

Chapter 8 WATER

- Appendix 8.1 EPA Water Quality Data

DRAFT

HYDROMETRIC AREA 03

BLACKWATER (MONAGHAN)	03B01
CLONTIBRET STREAM	03C01
CONAWARY (LOWER)	03C02
MOUNTAIN WATER	03M01
SCOTSTOWN	03S02
SHAMBLES	03S01

River and Code: **BLACKWATER (MONAGHAN)** 03B01
 Tributary Of: OS Catchment No: 68
 OS Grid Ref of confluence: H 922 637
 Date(s) Surveyed: 31/12/1973, 31/12/1977, 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1989, 31/12/1993, 31/12/1996, 21/7/1998, 22/7/1998, 17/7/2001, 18/7/2001, 17/8/2004, 18/8/2004, 3/7/2007, 4/7/2007, 6/7/2010, 28/6/2013

Station Nos.	Biological Quality Ratings (Q Values)												
	1973	1977	1981	1983	1985	1989	1993	1996	1998	2001	2004	2007	2010
0100	4-5	4-5	4-5	3-4	3-4	-	-	-	-	-	-	-	-
0130	-	-	-	-	-	3-4	4	4	4	3	3	4	4
0200	3-4	3-4	4	3-4	3-4	-	-	-	-	-	-	-	-
0300	4	3-4	4	4	3-4	3-4	4	4	4	4	4	3-4	3-4
0400	4	3-4	4	3-4	3-4	3-4	-	-	-	-	-	-	-
0500	4	3-4	4	3-4	3-4	-	-	-	-	-	-	-	-
0510	-	-	-	-	-	3	3	3-4	3	3	3-4	3-4	3-4
0600	3	2	3	2-3	3	2-3	3	-	-	-	-	-	-
0650	-	-	-	-	-	2-3	-	2-3	3	3/0	3	3	3
0700	3	3	2-3	2-3	2-3	2-3	3	-	-	-	-	-	-
0800	3-4	3-4	3	3	3	3	3	2-3	3	3	3	3	3

Assessment: There has been no change in ecological condition in the Blackwater since it was last sampled in 2007. Only the site downstream of Scotstown Br (0130) is achieving satisfactory quality, the remaining downstream sites continue to be of generally unsatisfactory ecological condition in 2010. The complete absence of sensitive macroinvertebrates below Monaghan (0650, 0800) was indicative of considerable ecological disruption, with continued pollution by suspected sewage and industrial discharges .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 1 km u/s Scotstown*	260202	337086	28	MN
0130	1.5 km d/s Scotstown Br	261322	335999	28	MN
0200	Br in Ballinode	262918	335813	28	MN
0300	1st Br d/s Ballinode	263898	335742	28	MN
0400	Br at Crosses	265564	335744	28	MN
0500	Br nr Milltown	266388	334653	28	MN
0510	250m d/s Br nr Milltown	266519	334591	28	MN
0600	Br on Monaghan-Aughnacloy Rd	267509	335234	28	MN
0650	Faulkland Br (Upr)	269240	337125	28	MN
0700	Faulkland Br	270284	337840	28	MN
0800	Newmills Br	271921	338773	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
-------------	-----	------	-----	-----	---------	----------	------	-------	----------	-------	-------

0100	77	15	0	100	47	9	7	0	12	0	25
0130	64	50	0	100	41	3	20	1	17	0	17
0200	59	52	0	100	43	3	19	1	17	0	17
0300	57	63	0	100	49	2	16	2	17	0	14
0400	54	71	0	100	55	2	14	2	15	0	12
0500	52	123	27	73	70	3	8	2	9	0	7
0510	51	123	27	73	70	3	8	2	9	0	7
0600	50	124	27	73	71	3	8	2	9	0	7
0650	45	140	28	72	71	3	7	4	8	0	7
0700	43	142	27	73	71	3	7	4	8	0	7
0800	39	143	27	73	72	3	7	4	8	0	7

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **CLONTIBRET STREAM**

03C01

Tributary Of: 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of confluence: H 734 381

Date(s) Surveyed: 31/12/1989, 31/12/1990, 31/12/1993, 31/12/1996, 20/7/1998, 16/7/2001, 19/7/2001, 17/8/2004, 3/7/2007, 1/7/2010, 28/6/2013

Station Nos.	Biological Quality Ratings (Q Values)									
	1989	1990	1993	1996	1998	2001	2004	2007	2010	
0600	3	-	3	3	3	3	3	3	3	2-3
1100	2-3	3	-	-	-	3	3	-	-	3
1400	3	-	3-4	4	3	3	3	3	3	3

Assessment: There has been no change in the ecological condition of the Clontibret Stream for over a decade, with moderate pollution noted again in July 2010. This once great brown trout stream continues to come under pressure from suspected agricultural and sewage sources . -

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0600	Br in Clontibret	275776	328860	28	MN
1100	Br SW of Clerran	274410	331650	0	
1400	Br E of Killyneill X-Roads	273851	335733	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0600	119	5	100	0	62	0	4	0	34	0	0
1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1400	38	60	97	3	90	2	1	0	6	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **CONAWARY (LOWER)**

03C02

Tributary Of: 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

HYDROMETRIC AREA 36

AGHACASHLAUN	36A03
AGHNACLIFFE STREAM	36A06
ANNADALE STREAM	36A05
ANNALEE	36A02
AVAGHON LAKE STREAM	36A07
BAWNBOY	36B07
BLACKWATER (NEWTOWNGORE)	36B04
BLACKWATER (SWANLINBAR)	36B03
BUNNOE	36B05
# CAVAN	36C02
CONAWARY (UPPER)	36C11
CORNAVANNOGE	36C04
CULLIES	36C03
DERRADDA STREAM *	36D07
# DROMORE	36D02
DRUMANE STREAM	36D04
ERNE	36E01
FINN (MONAGHAN)	36F01
KNAPPAGH	36K01
LAHEEN STREAM	36L02
LARAGH	36L01
LEGGA STREAM	36L03
MADABAWN STREAM	36M02
MAGHERARNEY	36M01
MAGHERY	36M03
OWENSALLAGH	36O01
RAG (CAVAN)	36R01
ROO	36R02
STRADONE	36S02
SWANLINBAR	36S01
TEMPLEPORT LAKE STREAM	36T01
WATERFOOT	36W03
YELLOW (BALLINAMORE)	36Y01

