



City Analysts Limited, Pigeon House Road, Ringsend, Dublin 4.

Tel: (01) 613 6003 Fax: (01) 613 6008

Email:

reports@cityanalysts.ie

www.cityanalysts.ie

Customer

Pascal Rooney Monaghan County Council Water Services Monaghan

Certificate Of Analysis

Job Number: 16-20082

Issue Number:

Report Date: 15 September 2016

Site: Oram 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: Authorised Date: 15 September 2016

Caitlin Quinn

Deputy Quality Manager

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.

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Monaghan County Council Water Services Monaghan

Site: Oram GWS

E285552 N322989 7 Am Corran,Oram Date of Sampling: 11/08/2016 Sample Description: Sample Type: Treated Date Sample Received: 11/08/2016

Lab Reference Number: 328974

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#	17/08/2016	Ammonia as NH4	0.032	mg/l	<= 0.300
*U	-	Antimony	< 0.33	ug/l	<= 5.00
*U	-	Arsenic	0.26	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	0.87	ug/l	<= 5.00
D/D3006	12/08/2016	Chlorine, Free	0.070	mg/l	-
D/D3000#	16/08/2016	Chloride	51.690	mg/l	<= 250.000
D/D3001#	15/08/2016	Chromium	2.04	ug/l	<= 50.00
D/D3010#	23/08/2016	Colour Apparent	< 5.00	Hazen	-
D/D3011#	12/08/2016	Conductivity @ 20 ℃	360.0	uS/cm @20℃	<= 2500.0
D/D3001#	19/08/2016	Copper	9.72	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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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.

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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	< 7.20	ug/l	<= 200.00
D/D3001#	15/08/2016	Lead	3.62	ug/l	<= 10.00
D/D3001#	15/08/2016	Manganese	< 0.70	ug/l	<= 50.00
*U	-	Mercury	< 0.06	ug/l	<= 1.00
D/D3000#	16/08/2016	Nitrite as N	< 0.005	mg/l	-
D/D3000#	16/08/2016	Nitrate as N	< 2.000	mg/l	-
D/D3001#	15/08/2016	Nickel	6.11	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	7.04	pH Unit	6.50 - 9.50
*U	-	Selenium	< 0.16	ug/l	<= 10.00
D/D3001#	17/08/2016	Sodium	22.763	mg/l	<= 200.000
D/D3000#	12/08/2016	Sulphate	26.758	mg/l	<= 250.000
S/S1016#	17/08/2016	Tetrachloroethene	< 0.60	ug/l	<= 10.00
S/S3224#	18/08/2016	Total Organic Carbon	3.090	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	0.25	NTU	NAC & ATC
*U	-	Vinyl Chloride	< 0.50	ug/l	<= 0.10
*	-	Pesticides Total	0.06	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℃	< 1	cfu/ml	NAC
Acid Herbicide	es				
*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	0.02	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	-	МСРВ	< 0.01	ug/l	<= 0.10

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*U	-	Mecoprop (Total)	< 0.01	ug/l	<= 0.10
*U	-	Tricloypr	0.02	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
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 Suit	e (6 Constituer	nts)			
*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	-

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Site / Method Ref.	Analysis Start Date	Parameter	Result	Units	PV Value (Drinking Water Only)		
*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	46.59	ug/l	-		
S/S1016#	17/08/2016	Bromodichloromethane	22.56	ug/l	-		
S/S1016#	17/08/2016	Chlorodibromomethane	6.63	ug/l	-		
S/S1016#	17/08/2016	Bromoform	< 0.90	ug/l	-		
S/S1016#	17/08/2016	Total THM	76.20	ug/l	<= 100.00		
Triazines	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		
*U	-	Pendimethalin	< 0.01	ug/l	<= 0.10		

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*U	-	Pirimicarb	< 0.01	ug/l	<= 0.10		
Urons and Car	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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