	EW175	0.05		<0.05	mg/l	C6
Aluminium - Dissolved [M3157]							
Aluminium	24/11/22 11:22	EW188	5		<5	μg/l	C6
Arsenic - Dissolved [M3159]							
Arsenic	24/11/22 11:22	EW188			<0.2	μg/l	C6
Barium - Dissolved [M3160]							
Barium (Ba)	24/11/22 11:22	EW188	1.77		44.04	μg/l	C6
		C 1.11					
		(المنار) مسرك					
		CWW HOUR			1	6/01/2023	
Signed:		Common Nicht of			'	0/0 1/2020	
		Emma Nicho	II <b>-</b>				

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Certificate Code: AR-23-M3-001497-01

Page Number: Page 2 of 5 400368805 PO reference:

Boron -	D	isso	lved	[M31	63]
---------	---	------	------	------	-----

Boron (B)	24/11/22 11:22	EW188	0.21	<0.21	mg/l	C6
Calcium - Dissolved [M3165]						
Calcium (Ca)	24/11/22 11:22	EW188	1.08	133.175	mg/l	
Copper - Dissolved [M3168]						
Copper (Cu)	24/11/22 11:22	EW188	0.6	<0.6	mg/l	C6
Iron - Dissolved [M3172]						
Iron (Fe)	24/11/22 11:22	EW188	5	9.802	μg/l	C6
Lead - Dissolved [M3173]						
Lead (Pb)	24/11/22 11:22	EW188	0.51	<0.51	μg/l	C6
Magnesium - Dissolved [M3174]						
Magnesium (Mg)	24/11/22 11:22	EW188	1.11	12.582	mg/l	C6
Manganese - Dissolved [M3175]						
Manganese (Mn)	24/11/22 11:22	EW188		3.515	μg/l	C6
Nickel - Dissolved [M3178]						
Nickel (Ni)	24/11/22 11:22	EW188		1.042	μg/l	C6
Potassium - Dissolved [M3180]						
Potassium (K)	24/11/22 11:22	EW188	0.15	2.6	mg/l	C6
Zinc - Dissolved [M3194]						
Zinc (Zn)	24/11/22 11:22	EW188	1	9.24	μg/l	C6
Chromium-Total [M3206]						
Chromium-Total	24/11/22 11:15	EW187	3	<3	μg/l	
pH [M3282]						
pH	23/11/22 15:43 <sup>7A</sup>	EW158		6.9		
Conductivity [M3283]						
Conductivity	23/11/22 15:43	EW153	100	678.2	μS/cm	C6

Volatile organic compounds(VOC) low level in water [M502Z]

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**Tipperary County Council** 

**Civic Offices Limerick Road** Nenagh

**Tipperary IRELAND**  **Certificate Code:** AR-23-M3-001497-01

Page Number: Page 3 of 5 400368805 PO reference:

1,1,1,2-Tetrachloroethane	* 29/11/22 08:52	0.2	<0.2	μg/l
1,1,1-Trichloroethane	* 29/11/22 08:52	0.1	<0.1	μg/l
1,1,2-Trichloroethane	* 29/11/22 08:52	0.1	<0.1	μg/l
1,1-Dichloroethane	* 29/11/22 08:52	0.1	<0.1	μg/l
1,1-Dichloroethene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,1-Dichloropropene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,2,3-Trichlorobenzene	* 29/11/22 08:52	0.2	<0.2	μg/l
1,2,3-Trichloropropane	* 29/11/22 08:52	5	<5	μg/l
1,2,4-Trichlorobenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,2,4-Trimethylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,2-Dibromo-3-chloropropane	* 29/11/22 08:52	5	<5	μg/l
1,2-Dibromoethane	* 29/11/22 08:52	0.5	<0.5	μg/l
1,2-Dichlorobenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,2-Dichloroethane	* 29/11/22 08:52	0.2	<0.2	μg/l
1,2-Dichloropropane	* 29/11/22 08:52	0.1	<0.1	μg/l
1,3,5-trimethylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,3-Dichlorobenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
1,3-Dichloropropane	* 29/11/22 08:52	0.2	<0.2	μg/l
1,4-dichlorobenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
2-Chlorotoluene	* 29/11/22 08:52	0.1	<0.1	μg/l
4-Chlorotoluene	* 29/11/22 08:52	0.1	<0.1	μg/l
Benzene	* 29/11/22 08:52	0.1	<0.1	μg/l
Bromobenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
Bromochloromethane	* 29/11/22 08:52	0.5	<0.5	μg/l
Bromodichloromethane	* 29/11/22 08:52	0.5	<0.5	μg/l