* Previously reported as part of the Blackwater (Newtowngore) 36B04

River and Code: **AGHACASHLAUN** 36A03
 Tributary Of: St John's Lough OS Catchment No: 123
 OS Grid Ref of confluence: H 082 090
 Date(s) Surveyed: 31/12/1989, 31/12/1993, 9/6/1997, 13/10/1998, 28/9/2001, 14/6/2004, 20/7/2007, 7/7/2010, 2/9/2013

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1997	1998	2001	2004	2007	2010
0300	5	4-5	5	4-5	4-5	3-4*	4-5	4-5
0500	5	4-5	4-5	4-5	4-5	4-5	4	4

Assessment: The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Aghacashlaun in July 2010. Low water levels were a feature of both sites, but particularly at Aghacashlaun bridge (0500) where the weir was defunct and the bridge apron was exposed .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
-------------	------------------	------------	-------------	----------------------	-------------

0300	Br nr Lisclogher	267800	309900	0	CN
0350	Br nr Ann's Fort	265753	310346	28	CN
0500	New Grove Br	262451	310839	28	CN
0600	Br SE of Fort William	259354	312835	27	CN
0800	Br NW of Rakenny Ho	253489	311541	27	CN
0900	Ballynallon Br	250064	311589	27	CN
1000	Ballyhaise Br	245253	311608	27	CN
1150	Br nr Curraghanoe	243384	312004	27	CN
1200	0.2km u/s Butlersbridge	243406	312047	27	CN
1300	Butlersbridge (d/s side)	240817	310466	27	CN
1350	0.2km u/s Cavan R confl	240254	310101	27	CN
1400	0.2km d/s Cavan R confl	239983	310835	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0080	98	16	100	0	82	0	0	0	18	0	0
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0150	95	58	100	0	79	0	0	1	15	4	1
0200	92	76	100	0	78	0	0	1	16	4	1
0300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0350	81	168	100	0	80	1	0	1	14	4	0
0500	66	223	100	0	78	0	0	1	17	3	1
0600	64	253	100	0	79	1	0	1	16	3	0
0800	60	508	100	0	84	1	0	1	10	2	2
0900	54	700	99	1	86	1	0	0	9	2	2
1000	50	746	99	1	86	1	0	0	9	2	2
1150	50	760	99	1	85	1	0	0	9	2	2
1200	50	760	99	1	85	1	0	0	9	2	2
1300	48	772	99	1	85	1	0	0	9	2	2
1350	49	0	100	0	100	0	0	0	0	0	0
1400	49	859	96	4	86	1	0	1	8	2	2

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **AVAGHON LAKE STREAM**

36A07

Tributary Of: 36D02 DROMORE

OS Catchment No: 123

OS Grid Ref of confluence: H 660 173

Date(s) Surveyed: 31/12/1989, 31/12/1993, 3/7/1997, 23/7/1998, 24/7/1998, 30/8/2001, 12/8/2004, 9/8/2007, 16/7/2010, 10/7/2013

Station Nos.	Biological Quality Ratings (Q Values)							
	1989	1993	1997	1998	2001	2004	2007	2010
0200	-	3	3	3	3	3	-	3
0600	3	3-4	3	3	3	3	3	3

Assessment: The complete lack of pollution sensitive species continues to indicate moderate pollution at both sites on the Avaghon Lake Stream in July 2010. Unsatisfactory ecological conditions have persisted at this river for over twenty years, with agricultural causes suspected.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
-------------	------------------	------------	-------------	----------------------	-------------

0200	2nd Br d/s L Avaghon	267819	314158	28	MN
0600	Br u/s Dromore R confl	266555	317142	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	122	5	100	0	73	0	0	0	16	11	0
0600	79	0	100	0	100	0	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **BAWNBOY**

36B07

Tributary Of: 36B04 BLACKWATER (NEWTOWNGORE)

OS Catchment No: 123

OS Grid Ref of confluence: H 200 158

Date(s) Surveyed: 31/12/1982, 31/12/1989, 31/12/1993, 11/6/1997, 1/10/1998, 26/9/2001, 15/6/2004, 18/7/2007, 8/7/2010, 3/9/2013

Biological Quality Ratings (Q Values)

Station Nos.	1982	1989	1993	1997	1998	2001	2004	2007	2010
0300	-	4-5	4-5	4-5	5	4-5	4-5	4	4
0400	4	3-4	-	-	-	-	-	-	-
0500	-	3-4	4-5	4	4	4	4	4	3

Assessment: An unwelcome decline in ecological quality was apparent below Brackley Lough (0500) on the Bawnboy River in 2010, where a paucity of pollution sensitive macroinvertebrate fauna was noted .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	1st Br u/s Brackley L	219275	321692	26	CN
0400	Br in Bawnboy	221200	319100	0	CN
0500	Bellaboy Br. (u/s Bellaboy Lough)	220895	317704	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0300	60	5	0	100	0	0	29	0	43	0	28
0400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0500	56	24	0	100	15	7	9	0	42	8	19

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **BLACKWATER (NEWTOWNGORE)**

36B04

Tributary Of: Ballymagauran Lake

OS Catchment No: 123

OS Grid Ref of confluence: H 207 134

Date(s) Surveyed: 31/12/1982, 31/12/1986, 31/12/1989, 31/12/1990, 31/12/1993, 10/6/1997, 11/6/1997, 14/10/1998, 15/10/1998, 11/6/1999, 26/9/2001, 27/9/2001, 16/6/2004, 19/7/2007, 9/7/2010, 2/9/2013, 3/9/2013

Biological Quality Ratings (Q Values)

0800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0900	48	185	70	30	80	1	2	1	10	3	5	
1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: DERRADDA STREAM

36D07

Tributary Of: 36B04 BLACKWATER (NEWTOWNGORE)

OS Catchment No: 123

OS Grid Ref of confluence:

Date(s) Surveyed: 31/12/1982, 31/12/1986, 31/12/1989, 31/12/1993, 10/6/1997, 14/10/1998, 16/6/2004, 19/7/2007, 7/7/2010, 2/9/2013

Previously reported as part of the Blackwater (Newtowngore) 36B04

Station Nos.	Biological Quality Ratings (Q Values)								
	1982	1986	1989	1993	1997	1998	2004	2007	2010
0040	-	-	-	5	4-5	4-5	4	4	4
0100	5	5	4-5	4-5	5	-	4-5	3/0	4-5

Assessment: A marked improvement in ecological quality was noted at Derriniwer Br (0100) during the 2010 survey of the Derradda stream, with the site now restored to its historically highly satisfactory condition. The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at the uppermost station, Drumderg bridge (0040) .

