

Customer

Pascal Rooney
Monaghan County Council
Water Services
Monaghan

Certificate Of Analysis

Job Number: 16-18116
Issue Number: 1
Report Date: 4 July 2016

Site: Not Applicable
PO Number: Not Supplied
Date Samples Received: 13/06/2016

Please find attached the results for the samples received at our laboratory on 13/06/2016.

Should you have any queries regarding the report or require any further services, we would be happy to discuss your requirements. For additional information about the company please log-on to our website at the above address.

Thank you for choosing City Analysts Limited. We look forward to assisting you again.

Authorised By:



Caitlin Quinn
Deputy Quality Manager

Authorised Date: 4 July 2016

Notes:

Results relate only to the items tested.
Information on methods of analysis and performance characteristics is available on request.
Any opinions or interpretations indicated are outside the scope of our INAB accreditation.
This test report shall not be reproduced except in full or with written approval of City Analysts Limited.

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Report Reference: 16-18116

Report Version: 1

Site: Not Applicable

Sample Description: E284483 N308919 Donaghamoyne GWS

Date of Sampling: 13/06/2016

Sample Type: Treated

Date Sample Received: 13/06/2016

Lab Reference Number: 321812

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
S/S1016#	21/06/2016	1,2-Dichloroethane	< 0.50	ug/l	<= 3.00
D/D3001#	15/06/2016	Aluminium, Total	31.23	ug/l	<= 200.00
D/D3000#	15/06/2016	Ammonia as NH4	0.021	mg/l	<= 0.300
*U	-	Antimony	< 0.33	ug/l	<= 5.00
*U	-	Arsenic	0.76	ug/l	<= 10.00
S/S#	21/06/2016	Benzene	< 0.50	ug/l	<= 1.00
D/D3001#	14/06/2016	Boron	< 50.00	ug/l	<= 1000.00
U	-	Bromate as BrO3	1.30	ug/l	<= 10.00
U	-	Metaldehyde	< 0.01	ug/l	-
D/D3001#	15/06/2016	Cadmium	0.28	ug/l	<= 5.00

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D/D3006	13/06/2016	Chlorine, Free	0.030	mg/l	-
D/D3000#	15/06/2016	Chloride	20.323	mg/l	<= 250.000
D/D3001#	15/06/2016	Chromium	3.14	ug/l	<= 50.00
D/D3010#	15/06/2016	Colour True	< 5.00	Hazen	NAC & ATC
D/D3011#	13/06/2016	Conductivity @ 20 °C	160.7	uS/cm @20 °C	<= 2500.0
D/D3001#	15/06/2016	Copper	11.91	ug/l	<= 2000.00
*U	-	Cyanide, Total	2.20	ug/l	<= 50.00
*U	-	Cypermethrin	< 0.00	ug/l	-
*	-	Epichlorohydrin	< 0.10	ug/l	<= 0.10
*U	-	Acrylamide	< 0.013	ug/l	<= 0.100

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D/D3015#	20/06/2016	Fluoride	< 0.1	mg/l	<= 0.9
*U	-	Glyphosate	< 0.01	ug/l	-
D/D3001#	17/06/2016	Magnesium	< 0.150	mg/l	-
D/D3001#	15/06/2016	Iron	< 7.20	ug/l	<= 200.00
D/D3001#	15/06/2016	Lead	1.64	ug/l	<= 10.00
*U	-	Mercury	< 0.06	ug/l	<= 1.00
D/D3000#	15/06/2016	Nitrite as N	< 0.005	mg/l	-
D/D3000#	15/06/2016	Nitrate as N	< 2.000	mg/l	-
D/D3001#	15/06/2016	Nickel	1.14	ug/l	<= 20.00
D/	15/06/2016	Odour	0	N/A	-