Signed:

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#### NOTES

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**Tipperary IRELAND**  **Certificate Code:** AR-23-M3-001497-01

Page Number: Page 4 of 5 400368805 PO reference:

Bromomethane	* 29/11/22 08:52	2	<2	μg/l
Chlorobenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
Chloroethane	* 29/11/22 08:52	0.2	<0.2	μg/l
Chloroform (Trichloromethane)	* 29/11/22 08:52	0.1	<0.1	μg/l
Chloromethane	* 29/11/22 08:52	0.1	<0.1	μg/l
cis-1,2-Dichloroethene	* 29/11/22 08:52	0.1	<0.1	μg/l
cis-1,3-Dichloropropene	* 29/11/22 08:52	1	<1	μg/l
Dibromochloromethane	* 29/11/22 08:52	1	<1	μg/l
Dibromomethane	* 29/11/22 08:52	0.1	<0.1	μg/l
Dichlorodifluoromethane	* 29/11/22 08:52	0.1	<0.1	μg/l
Ethylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
Hexachlorobutadiene	* 29/11/22 08:52	0.1	<0.1	μg/l
iso-Propylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
m-/-p-Xylene	* 29/11/22 08:52	0.1	<0.1	μg/l
Methyl-tert-butylether (MTBE)	* 29/11/22 08:52	0.1	<0.1	μg/l
n-Butylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
n-Propylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
o-Xylene	* 29/11/22 08:52	0.1	<0.1	μg/l
p-Isopropyltoluene	* 29/11/22 08:52	0.1	<0.1	μg/l
sec-Butylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
Styrene	* 29/11/22 08:52	0.1	<0.1	μg/l
tert-Butylbenzene	* 29/11/22 08:52	0.1	<0.1	μg/l
Tetrachloroethene	* 29/11/22 08:52	0.1	<0.1	μg/l
Tetrachloromethane	* 29/11/22 08:52	0.1	<0.1	μg/l
Toluene	* 29/11/22 08:52	0.1	<0.1	μg/l

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**Tipperary County Council** 

**Civic Offices Limerick Road** 

Nenagh **Tipperary IRELAND**  Certificate Code: AR-23-M3-001497-01

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400368805 PO reference:

trans-1,2-Dichloroethene	* 29/11/22 08:52	0.1	<0.1	μg/l
trans-1,3-Dichloropropene	* 29/11/22 08:52	1	<1	μg/l
Tribromomethane	* 29/11/22 08:52	1	<1	μg/l
Trichloroethene	* 29/11/22 08:52	0.1	<0.1	μg/l
Trichlorofluoromethane	* 29/11/22 08:52	0.1	<0.1	μg/l
Vinyl chloride	* 29/11/22 08:52	0.1	<0.1	μg/l

<sup>&</sup>lt;sup>4</sup> Accreditiation Information

C6: ISO/IEC 17025:2017 INAB 138-T

Signed:	Emma (Tichall	16/01/2023
	Emma Nicholl -	

- 1. This Report shall not be reproduced, except in full, without the permission of the Laboratory and only relates to the items tested.
- 2. SPEC = Allowable limit or parametric value.
  3. LOQ = Limit of Quantification or lowest value that can be reported.
- ACCRED = Indicates accreditation for the test, a blank field indicates not accredited
   "\*" indicates the test was sub-contracted
- 6. No date of sampling was supplied, sample stability cannot be assessed, results may be compromised.
- 7A. This result is compromised as it was tested outside of stability times.
- 7C. Sample not received in appropriate containers, therefore results may be compromised.
- 7D. This result is comprised as the sample was received by the laboratory outside of the holding time.