Station No.	Station Location	National X	Grid Ref.		Discovery Series No.	County Code
			Y			
0040	Drumderg Br	212183	317447	26	CN	
0100	Br NW of Sradrinan	215513	316965	0	LM	

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	85	6	0	100	0	17	41	0	19	0	23
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: DROMORE

36D02

Tributary Of: 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of confluence: H557 122

Date(s) Surveyed: 31/12/1971, 31/12/1977, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1986, 31/12/1989, 31/12/1990, 31/12/1993, 2/7/1997, 3/7/1997, 31/12/1997, 4/7/1997, 15/10/1998, 23/7/1998, 29/8/2001, 30/8/2001, 11/8/2004, 12/8/2004, 10/7/2007, 19/9/2007, 20/9/2007, 9/7/2007, 9/8/2007, 10/8/2010, 12/7/2010, 8/7/201

Biological Quality Ratings (Q Values)

Station Nos.	1971	1977	1980	1982	1984	1986	1989	1990	1993	1997	1998	2001	2004	2007	2010
--------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

0015	-	-	-	-	-	-	-	-	4	4-5	4	4	4-5	4	4
0016	-	-	-	-	-	-	-	-	-	1	4	-	-	-	-
0036	-	-	-	-	-	-	3-4	-	4	3-4	3-4	3-4	3-4	4	4
0075	-	-	-	-	-	-	-	-	-	3	3	3	4	3-4	3-4
0090	-	-	-	-	-	-	1	3	3-4	3-4	3-4	3	3-4	-	3-4
0100	5	3	3-4	3	2	3-4	2	3	-	-	-	2-3	-	-	-
0150	-	-	2	2	2	3	2	3	3	3-4	3-4	-	3	3-4	3-4
0200	4	4	3-4	3-4	-	3-4	2-3	-	3	2-3	3	3	3-4	-	3
0300	4	2	3-4	3-4	3-4	3-4	3	-	3-4	3	3	3	3	3	3
0400	-	4	3-4	3-4	3-4	3-4	3-4	-	3	-	-	-	-	-	-
0500	-	-	4	4	3-4	3	3	-	3	3	3	3-4	3-4	3	3
0600	-	-	4	3-4	3-4	3	3	-	-	-	-	-	-	-	-
0700	4-5	2-3	3	4	3	3-4	3	-	3	3-4	3	3	3	3	3
0800	-	-	4	4-5	4	4	-	-	-	-	-	-	-	-	-
0900	4-5	4-5	4-5	4-5	4	4	3-4	-	4	4	4-5	4	4	3-4	3-4
0910	-	-	-	-	1	4	3-4	-	-	-	3	-	-	-	-

Assessment: Once again the Dromore remains in generally unsatisfactory ecological condition in 2010. Only the two uppermost sites (0015 and 0036) of the ten stations surveyed were in a satisfactory ecological condition. Signs of nutrient enrichment such as dominance of tolerant macroinvertebrate species, paucity of pollution sensitive macroinvertebrates, excessive weed and/or algal growth, depressed DO and excessive siltation were apparent at all sites surveyed largely due to the effects of sewage and agriculture on the lakes along the rivers course, and the further effects of these lake outflows on the biota of the river itself .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015	Br NE of Corryloan L (RHS)	278600	320800	28	MN
0016	Br NE of Corryloan L (LHS)	278600	320800	28	MN
0036	Br d/s Ballintra Br	274400	320100	28	MN
0075	Br SW of Bartley's Grove	269096	324195	28	MN
0090	Br SE of Edenaferkin	269573	322131	28	MN
0100	Br NE of Derryvalley Ho	269716	322178	28	MN
0150	Br in Ballybay	271686	320500	28	MN
0200	Br d/s L Major	271940	320165	28	MN
0300	Balladian Br	269589	319748	28	MN
0400	Ballycoghill Br	265980	317553	28	MN
0500	Ballynascarva Br	264655	316409	28	MN
0600	New Br N of Clementstown	259750	315155	27	CN
0700	Br W of Clementstown	259132	314766	27	CN
0800	Br N of Ashfield Lodge	257500	313800	27	CN
0900	Killycreeny Br (Mid)	255694	313094	27	CN
0910	Killycreeny Bridge (RHS)	255714	313118	27	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015	98	7	100	0	95	0	0	0	5	0	0
0016	98	7	100	0	95	0	0	0	5	0	0
0036	80	45	100	0	94	0	2	0	4	0	0
0075	98	20	100	0	99	1	0	0	0	0	0
0090	88	30	100	0	98	1	0	0	1	0	0
0100	89	29	100	0	98	1	0	0	1	0	0
0150	79	40	100	0	98	1	0	0	1	0	0
0200	79	50	100	0	93	1	2	0	3	0	0
0300	78	118	100	0	96	1	1	1	2	0	0
0400	78	133	100	0	96	1	1	0	1	1	0
0500	80	166	100	0	95	1	1	0	2	1	0
0600	80	205	100	0	90	1	0	1	2	2	4
0700	76	216	100	0	90	1	0	1	3	2	4

31/12/1993, 7/7/1997, 8/7/1997, 15/10/1998, 16/10/1998, 17/8/1998, 22/7/1998, 28/9/1998, 28/8/2001, 10/8/2004, 9/8/2004, 17/7/2007, 5/7/2007, 8/8/2007, 15/7/2010, 10/7/2013, 4/7/2013, 8/7/2013

Biological Quality Ratings (Q Values)

Station Nos.	1971	1973	1977	1980	1982	1984	1989	1993	1997	1998	2001	2004	2007	2010
0010	-	-	-	-	-	-	3-4	4-5	4-5	4	3	3-4*	4	4
0080	-	-	-	-	-	-	3	4	3	4	4	4	-	3-4
0100	5	5	4-5	4	4-5	4-5	3-4	4	3-4	4	3-4	3-4	3	3-4
0200	5	4-5	4-5	4	4	4	3-4	4	3	3-4	3	4	3-4	3-4
0400	-	-	3-4	3-4	3-4	3-4	3-4	3	3-4	3-4	3	4	-	3-4
0500	3-4	3	1	3	3	3	3	3	3	3	3	3-4	3-4	3-4
0600	-	-	-	-	3	3	3	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment: The macroinvertebrate fauna continues to indicate generally unsatisfactory ecological conditions on the Finn (Monaghan) in 2010. Only the uppermost Station 0010 (SW of Shanroe) showed satisfactory standards out of the six sites sampled. Low DO (dissolved oxygen) levels were recorded below the Magherarney confluence (station 0400 - 87%) and again below Clones (station 0500 -75%) .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0010	Br at Mill NW of Kilcreen	256057	335418	27	MN
0080	E of Aghafin Lough	252797	329862	27	MN
0100	Stone Br	254401	328407	27	MN
0200	Annamakiff Br	254563	326483	27	MN
0400	Scarvy Br	251806	324610	27	MN
0500	Cumber Br	249939	323331	27	MN
0600	Annie's Br	0	0	0	MN
1000	Wattle Br.	242572	320237	27	