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D/	15/06/2016	Taste (Nature)	0	N/A	-
D/D1041#	13/06/2016	PH	7.13	pH Unit	6.50 - 9.50
*U	-	Selenium	< 0.16	ug/l	<= 10.00
D/D3001#	17/06/2016	Sodium	11.099	mg/l	<= 200.000
D/D3000#	16/06/2016	Sulphate	< 20.000	mg/l	<= 250.000
S/S1016#	21/06/2016	Tetrachloroethene	< 0.60	ug/l	<= 10.00
S/S3224#	16/06/2016	Total Organic Carbon	7.460	mg/l	NAC & ATC
S/S#	21/06/2016	Trichloroethene	< 0.60	ug/l	<= 10.00
D/D3054#	15/06/2016	Turbidity	0.44	NTU	NAC & ATC
*U	-	Vinyl Chloride	< 0.50	ug/l	<= 0.10

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D/D1214#	13/06/2016	Clostridium perfringens	< 1	cfu/100ml	<= 0
D/D1201#	13/06/2016	Coliforms	< 1.0	MPN/100ml	<= 0.0
D/D1201#	13/06/2016	E.coli	< 1.0	MPN/100ml	<= 0.0
D/D3200	13/06/2016	Faecal Enterococci	< 1.0	MPN/100ml	<= 0.0
D/D1208#	13/06/2016	TVC @ 22°C	< 1	cfu/ml	NAC
Acid Herbicides					
*U	-	2,3,6-TBA Trichlorobenzoic Acid	< 0.01	ug/l	-
*U	-	2,4,5-T	< 0.01	ug/l	-
*U	-	2,4,5-TP Fenoprop	< 0.01	ug/l	-
*U	-	2,4-D	< 0.01	ug/l	-

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*U	-	2,4-DB	< 0.01	ug/l	-
*U	-	2,4-DP Dichlorprop	< 0.01	ug/l	-
*U	-	Asulam	< 0.01	ug/l	-
*U	-	Benazolin	< 0.01	ug/l	-
*U	-	Bentazone	< 0.00	ug/l	-
*U	-	Bromoxynil	< 0.01	ug/l	-
*U	-	Clopyralid	< 0.02	ug/l	-
*U	-	Dicamba	< 0.02	ug/l	-
*U	-	Fluroxypyr	< 0.01	ug/l	-
*U	-	Imazapyr	< 0.01	ug/l	-

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*U	-	loxynil	< 0.00	ug/l	-
*U	-	MCPA	0.01	ug/l	-
*U	-	MCPB	< 0.01	ug/l	-
*U	-	MCPB (Mecoprop)	< 0.00	ug/l	-
*U	-	Pentachlorophenol	< 0.01	ug/l	-
*U	-	Triclopyr	< 0.01	ug/l	-
Acid Herbicides					
*U	-	Clopyralid	< 0.01	ug/l	<= 0.10
*U	-	Fenoprop	< 0.01	ug/l	<= 0.10
OCP					

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*U	-	Dieldrin	< 0.01	ug/l	<= 0.03
*U	-	p,p'-DDT	< 0.01	ug/l	<= 0.10
*U	-	Aldrin	< 0.01	ug/l	<= 0.03
*U	-	Alpha BHC	< 0.01	ug/l	<= 0.10
*U	-	Beta BHC	< 0.01	ug/l	<= 0.10
*U	-	Gamma BHC	< 0.01	ug/l	<= 0.10
*U	-	Chlorothalonil	< 0.01	ug/l	<= 0.10
*U	-	Dichlobenil	< 0.01	ug/l	<= 0.10
*U	-	Alpha-Endosulphan	< 0.01	ug/l	<= 0.10
*U	-	Endosulphan-beta	< 0.02	ug/l	<= 0.10

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*U	-	Endrin	< 0.01	ug/l	<= 0.10
*U	-	Hexachlorobenzene	< 0.01	ug/l	<= 0.10
*U	-	Heptachlor	< 0.01	ug/l	<= 0.03
*U	-	Heptachlor Epoxide	< 0.01	ug/l	<= 0.03
*U	-	Isodrin	< 0.01	ug/l	<= 0.10
*U	-	Alachlor	< 0.01	ug/l	<= 0.03
*U	-	Heptachlor-endo-epoxide	< 0.01	ug/l	<= 0.10
*U	-	Heptachlor-exo-epoxide	< 0.01	ug/l	-
OPP					
*U	-	Malathion	< 0.01	ug/l	<= 0.10

