

Customer

Pascal Rooney
Monaghan County Council
Water Services
Monaghan

Certificate Of Analysis

Job Number: 16-20080
Issue Number: 1
Report Date: 15 September 2016

Site: Drumgole GWS
PO Number: Not Supplied
Date Samples Received: 11/08/2016

Please find attached the results for the samples received at our laboratory on 11/08/2016.

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: 15 September 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: 16-20080

Report Version: 1

Site: Drumgole GWS

Sample Description: E261264 N318539 Drumgole GWS Durnin

Date of Sampling: 11/08/2016

Sample Type: Treated

Date Sample Received: 11/08/2016

Lab Reference Number: 328972

Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)
S/S1016#	17/08/2016	1,2-Dichloroethane	< 0.50	ug/l	<= 3.00
D/D3001#	15/08/2016	Aluminium, Total	< 5.00	ug/l	<= 200.00
D/D3000#	12/08/2016	Ammonia as NH4	0.035	mg/l	<= 0.300
*U	-	Antimony	< 0.33	ug/l	<= 5.00
*U	-	Arsenic	0.25	ug/l	<= 10.00
S/S#	17/08/2016	Benzene	< 0.50	ug/l	<= 1.00
D/D3001#	18/08/2016	Boron	< 50.00	ug/l	<= 1000.00
U	-	Bromate as BrO3	< 0.30	ug/l	<= 10.00
D/D3001#	15/08/2016	Cadmium	0.43	ug/l	<= 5.00
D/D3006	12/08/2016	Chlorine, Free	0.030	mg/l	-
D/D3000#	12/08/2016	Chloride	46.388	mg/l	<= 250.000
D/D3001#	15/08/2016	Chromium	2.97	ug/l	<= 50.00
D/D3010#	23/08/2016	Colour Apparent	< 5.00	Hazen	-
D/D3011#	12/08/2016	Conductivity @ 20°C	333.0	uS/cm @20°C	<= 2500.0
D/D3001#	19/08/2016	Copper	25.94	ug/l	<= 2000.00
*U	-	Cyanide, Total	< 1.70	ug/l	<= 50.00
*	-	Epichlorohydrin	< 0.10	ug/l	<= 0.10
*U	-	Acrylamide	< 0.013	ug/l	<= 0.100

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D/D3015#	18/08/2016	Fluoride	0.1	mg/l	<= 0.9
*U	-	Glyphosate	< 0.01	ug/l	-
D/D3001#	15/08/2016	Iron	9.71	ug/l	<= 200.00
D/D3001#	15/08/2016	Lead	3.41	ug/l	<= 10.00
D/D3001#	15/08/2016	Manganese	1.70	ug/l	<= 50.00
*U	-	Mercury	< 0.06	ug/l	<= 1.00
D/D3000#	12/08/2016	Nitrite as N	< 0.005	mg/l	-
D/D3000#	12/08/2016	Nitrate as N	< 2.000	mg/l	-
D/D3001#	15/08/2016	Nickel	4.02	ug/l	<= 20.00
D/	19/08/2016	Odour	0	N/A	-
D/	19/08/2016	Taste (Nature)	0	N/A	-
D/D1041#	12/08/2016	PH	7.85	pH Unit	6.50 - 9.50
*U	-	Selenium	< 0.16	ug/l	<= 10.00
D/D3001#	17/08/2016	Sodium	31.917	mg/l	<= 200.000
D/D3000#	19/08/2016	Sulphate	32.653	mg/l	<= 250.000
S/S1016#	17/08/2016	Tetrachloroethene	< 0.60	ug/l	<= 10.00
S/S3224#	18/08/2016	Total Organic Carbon	2.090	mg/l	NAC & ATC
S/S#	17/08/2016	Trichloroethene	< 0.60	ug/l	<= 10.00

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D/D3054#	23/08/2016	Turbidity	0.64	NTU	NAC & ATC
*U	-	Vinyl Chloride	< 0.50	ug/l	<= 0.10
*	-	Pesticides Total	0.04	ug/l	<= 0.50
D/D1214#	12/08/2016	Clostridium perfringens	< 1	cfu/100ml	<= 0
D/D1201#	12/08/2016	Coliforms	< 1.0	MPN/100ml	<= 0.0
D/D1201#	12/08/2016	E.coli	< 1.0	MPN/100ml	<= 0.0
D/D3200	12/08/2016	Faecal Enterococci	< 1.0	MPN/100ml	<= 0.0
D/D1208#	12/08/2016	TVC @ 22°C	< 1	cfu/ml	NAC
Acid Herbicides					
*U	-	Propyzamide	< 0.01	ug/l	<= 0.10
*U	-	2,4 D	< 0.01	ug/l	<= 0.10
*U	-	Bentazone	< 0.01	ug/l	<= 0.10
*U	-	Bromoxynil	< 0.01	ug/l	<= 0.10
*U	-	Clopyralid	< 0.01	ug/l	<= 0.10
*U	-	Dicamba	< 0.02	ug/l	<= 0.10
*U	-	Dichlorprop	< 0.01	ug/l	<= 0.10
*U	-	MCPA	< 0.01	ug/l	<= 0.10
*U	-	MCPB	< 0.01	ug/l	<= 0.10

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*U	-	Mecoprop (Total)	< 0.01	ug/l	<= 0.10
*U	-	Tricloypr	< 0.01	ug/l	<= 0.10
*	-	2,3,6 TBA	< 0.02	ug/l	-
*U	-	Benazolin	< 0.01	ug/l	<= 0.10
*U	-	Fenoprop	< 0.01	ug/l	<= 0.10
*U	-	Picloram	< 0.01	ug/l	<= 0.10
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
*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

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*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
*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	-

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*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#	17/08/2016	Chloroform	53.65	ug/l	-
S/S1016#	17/08/2016	Bromodichloromethane	20.43	ug/l	-
S/S1016#	17/08/2016	Chlorodibromomethane	5.24	ug/l	-
S/S1016#	17/08/2016	Bromoform	< 0.90	ug/l	-
S/S1016#	17/08/2016	Total THM	79.59	ug/l	<= 100.00
Triazines					
*U	-	Atrazine	< 0.01	ug/l	<= 0.10
*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

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*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
*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
*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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