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0010	80	1	0	100	100	0	0	0	0	0	0
0080	56	1	0	100	94	6	0	0	0	0	0
0100	56	5	0	100	99	1	0	0	1	0	0
0200	48	79	26	74	95	1	1	0	0	0	2
0400	47	103	43	57	97	1	1	0	0	0	1
0500	47	118	41	59	96	1	1	1	0	0	1
0600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1000	N/A	0	0	0	0	0	0	0	0	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KNAPPAGH**

36K01

Tributary Of: 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of confluence: H 678 099

Date(s) Surveyed: 31/12/1977, 31/12/1981, 31/12/1985, 31/12/1989, 31/12/1993, 26/6/1997, 3/7/1997, 24/7/1998, 30/9/1998, 30/8/2001, 31/8/2001, 28/6/2004, 18/9/2007, 20/9/2007, 2/7/2010, 22/7/2013

Biological Quality Ratings (Q Values)

Station Nos.	1977	1981	1985	1989	1993	1997	1998	2001	2004	2007	2010	2013
--------------	------	------	------	------	------	------	------	------	------	------	------	------

0200	-	4	3-4	3-4	3	3	3	3*	4	3	3-4	3
0400	4	4	3-4	3	3-4	3	3	3-4*	3-4*	-	3	3
0700	-	4-5	4	3	3-4	3-4	3	3-4*	4	3-4	3-4	4

Assessment: The upper reaches of the Knappagh (0200 and 0400) were found to be in unsatisfactory ecological condition in July 2013, a situation virtually unchanged in over twenty years of surveying this Annalee River tributary. The influence of upstream lakes, particularly as stores of Phosphorus, coupled with agricultural and commercial activities in the catchment, are contributing to the eutrophication of the Knappagh River. In particular, a lack of pollution sensitive macroinvertebrate species, excessive weed and algal growth, excessive siltation and low dissolved oxygen (<70 % saturation) characterise the upstream sites (0200 at the bridge upstream of Bellatrain Lough; and 0400 at Lackan Bridge). Further downstream at station 0700 (just upstream of the Annalee river confluence) a welcome return to good ecological condition was recorded during the current survey .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0200	Br u/s Bellatrain L	274468	310701	28	MN
0400	Lackan Br	270618	311430	28	MN
0700	Br u/s Annalee R confl	267974	310045	28	CN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	106	44	100	0	86	0	0	1	9	4	0
0400	108	66	100	0	81	2	0	1	12	4	0
0700	86	79	100	0	82	1	0	1	12	4	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **LAHEEN STREAM**

36L02

Tributary Of: 36C03 CULLIES

OS Catchment No: 123

OS Grid Ref of confluence: H 266 075

Date(s) Surveyed: 31/12/1989, 31/12/1993, 1/7/1997, 12/10/1998, 13/10/1998, 25/9/2001, 17/6/2004, 14/8/2007, 2/10/2007, 23/8/2007, 17/8/2010, 11/9/2013, 12/9/2013

Biological Quality Ratings (Q Values)

Station Nos.	1989	1993	1997	1998	2001	2004	2007	2010
0300	-	4	4	4	3*	4-5	4	4
0600	-	3-4	3-4	3	3*	-	3-4	3-4
0800	3	3-4	3-4	3	3*	3-4	3-4	3-4

Assessment: The upper reaches of the Laheen Stream (0300) remained in a satisfactory ecological condition in 2010, while the downstream quality (0600 & 0800) remains unsatisfactory once again. Signs of nutrient enrichment such as dominance of tolerant macroinvertebrate species, paucity of pollution sensitive macroinvertebrates, excessive weed and/or algal growth, excessive siltation and depressed DO were apparent at both sites, indicating eutrophication .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0300	Br W of Aghavilla	221091	305820	34	LM
0600	Br SW of Drummercross	224215	307477	34	LM
0800	Br u/s Cullies R confl	226482	307687	34	LM

HYDROMETRIC AREA 06

BALLYMASCANLAN	06B02
BIG (LOUTH)	06B01
CARRICKASLANE LOUGH STREAM *	06C04
CASTLETOWN	06C01
COUNTY WATER	06C03
CULLY WATER	06C02
DEE	06D01
DRUMSALLAGH STREAM *	06D07
FANE	06F01
FLURRY	06F02
GENTLE OWEN'S LAKE STREAM *	06G04
GLYDE	06G02
KILCURRY	06K02
KILLARY WATER	06K01
KILMAINHAM *	06K04
MAGHERACLOONE STREAM *	06M01
PROULES	06P01
TERMONFECKIN	06T01
WHITE (LOUTH)	06W01

* Formerly Carrickaslane Lough Branch of Fane River

* Formerly: 06G02 Glyde Drumsallagh Branch

* Formerly: 06F01 Fane East Branch

* Formerly 06D01:Dee Kilmainham Wood Branch

* Formerly Magheracloone Branch of the Glyde River 06G02

River and Code: **BALLY MASCANLAN**

06B02

Tributary Of: 06F02 FLURRY

OS Catchment No: 91

OS Grid Ref of confluence: J 081 100

Date(s) Surveyed: 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 5/7/2000, 11/8/2003, 10/7/2006, 24/10/2007, 7/10/2008, 5/10/2009, 16/9/2010, 6/9/2012

Station Nos.	Biological Quality Ratings (Q Values)											
	1990	1991	1994	1997	2000	2003	2006	2007	2008	2009	2010	2012
0100	2-3	-	3/0	4	3/0	2/0	2/0	2/0	2-3/0	3-4	3-4	3-4
0200	-	-	-	-	-	-	-	-	3	-	-	-
0300	4-5	-	-	-	3	-	-	-	-	-	-	-
0400	-	-	-	-	-	-	-	-	-	-	-	-
0450	-	-	-	-	-	-	-	-	-	-	-	-
0500	1-2	1	3	4	3	-	-	-	-	-	-	-

Assessment: The improvement to moderate ecological condition recorded at Jonesborough Bridge in 2009 and 2010 was maintained in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Jonesborough Br	306465	314446	36	LH
0200	Br nr Carrickaneena House	306700	313600	36	
0300	New Br	307128	311816	29	LH
0400	Br d/s New Br	0	0	0	
0450	U/s Ballymascanlan Br	0	0	0	
0500	Ballymascanlan Br	308085	310187	29	LH

area.