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*U	-	Chlorfenvinphos	< 0.01	ug/l	<= 0.10
*U	-	Diflufenican	< 0.01	ug/l	<= 0.10
*U	-	Propetamphos	< 0.01	ug/l	<= 0.10
PAH EPA Suite (6 Constituents)					
*U	-	Fluoranthene	< 0.01	ug/l	-
*U	-	Benzo(b)fluoranthene	< 0.01	ug/l	-
*U	-	Benzo(k)fluoranthene	< 0.01	ug/l	-
*U	-	Benzo(a)pyrene	< 0.01	ug/l	-
*U	-	Benzo(ghi)perylene	< 0.01	ug/l	-
*U	-	Ideno (123cd) pyrene	< 0.01	ug/l	-

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*U	-	Anthracene	< 0.01	ug/l	-
*U	-	Total PAH	< 0.01	ug/l	<= 0.10
THM					
S/S1016#	21/06/2016	Chloroform	63.66	ug/l	-
S/S1016#	21/06/2016	Bromodichloromethane	22.48	ug/l	-
S/S1016#	21/06/2016	Chlorodibromomethane	4.60	ug/l	-
S/S1016#	21/06/2016	Bromoform	< 0.90	ug/l	-
S/S1016#	21/06/2016	Total THM	90.90	ug/l	<= 100.00
Triazines					
*U	-	Atrazine	< 0.01	ug/l	<= 0.10

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*U	-	Prometryn	< 0.01	ug/l	-
*U	-	Propazine	< 0.01	ug/l	<= 0.10
*U	-	Simazine	< 0.01	ug/l	<= 0.10
*U	-	Terbutryn	< 0.01	ug/l	<= 0.10
*U	-	Trietazine	< 0.01	ug/l	<= 0.10
*U	-	Fenpropimorph	< 0.01	ug/l	<= 0.10
*U	-	Pendimethalin	< 0.01	ug/l	<= 0.10
*U	-	Pirimicarb	< 0.01	ug/l	<= 0.10
Urons and Canazoles					
*U	-	Chlorotoluron	< 0.01	ug/l	<= 0.10

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Water Services
Monaghan

Report Reference: 16-18116

Report Version: 1

Site: Not Applicable

Sample Description: E284483 N308919 Donaghamoyne GWS

Date of Sampling: 13/06/2016

Sample Type: Treated

Date Sample Received: 13/06/2016

Lab Reference Number: 321812

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
*U	-	Diuron	< 0.01	ug/l	<= 0.10
*U	-	Isoproturon	< 0.01	ug/l	<= 0.10
*U	-	Linuron	< 0.01	ug/l	<= 0.10
*U	-	Monuron	< 0.01	ug/l	<= 0.10
*U	-	Methabenzthiazuron	< 0.01	ug/l	<= 0.10
*U	-	Metamitron	< 0.01	ug/l	<= 0.10
*U	-	Prothioconazole	< 0.01	ug/l	<= 0.10
*U	-	Tebuconazole	< 0.01	ug/l	<= 0.10
*U	-	Tebuthiuron	< 0.01	ug/l	<= 0.10
*U	-	Epoxiconazole	< 0.01	ug/l	<= 0.10

= INAB Accredited, U = UKAS Accredited, * = Subcontracted

Note:

PV Value is the parametric value, taken from European Communities, (Drinking Water) Regulations, 2014. S.I. No. 122 of 2014 and relates only to drinking water samples.

For queries on results, please contact us within two weeks of the report date to ensure that we can accommodate your query as samples cannot be stored indefinitely. NAC & ATC - No abnormal change and acceptable to customers. TVC - Total viable count Site D = Analysed at City Analysts Dublin. Site S = Analysed at City Analysts Shannon

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Certificate Of Analysis

Customer

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*U	-	Carbetamide	< 0.01	ug/l	<= 0.10
*U	-	Carbofuran	< 0.01	ug/l	<= 0.10
*U	-	Propiconazole	< 0.01	ug/l	<= 0.10

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