

Customer

Pascal Rooney
Monaghan County Council
Water Services
Monaghan

Certificate Of Analysis

Job Number: 16-19218
Issue Number: 1
Report Date: 17 August 2016

Site: Not Applicable
PO Number: Not Supplied
Date Samples Received: 14/07/2016

Please find attached the results for the samples received at our laboratory on 14/07/2016.

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: 17 August 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: 16-19218

Report Version: 1

Site: Not Applicable

Sample Description: 272097-335712 Glaslough/Thyholland GWS

Date of Sampling: 14/07/2016

Sample Type: Treated

Date Sample Received: 14/07/2016

Lab Reference Number: 325806

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
S/S1016#	18/07/2016	1,2-Dichloroethane	< 0.50	ug/l	<= 3.00
D/D3001#	20/07/2016	Aluminium, Total	176.90	ug/l	<= 200.00
D/D3000#	19/07/2016	Ammonia as NH4	0.026	mg/l	<= 0.300
*U	-	Antimony	< 0.33	ug/l	<= 5.00
*U	-	Arsenic	0.31	ug/l	<= 10.00
S/S#	18/07/2016	Benzene	< 0.50	ug/l	<= 1.00
D/D3001#	19/07/2016	Boron	< 50.00	ug/l	<= 1000.00
U	-	Bromate as BrO3	1.20	ug/l	<= 10.00
U	-	Metaldehyde	< 0.01	ug/l	-
D/D3001#	20/07/2016	Cadmium	0.46	ug/l	<= 5.00
	21/07/2016	Chlorine, Free Onsite	0.120	mg/l	-
D/D3000#	19/07/2016	Chloride	39.304	mg/l	<= 250.000
D/D3001#	20/07/2016	Chromium	0.94	ug/l	<= 50.00
D/D3010#	19/07/2016	Colour True	< 5.00	Hazen	NAC & ATC
D/D3011#	14/07/2016	Conductivity @ 20 °C	280.4	uS/cm @20 °C	<= 2500.0
D/D3001#	19/07/2016	Copper	3.71	ug/l	<= 2000.00
*U	-	Cyanide, Total	< 1.70	ug/l	<= 50.00
*	-	Epichlorohydrin	< 0.10	ug/l	<= 0.10

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*U	-	Acrylamide	< 0.013	ug/l	<= 0.100
D/D3015#	18/07/2016	Fluoride	< 0.1	mg/l	<= 0.9
*U	-	Glyphosate	< 0.01	ug/l	-
D/D3001#	18/07/2016	Magnesium	2.479	mg/l	-
D/D3001#	20/07/2016	Iron	< 7.20	ug/l	<= 200.00
D/D3001#	20/07/2016	Lead	3.87	ug/l	<= 10.00
D/D3001#	20/07/2016	Manganese	3.15	ug/l	<= 50.00
*U	-	Mercury	< 0.06	ug/l	<= 1.00
D/D3000#	19/07/2016	Nitrite as N	< 0.005	mg/l	-
D/D3000#	19/07/2016	Nitrate as N	< 2.000	mg/l	-
D/D3001#	20/07/2016	Nickel	1.11	ug/l	<= 20.00
D/	15/07/2016	Odour	0	N/A	-
D/	15/07/2016	Taste (Nature)	0	N/A	-
D/D1041#	14/07/2016	PH	7.46	pH Unit	6.50 - 9.50
*U	-	Selenium	< 0.16	ug/l	<= 10.00
D/D3001#	18/07/2016	Sodium	20.001	mg/l	<= 200.000
D/D3000#	15/07/2016	Sulphate	< 20.000	mg/l	<= 250.000
S/S1016#	18/07/2016	Tetrachloroethene	< 0.60	ug/l	<= 10.00

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S/S3224#	19/07/2016	Total Organic Carbon	3.000	mg/l	NAC & ATC
S/S#	18/07/2016	Trichloroethene	< 0.60	ug/l	<= 10.00
D/D3054#	20/07/2016	Turbidity	0.49	NTU	NAC & ATC
*U	-	Vinyl Chloride	< 0.50	ug/l	<= 0.10
*	-	Pesticides Total	0.00	ug/l	<= 0.50
D/D1214#	14/07/2016	Clostridium perfringens	< 1	cfu/100ml	<= 0
D/D1201#	14/07/2016	Coliforms	< 1.0	MPN/100ml	<= 0.0
D/D1201#	14/07/2016	E.coli	< 1.0	MPN/100ml	<= 0.0
D/D3200	14/07/2016	Faecal Enterococci	< 1.0	MPN/100ml	<= 0.0
D/D1208#	15/07/2016	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	-
*U	-	2,4-DB	< 0.01	ug/l	-
*U	-	2,4-DP Dichloroprop	< 0.01	ug/l	-
*U	-	Asulam	< 0.01	ug/l	-

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*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	-
*U	-	loxynil	< 0.00	ug/l	-
*U	-	MCPA	0.29	ug/l	-
*U	-	MCPB	< 0.01	ug/l	-
*U	-	MCPB (Mecoprop)	0.03	ug/l	-
*U	-	Pentachlorophenol	< 0.01	ug/l	-
*U	-	Triclopyr	0.01	ug/l	-
OCP					
*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

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*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
*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					
*	-	Cypermethrin	< 0.01	ug/l	-
*U	-	Malathion	< 0.01	ug/l	<= 0.10
*U	-	Chlorfenvinphos	< 0.01	ug/l	<= 0.10

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*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	-
*U	-	Anthracene	< 0.01	ug/l	-
*U	-	Total PAH	< 0.01	ug/l	<= 0.10
THM					
S/S1016#	18/07/2016	Chloroform	107.32	ug/l	-
S/S1016#	18/07/2016	Bromodichloromethane	19.66	ug/l	-
S/S1016#	18/07/2016	Chlorodibromomethane	2.19	ug/l	-
S/S1016#	18/07/2016	Bromoform	< 0.90	ug/l	-
S/S1016#	18/07/2016	Total THM	129.17	ug/l	<= 100.00
Triazines					

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PV Limit breached

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*U	-	Atrazine	< 0.01	ug/l	<= 0.10
*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	-	Pirimicarb	< 0.01	ug/l	<= 0.10
Urons and Canazoles					
*U	-	Chlorotoluron	< 0.01	ug/l	<= 0.10
*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

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*U	-	Epoxiconazole	< 0.03	ug/l	<= 0.10
*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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