River and Code: **CULLY WATER**

06C02

Tributary Of: 06K02 KILCURRY

OS Catchment No: 92

OS Grid Ref of confluence: J 025 109

Date(s) Surveyed: 31/12/1978, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 6/7/2000, 12/8/2003, 11/7/2006, 24/6/2009, 6/9/2012

Station Nos.	Biological Quality Ratings (Q Values)										
	1978	1982	1986	1990	1994	1997	2000	2003	2006	2009	2012
0100	4-5	5	4-5	4-5	4-5	4-5	4-5	4	4	-	-
0200	4-5	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4	4	4

Assessment: The macroinvertebrate fauna indicated continuing good ecological conditions on the Cully Water just upstream of the Kilcurry River confluence in September 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dungooly Br	300322	314006	36	LH
0200	Br u/s Kilcurry R confl	302435	310849	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	30	0	100	0	100	0	0	0	0	0	0
0200	10	6	66	34	47	0	0	0	53	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **DEE**

06D01

Tributary Of: 06G02 GLYDE

OS Catchment No: 96

OS Grid Ref of confluence: O 086 935

Date(s) Surveyed: 31/12/1974, 31/12/1977, 31/12/1978, 31/12/1980, 31/12/1983, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 20/7/2000, 21/7/2000, 19/8/2003, 20/8/2003, 21/8/2003, 18/7/2006, 25/7/2006, 25/9/2006, 1/10/2009, 30/9/2009, 4/10/2011, 31/8/2012, 8/9/2012

Station Nos.	Biological Quality Ratings (Q Values)														
	1974	1977	1978	1980	1983	1986	1990	1994	1997	2000	2003	2006	2009	2011	2012
0015a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0016	-	-	-	-	-	-	4-5	4	4	3-4	4	3-4	3-4	-	3-4
0025	-	-	-	-	-	-	5	4	4	4	4	4	-	-	-
0030	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
0035	-	-	-	-	-	-	4-5	3	3	3-4	3	3	3-4	-	3
0054a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0149a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0150	-	-	-	3-4	4	-	-	-	-	-	-	-	-	-	3
0200	3-4	-	2-3	3-4	4	4	4	3	3	3-4	3-4	3-4	3	-	3-4
0300	4	-	3	4	4	3-4	4-5	-	-	-	-	-	-	-	-
0360	-	-	-	-	-	-	4	3-4	3-4	4	4	4	4	-	4

0400	-	-	-	4	4	3-4	4-5	-	-	-	-	-	-	-	-
0450	-	-	-	-	-	-	-	3-4	3-4	3-4	3-4	4	-	-	-
0500	4-5	-	3	4	4	3-4	4-5	-	-	-	-	-	-	-	-
0600	4	3-4	4	4	4-5	3-4	4-5	3-4	3	4	4	4	4	4	-
0670	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
0680	-	-	-	-	4	4	4	3-4	3-4	4	3-4	-	-	-	3
0690	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0700	2	3-4	3-4	3	3-4	3	4	-	-	-	-	-	-	-	-
0710	-	-	-	-	-	-	4	3-4	3-4	3-4	3	3	3	-	-
0790	-	-	-	-	-	-	-	-	-	-	-	3-4	-	-	-
0800	4	3-4	3-4	4	4	3-4	4-5	3	3	3-4	3	-	-	-	-
0900	-	-	-	-	-	3-4	-	-	-	-	-	-	-	-	-
0910	-	-	-	4	4	3-4	4	-	-	-	-	-	-	-	-
1000	4	3-4	3	3-4	3-4	3-4	3-4	3	3	3-4	3	3-4	3-4	-	-
1100	-	-	-	4	4	4	3-4	-	-	-	-	-	-	-	3

Assessment: The macroinvertebrate fauna indicated unsatisfactory conditions at all sites assessed on the River Dee in September 2012, with the exception of Rockfield Bridge (0360) where satisfactory ecological condition was recorded .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0015a	Ervy Lough Branch	0	0	0	
0016	Br u/s Ervy Lough	276240	294830	35	CN
0025	Br to N. of Ervy X-Rds	277250	292710	35	MH
0030	Br u/s Newcastle L	278698	291501	35	MH
0035	Tom's Br	279580	289130	35	MH
0054a	Kilmainham Wood Branch See Kilmainham R 06K04	0	0	0	
0149a	Main Channel	0	0	0	
0150	Wooden Br W of Nobber Br	281907	286754	35	MH
0200	Deegvee Br	283040	285760	35	MH
0300	Ballanagirrisk Br	284466	284456	35	MH
0360	Rockfield Br	287143	285571	35	MH
0400	Yellow Ford Br	288539	286830	35	MH
0450	Hem Br	289630	288065	35	MH
0500	Bogie Br	291066	289447	35	MH
0600	Burley Br	292551	289685	36	MH
0670	1km u/s Ardee Br	295281	290330	36	LH
0680	Dawson's Br	296593	290520	36	LH
0690	U/s Sewage Trtmt Wks	0	0	0	
0700	1.5 km d/s Ardee	0	0	0	
0710	150 m d/s Old Rly Br (LHS)	297279	291051	36	LH
0790	New Br u/s Drumgoolestown Br. (d/s) .	302862	291051	36	LH
0800	Drumgoolestown Br	303066	290878	36	LH
0900	Charleville Weir	0	0	0	
0910	Cappoge Br	305064	290619	36	LH
1000	Br at Drumcar	306596	291170	36	LH
1100	At Williamstown House	307391	292195	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0015a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0016	129	10	100	0	98	0	0	0	0	0	2
0025	-99	14	100	0	99	0	0	0	0	0	1
0030	60	19	100	0	99	0	0	0	0	0	1
0035	51	31	67	33	98	0	0	0	1	0	1
0054a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0149a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0150	48	70	70	30	97	0	0	0	2	1	0

