

Appendix 10.2

Chemical & Biological Water Quality in the Vicinity of Kilbride

Figure 1 EPA surface water monitoring points in the vicinity of Kilbride

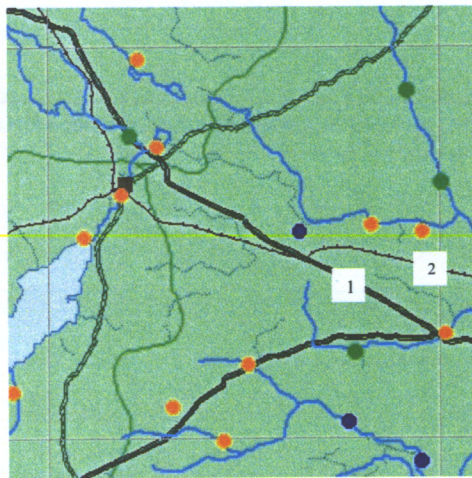


Table 1 Summary of Biological data for EPA monitoring points (from figure 1)

YEAR	1	2
	Quality	
2000	3 - 4	3
1999		
1997	3	3 - 4
1996		
1994	2 - 3	3 - 4
1993		
1990	3 - 4	1
1987		
1985		3
1984		3
1983		3
1982		
1981		3
1978		1
1976		1 - 2

Table 2 Summary of Chemical data for EPA monitoring point 1 (1998 - 2000). Station number 0060, Br SE of Cloonfad Ho

Parameter	Parameter Units	Minimum	Median	Maximum	No of Samples	Source	Source Type
Conductivity	µS/cm	571	794	846	40	Three Rivers Project	LA
Dissolved Oxygen	mg/l O ²	6.9	9.8	14.5	40	Three Rivers Project	LA
Dissolved Oxygen	% Saturation	68	91	138	40	Three Rivers Project	LA
Ortho-Phosphate	mg/l P	0.00	0.01	0.03	40	Three Rivers Project	LA
pH	pH	7.6	7.9	8.2	41	Three Rivers Project	LA
Temperature	°C	6.2	10.6	17.5	41	Three Rivers Project	LA
Total Ammonia	mg/l N	0.01	0.03	0.15	41	Three Rivers Project	LA
Un-Ionised Ammonia	mg/l NH ³	0.000	0.001	0.002	41	Three Rivers Project	LA

Note:- A value displayed in BOLD indicates that the value falls outside either an upper or lower threshold and highlights stations where there may be water quality problems.

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Table 3 Summary of Chemical data for EPA monitoring point 2 (1998 – 2000). Station number 0100, Ballivor Road, Br Kinnegad.

Parameter	Parameter Units	Minimum	Median	Maximum	No of Samples	Source	Source Type
B.O.D	mg/l O ²	1.5	1.8	3.9	5	Meath Co Co	LA
B.O.D	mg/l O ²	0.5	1.0	5.1	21	Westmeath Co Co	LA
Chloride	mg/l Cl	17	17	19	6	Meath Co Co	LA
Colour	Hazen	33	78	114	6	Meath Co Co	LA
Conductivity	µS/cm	634	748	824	5	Meath Co Co	LA
Conductivity	µS/cm	622	692	765	21	Westmeath Co Co	LA
Dissolved Oxygen	% Saturation	56	85	109	6	Meath Co Co	LA
Dissolved Oxygen	mg/l O ²	5.5	8.5	13.1	6	Meath Co Co	LA
Dissolved Oxygen	mg/l O ²	5.0	9.5	13.5	21	Westmeath Co Co	LA
Dissolved Oxygen	% Saturation	51	88	114	21	Westmeath Co Co	LA
Ortho-Phosphate	mg/l P	0.00	0.04	0.56	6	Meath Co Co	LA
Ortho-Phosphate	mg/l P	0.01	0.03	0.13	21	Westmeath Co Co	LA
Oxidised Nitrogen	mg/l N	0.2	0.4	0.6	6	Meath Co Co	LA
Oxidised Nitrogen	mg/l N	0.3	1.2	3.1	21	Westmeath Co Co	LA
pH	pH	7.6	7.8	8.0	4	Meath Co Co	LA
pH	pH	7.4	7.8	8.0	21	Westmeath Co Co	LA
Temperature	°C	5.3	12.6	17.3	6	Meath Co Co	LA
Temperature	°C	5.5	13.5	18.5	21	Westmeath Co Co	LA
Total Ammonia	mg/l N	0.01	0.03	0.44	6	Meath Co Co	LA
Total Ammonia	mg/l N	0.10	0.26	0.55	21	Westmeath Co Co	LA
Un-Ionised Ammonia	mg/l NH ³	0.000	0.000	0.001	4	Meath Co Co	LA
Un-Ionised Ammonia	mg/l NH ³	0.001	0.004	0.011	21	Westmeath Co Co	LA

Table 4 Summary of Chemical data for EPA monitoring point 2 (1995 – 1997). Station number 0100, Ballivor Road, Br Kinnegad.

Parameter	Parameter Units	Minimum	Median	Maximum	No of Samples	Source	Source Type
B.O.D	mg/l O ²	0.3	1.8	4.2	8	Meath Co Co	LA
B.O.D	mg/l O ²	0.4	1.0	3.5	21	Westmeath Co Co	LA
Chloride	mg/l Cl	15	18	23	8	Meath Co Co	LA
Colour	Hazen	66	89	1,113	8	Meath Co Co	LA
Conductivity	µS/cm	566	730	761	8	Meath Co Co	LA
Conductivity	µS/cm	670	713	740	8	Westmeath Co Co	LA
Dissolved Oxygen	% Saturation	56	86	106	8	Meath Co Co	LA
Dissolved Oxygen	mg/l O ²	5.3	10.0	13.0	8	Meath Co Co	LA
Dissolved Oxygen	mg/l O ²	5.5	10.0	14.0	21	Westmeath Co Co	LA
Dissolved Oxygen	% Saturation	54	95	141	20	Westmeath Co Co	LA
Ortho-Phosphate	mg/l P	0.02	0.05	0.17	8	Meath Co Co	LA
Ortho-Phosphate	mg/l P	0.01	0.02	0.04	21	Westmeath Co Co	LA
Oxidised Nitrogen	mg/l N	1.0	2.5	3.7	8	Meath Co Co	LA
Oxidised Nitrogen	mg/l N	0.1	1.2	3.7	21	Westmeath Co Co	LA
pH	pH	7.0	7.6	8.0	8	Meath Co Co	LA
pH	pH	7.2	7.8	8.1	21	Westmeath Co Co	LA
Temperature	°C	6.2	8.9	17.1	8	Meath Co Co	LA
Temperature	°C	5.5	12.3	20.5	20	Westmeath Co Co	LA
Total Ammonia	mg/l N	0.02	0.06	0.34	8	Meath Co Co	LA
Total Ammonia	mg/l N	0.09	0.30	0.66	21	Westmeath Co Co	LA
Un-Ionised Ammonia	mg/l NH ³	0.020	0.020	0.020	8	Meath Co Co	LA
Un-Ionised Ammonia	mg/l NH ³	0.001	0.004	0.017	20	Westmeath Co Co	LA

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