0200	47	6	0	100	77	0	0	2	21	0	0
0300	43	95	52	48	95	0	0	1	4	0	0
0360	39	110	50	50	92	0	0	0	6	0	0
0400	35	157	64	36	89	0	0	0	10	0	0
0450	31	170	60	40	89	0	0	0	10	0	0
0500	28	173	59	41	89	0	0	0	10	0	0
0600	26	176	58	42	89	0	0	0	10	0	0
0670	23	277	53	46	81	0	0	0	17	0	1
0680	23	286	54	46	79	0	0	1	18	0	1
0690	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0710	22	287	54	46	79	0	0	1	19	0	1
0790	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0800	13	305	56	44	76	0	0	1	22	0	1
0900	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0910	10	317	58	42	75	0	0	1	22	0	1
1000	10	376	65	35	72	1	0	1	25	0	1
1100	8	386	66	34	71	1	0	2	26	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **DRUMSALLAGH STREAM**

06D07

Tributary Of: 06G02 GLYDE

OS Catchment No: 95

OS Grid Ref of confluence: N 803 981

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 19/7/2000, 19/8/2003, 14/7/2006, 30/9/2009, 2/9/2012, 31/8/2012, 29/7/2013

Formerly: 06G02 Glyde Drumsallagh Branch

Station Nos.	Biological Quality Ratings (Q Values)								
	1990	1994	1997	2000	2003	2006	2009	2012	
0056	5	3	4-5	4-5	4-5	4	4	4	
0066	4-5	4-5	4-5	4	4	-	-	-	
0070	4-5	4-5	4-5	4-5	4-5	4	4-5	3-4	

Assessment: The macroinvertebrate fauna indicated continuing good ecological condition at the upper site west of Drumsallagh (0056). However there has been a very disappointing deterioration in ecological status at County Br (0070) from high in 2009 to moderate in September 2012. Cattle access is an issue at this location

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0056	Br W of Drumsallagh	276200	297520	35	CN
0066	Murphy's Br	278130	297220	35	CN
0070	County Br (u/s Magheraclone Branch)	280160	298260	35	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0056	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

0066	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0070	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **FANE**

06F01

Tributary Of: DUNDALK BAY

OS Catchment No: 94

OS Grid Ref of confluence: J 064 018

Date(s) Surveyed: 31/12/1974, 31/12/1976, 31/12/1980, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 17/7/2000, 18/7/2000, 6/7/2000, 7/7/2000, 13/8/2003, 14/8/2003, 11/7/2006, 12/7/2006, 13/7/2006, 24/10/2007, 23/9/2009, 25/9/2009, 4/9/2012, 6/9/2012, 8/9/2012

Biological Quality Ratings (Q Values)

Station Nos.	1974	1976	1980	1982	1986	1990	1994	1997	2000	2003	2006	2007	2009	2012
0039a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0080	-	-	-	-	-	4	-	-	-	-	-	-	-	-
0114a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0134a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0155	-	-	-	-	-	-	2-3	2-3	2-3	2-3	2/0	3	3	3
0180	-	-	-	-	-	-	3	3	3	3	3	-	-	-
0200	-	3-4	4	3-4	3-4	3-4	3	3-4	3	3	3-4	-	3-4	3
0299a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0300	-	3-4	3-4	3-4	3-4	3-4	3	3	3	3	3	-	-	-
0400	-	-	3	3	3	3-4	3	3	3-4	3	3	-	3	3
0500	-	5	5	4-5	4	4-5	4	4	4	4	3-4	-	-	-
0600	-	-	5	4-5	4-5	-	-	-	-	-	-	-	-	-
0650	-	-	-	-	-	5	3-4	4	4	3-4	3-4	-	4	4
0700	5	5	5	4	4	5	4	4-5	4-5	4	3-4	-	-	-
0800	-	-	4	4	4	4	-	-	-	-	-	-	-	-
0900	5	5	4	4-5	-	4	3-4	4-5	4-5	4	4	-	4	4
1000	-	-	4-5	4-5	-	-	-	-	-	-	-	-	-	-

Assessment: The Fane River continued to be in generally unsatisfactory ecological condition in its upper section in September 2012, with poor ecological condition recorded at South Bridge at Dunfelimy (0150), Derrycreevy Br. (0200) and Ballynacarry Br (0400). The lower section of the river retained its good ecological condition at Inniskeen Br (0650) and at Stephenstown Br (0900) . .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0039a	East Branch (See Gentle Owen's Stream 06G04)	0	0	0	
0080	Br u/s Muckno Mill Lough	284723	322660	0	
0114a	Carrickaslane Lough Branch	0	0	0	
0134a	West Branch	0	0	0	
0155	South Br Dunfelimy	276630	324080	28	MN
0180	2nd Br u/s Laragh L (Main Rd)	279200	322360	28	MN
0200	Derrycreevy Br	282770	320680	28	MN
0299a	Main Channel	0	0	0	
0300	Clarebane Br	287357	316783	28	MN
0400	Ballynacarry Br	287460	314120	28	MN
0500	Magoney Br	290853	309669	35	MN
0600	Br at Moyle's Mill	291871	307634	35	MN
0650	Innishkeen Br	293175	307040	36	MN
0700	Castlerring Br	296636	303711	36	LH
0800	Knock Br	298812	303159	36	LH

River and Code: **GLYDE**

06G02

Tributary Of:

OS Catchment No: 95

OS Grid Ref of confluence: O 090 940

Date(s) Surveyed: 31/12/1977, 31/12/1978, 31/12/1979, 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1990, 31/12/1994, 31/12/1997, 18/7/2000, 19/7/2000, 14/8/2003, 15/8/2003, 18/8/2003, 17/7/2006, 25/9/2009, 30/9/2009, 5/10/2009, 2/9/2012, 6/9/2012, 8/9/2012

Station Nos.	Biological Quality Ratings (Q Values)													
	1977	1978	1979	1981	1983	1985	1990	1994	1997	2000	2003	2006	2009	2012
0049a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0073a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0099a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0100	-	3	-	4-5	4	5	4-5	4-5	4-5	4-5	4	4	4	3-4
0200	-	4-5	-	4	4-5	4-5	4-5	-	-	-	-	-	-	-
0300	-	4	-	-	-	-	-	-	-	-	-	-	-	-
0400	-	4	-	4	4	3-4	4	4	3	4	4	4-5	4-5	4
0500	4	-	3-4	4	3-4	3-4	3	3	-	4	4	-	4	4
0600	4-5	-	4	4	5	4-5	4-5	4	3-4	4	4	3-4	4	4
0700	4	-	-	-	4	4	4	3-4	3-4	3-4	3-4	-	-	3-4
0800	-	-	-	4	4	3-4	-	-	-	-	-	-	-	-
0900	-	-	4	4	4-5	4-5	5	3-4	3	4	4-5	4	4	4
1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1001	4-5	-	4	4	4	3-4	4	-	-	-	-	-	-	-
1002	-	-	-	1	1	2-3	4	3	4	4	4-5	4	-	-
1100	-	-	-	-	-	3	-	-	-	-	-	-	-	-
1200	3-4	-	3-4	3-4	4	3	3-4	3-4	3-4	3-4	3-4	3-4	4	3-4
1230	-	-	-	-	-	-	-	-	-	-	-	-	-	3-4
1240	-	-	-	-	-	-	3	-	-	-	-	-	-	-
1270	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1300	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment: Macroinvertebrate fauna indicated a general overall deterioration in the condition of the Glyde since 2009. Despite satisfactory ecological conditions recorded at all sites assessed in 2009, currently only the middle reaches of the river (Lagan Br (0400) , Aclint Br (0500) and Br W Mullacrew (0600)) merited good ecological condition in 2012. Disappointingly, the other five sites were downgraded to moderate ecological condition . .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0049a	Drumsallagh Branch	0	0	0	
0073a	Magheracloone Branch	0	0	0	
0099a	Main Channel	0	0	0	
0100	Cormey Br	280537	297971	35	MN
0200	Tobermannan Br	282535	296614	35	LH
0300	Ballyhoe Br	285716	295404	35	LH
0400	Lagan Br	287438	296456	35	LH
0500	Aclint Br	289375	298093	35	LH
0600	Br W of Mullacrew	294294	299538	36	LH
0700	Tallanstown Br	295497	297731	36	LH
0800	0.5km d/s Tallanstown Br	295824	297384	36	LH
0900	Mapastown Br	298637	295436	36	LH
1000	Mansfieldstown Br (Mid)	302350	295250	36	LH
1001	Mansfieldstown Br (LHS)	302337	295243	36	LH
1002	Mansfieldstown Br (RHS)	302322	295237	36	LH
1100	200m u/s Castlebellingham Br	305772	294961	36	LH
1200	Castlebellingham Br	305976	295149	36	LH
1230	200 m d/s Castlebellingham Br	306076	295303	36	LH

1240	1.5km d/s Castlebellingham Br	306868	294568	36	LH
1270	Weir u/s Annagassan	0	0	0	
1300	Annagassan Br	308029	293826	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0049a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0073a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0099a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0100	34	63	73	27	86	3	0	4	6	0	2
0200	30	75	61	39	85	4	0	3	6	0	1
0300	28	119	50	50	85	3	0	2	8	0	1
0400	26	134	49	51	84	3	0	2	9	0	2
0500	24	149	47	53	84	3	0	2	10	0	1
0600	21	268	54	46	83	2	0	2	12	0	1
0700	18	276	55	45	81	2	0	2	14	0	1
0800	17	276	55	45	81	2	0	2	14	0	1
0900	7	318	61	39	73	2	0	2	22	0	1
1000	5	346	64	36	69	2	0	2	26	0	1
1001	5	346	64	36	69	2	0	2	26	0	1
1002	5	346	64	36	69	2	0	2	26	0	1
1100	2	357	65	35	68	2	0	2	28	0	1
1200	2	357	65	35	68	2	0	2	28	0	1
1230	3	357	65	35	68	2	0	2	28	0	1
1240	2	358	65	35	68	2	0	2	28	0	1
1270	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1300	1	360	66	34	67	2	0	2	28	0	1

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KILCURRY**

06K02

Tributary Of: 06C01 CASTLETOWN

OS Catchment No: 92

OS Grid Ref of confluence: J 028 098

Date(s) Surveyed: 31/12/1978, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 6/7/2000, 12/8/2003, 11/7/2006, 24/6/2009, 6/9/2012

Station Nos.	Biological Quality Ratings (Q Values)										
	1978	1982	1986	1990	1994	1997	2000	2003	2006	2009	2012
0100	-	4-5	4-5	4	3-4	-	-	-	-	-	-
0200	4	4-5	4-5	4-5	3	4-5	4	4	4	4	4

Assessment: Macroinvertebrate fauna indicated continuing good ecological conditions in the Kilcurry River in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br nr Lurgankeel	302729	311975	29	LH
0200	Br at Mill nr Falmore Hall	302451	310875	29	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	24	1	92	8	46	0	0	0	54	0	0
0200	10	2	80	20	45	0	0	0	55	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KILLARY WATER**

06K01

Tributary Of: 06D01 DEE

OS Catchment No: 96

OS Grid Ref of confluence: N 884 760

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 20/7/2000, 20/8/2003, 27/7/2006, 1/10/2009, 31/8/2012

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009	2012
0100	3	3	3-4	3-4	3-4	3-4	-	-
0300	3-4	-	-	-	-	-	-	-
0400	3-4	-	-	-	-	-	-	-
0500	3-4	3-4	3-4	3-4	4	3-4	3	3

Assessment: Ecological condition remains poor and unchanged upstream of the Dee river confluence (0500) in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Killary Br Upper	287865	281331	35	MH
0300	Killary Br Lower	287963	282920	35	MH
0400	Mitchelstown Br	287761	284351	35	MH
0500	SW Br u/s Dee R confl	288601	285461	35	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	62	25	100	0	75	0	0	0	25	0	0
0300	52	28	100	0	74	0	0	0	26	0	0
0400	43	34	100	0	76	0	0	0	24	0	0
0500	38	36	100	0	77	0	0	0	23	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **KILMAINHAM**

06K04

Tributary Of: 06D01 DEE

OS Catchment No: 96

OS Grid Ref of confluence: N 792 885

Date(s) Surveyed: 31/12/1971, 31/12/1974, 31/12/1978, 31/12/1980, 31/12/1983, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 20/7/2000, 19/8/2003, 18/7/2006, 30/9/2009, 31/8/2012

Formerly 06D01:Dee Kilmainham Wood Branch

Biological Quality Ratings (Q Values)

Station Nos.	1971	1974	1978	1980	1983	1986	1990	1994	1997	2000	2003	2006	2009	2012
0055	-	-	-	-	-	-	-	4	3-4	4	4	4	4	3-4
0075	-	-	-	-	-	-	-	3	4	4	4	-	-	-
0100	4-5	5	4-5	4	4-5	4-5	4-5	4-5	4	4	4	4	4	3-4

Assessment: A disappointing decline in ecological condition from good to moderate was recorded at both sites assessed on the Kilmainham in September 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0055	Breaky Br	274500	291870	35	MH
0075	Br N of Kilflannan (at T junction)	275880	290540	35	MH
0100	Br u/s Whitewood L	278950	289180	35	MH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0055	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0075	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **MAGHERACLOONE STREAM**

06M01

Tributary Of: 06G02 GLYDE

OS Catchment No: 95

OS Grid Ref of confluence: N 803 981

Date(s) Surveyed: 31/12/1990, 31/12/1994, 31/12/1997, 19/7/2000, 18/8/2003, 14/7/2006, 30/9/2009, 2/9/2012

Formerly Magheraclone Branch of the Glyde River 06G02

Biological Quality Ratings (Q Values)

Station Nos.	1990	1994	1997	2000	2003	2006	2009	2012
0082	5	3-4	4-5	-	-	-	-	-
0096	4-5	4-5	4-5	4-5	4	4	4	4

Assessment: Macroinvertebrate fauna indicate continuing good ecological condition in the Magheraclone Stream in 2012 .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0082	Br E of Bench Mark 484'	277450	300010	35	MN
0096	Br N of Lisnakeeny	279550	299580	35	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0082	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

0096 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **PROULES**

06P01

Tributary Of: 06G02 GLYDE

OS Catchment No: 95

OS Grid Ref of confluence: N 912 993

Date(s) Surveyed: 31/12/1974, 31/12/1976, 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 18/7/2000, 18/8/2003, 13/7/2006, 29/7/2009, 30/7/2009, 2/9/2012

Biological Quality Ratings (Q Values)

Station Nos.	1974	1976	1978	1980	1982	1984	1990	1991	1994	1997	2000	2003	2006	2009	2012
0100	-	5	5	5	4	4-5	5	-	4	4-5	-	-	-	-	4
0110	-	-	-	-	-	-	3	-	-	-	4-5	4-5	4	4	4
0200	1	1-2	2-3	3	4	4	4	-	-	-	-	-	-	-	-
0300	1	1	3	1	3	3-4	1-2	1-2	2-3	2	2-3	2-3	2-3	n/s	2-3
0400	2	2-3	2-3	2	3-4	3	2	2	2	2	2-3	3	-	-	-
0500	3	3	4	4	4	4-5	3-4	-	-	-	-	-	-	-	3-4
0600	-	4	3-4	4	4	4	3-4	-	3	3	3-4	3	3-4	3-4	3-4

Assessment: The Proules River had good ecological condition at both sites assessed upstream of Carrickmacross in 2012. Downstream of Carrickmacross (0900) the macroinvertebrate fauna indicated poor ecological condition, unchanged since last assessed in 2006. In the lower section of the river, moderate condition was recorded at Ballymackey Br (0500) and at the bridge near Killanny (0600) .

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Dry Br	283385	304013	35	MN
0110	500m d/s Dry Br (d/s St 0100)	283385	304013	35	MN
0200	Ardee Rd Br Carrickmacross	284120	303395	35	MN
0300	Just u/s Lough Naglack	284961	302669	35	MN
0400	Broken Br	285669	302902	35	MN
0500	Ballymackney Br	287803	301952	35	MN
0600	Br at Killanny	289348	301043	35	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	44	8	52	48	85	0	0	0	15	0	0
0110	44	8	52	48	85	0	0	0	15	0	0
0200	34	10	43	57	77	0	0	8	15	0	0
0300	26	17	25	75	75	7	0	9	9	0	0
0400	30	18	24	76	75	7	0	9	9	0	0
0500	29	87	49	51	87	1	0	3	8	0	0
0600	28	91	52	48	87	1	0	3	8	0	0

Alt is in metres Area is km2 and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.

River and Code: **WHITE (LOUTH)**

06W01

Tributary Of: 06D01 DEE

OS Catchment No: 96

OS Grid Ref of confluence: O 062 908

Date(s) Surveyed: 31/12/1974, 31/12/1976, 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 24/7/2000, 21/8/2003, 27/7/2006, 29/7/2009, 5/10/2009, 6/10/2011, 8/9/2012

Biological Quality Ratings (Q Values)

Station Nos.	1974	1976	1978	1980	1982	1986	1990	1991	1994	1997	2000	2003	2006	2009	2011	2012
0040	-	-	-	-	-	-	4	-	4-5	4-5	3-4	4	4	4	-	-
0050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0080	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
0100	-	-	3-4	4-5	3-4	4-5	4-5	-	4	4	3-4	3-4	-	-	-	4
0200	3	3	3-4	4	4-5	4-5	4	-	-	-	-	-	3-4	4	-	-
0290	-	-	-	-	-	-	3-4	-	3	3	3-4	3-4	-	-	-	-
0300	-	-	2/0	3	4-5	4-5	2-3	-	-	-	-	-	-	-	-	-
0400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
0500	2-3/0	1/0	3/0	3	3/0	1/0	2	2	2-3	2-3	3-4	3-4	3-4	3-4	3	-
0530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessment: Satisfactory ecological conditions were maintained in the upper reaches of the White River (New Br. 0100) in 2012. However, the lower reaches remain unsatisfactory, downstream of Dunleer Railway Bridge (0400).

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br u/s White River Br	300889	284557	36	LH
0050	White River Br	301366	284638	36	LH
0080	Gibbers Bridge	303172	284927	36	LH
0100	New Br	304628	285661	36	LH
0200	Athclare Br	305896	286586	36	LH
0290	Grangebellew Rd Br Dunleer	305873	287870	36	LH
0300	Main Rd Br Dunleer	305753	288205	36	LH
0400	500m d/s Dunleer Ry Br	305723	289025	36	LH
0500	Coneyburrow Br	305719	289280	36	LH
0530	800 m d/s Coneyburrow Br	305820	289705	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	98	7	100	0	67	8	0	0	26	0	0
0050	93	8	100	0	63	8	0	0	29	0	0
0080	68	10	100	0	58	6	0	0	36	0	0
0100	53	30	100	0	66	4	0	1	29	0	0
0200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0290	28	45	100	0	59	3	0	2	37	0	0
0300	24	45	100	0	59	3	0	2	37	0	0
0400	20	47	100	0	58	3	0	3	36	0	0
0500	17	55	100	0	58	2	0	3	37	0	0
0530	13	57	100	0	58	2	0	3	37	0	0

Alt is in metres Area is km² and Sil, Cal are % siliceous and calcareous bedrock and Pasture, Forestry, etc., are % of catchment area.