

APPENDIX 3: RIVER ASSESSMENTS 2012

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) of Biological Assessment: 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

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

Assessments

Biological (2010): 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.

Physico-Chemical (2012): WFD Operational monitoring at station 0600 in 2012 suggests generally satisfactory conditions with a slight reduction in o-phosphate levels observed. This is in contrast to a slight upward trend since the mid 2000s. Nitrate levels have decreased slightly in the same period.

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: **BALLYMASCANLAN**

06B02

Tributary of: 06F02 FLURRY

OS Catchment No: 91

OS Grid Ref of confluence: J 081 100

Date(s) of Biological Assessment: 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

[illegible]

0450	-	-	-	-	-	-	-	-	-	-	-	-
0500	1-2	1	3	4	3	-	-	-	-	-	-	-

Assessments

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

Physico-Chemical (2012): WFD Operational monitoring at Jonesborough Bridge indicates that water quality remains unsatisfactory with ammonia, o-phosphate and BOD levels slightly elevated on occasion. Indeed o-phosphate levels have risen slightly over the last 10 years. On the plus side, nitrates are now lower than they have been since the beginning of the last decade.

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	LH
0300	New Br	307128	311816	29	LH
0400	Br d/s New Br	0	0	0	LH
0450	U/s Ballymascanlan Br	0	0	0	LH
0500	Ballymascanlan Br	308085	310187	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	58	0	100	0	40	0	0	60	0	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
0300	30	2	85	15	91	5	0	4	0	0	0
0400	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0450	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0500	6	4	54	46	87	3	0	8	2	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: **BIG (LOUTH)**

06B01

Tributary of: SEA

OS Catchment No: 90

OS Grid Ref of confluence: J 168 054

Date(s) of Biological Assessment: 31/12/1973, 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1986, 31/12/1990, 31/12/1991, 31/12/1994, 31/12/1997, 5/7/2000, 11/8/2003, 10/7/2006, 25/6/2009, 28/9/2011

Biological Quality Ratings (Q Values)															
Station Nos.	1973	1978	1980	1982	1984	1986	1990	1991	1994	1997	2000	2003	2006	2009	2011
0100	-	5	5	5	5	5	5	-	5	4-5	4-5	4-5	4	4	4-5
0200	5	4-5	4-5	4	4	4	3	-	-	-	-	-	-	-	-
0300	1	1	2	1	1	1-2	2	2	4-5	3-4	4	4	3-4	3	4-5
0400	-	-	1-2	1/0	1/0	1/0	3	-	-	-	-	-	-	-	-

Assessments

Biological (2011): A welcome return to highly satisfactory ecological conditions was noted on the Big River when sampled in September 2011, a situation that was last observed in 1994.

Physico-Chemical (2012): Monitoring carried out at station 0100 only (WFD Surveillance) with 2012

data indicating satisfactory water quality. No significant change from 2011 – indeed o-phosphate and nitrate levels have remained consistently low over the last 10 years.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Ballygoly Br	315156	309883	36	LH
0200	Br u/s Riverstown Br	316323	307400	36	LH
0300	Riverstown Br	316519	306642	36	LH
0400	0.5km d/s Riverstown Br	316778	306270	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	94	11	98	2	34	3	29	0	0	0	33
0200	33	24	96	4	46	3	27	0	4	0	20
0300	22	25	93	7	46	3	26	0	5	0	20
0400	12	25	92	8	46	3	26	0	6	0	20

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 (MONAGHAN)**

03B01

Tributary of: LOUGH NEAGH

OS Catchment No: 68

OS Grid Ref of confluence: H 922 637

Date(s) of Biological Assessment: 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

Biological Quality Ratings (Q Values)													
Station Nos.	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

Assessments

Biological (2010): 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.

Physico-Chemical (2012): Physico-chemical monitoring carried out at 4 stations. Nutrient levels u/s and d/s of Scotstown are generally satisfactory with no significant change compared to 2011.

Further downstream however, nutrient levels become slightly more elevated with the least satisfactory conditions being observed at station 0800 (WFD Surveillance). That said, o-phosphate levels are now at their lowest levels at station 0800 in the last 20 years with very significant reductions observed in that period.

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	267920	335344	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: **BUNNOE**

36B05

Tributary of: 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of confluence: H 505 124

Date(s) of Biological Assessment: 31/12/1983, 31/12/1985, 31/12/1987, 31/12/1988, 31/12/1989, 31/12/1990, 31/12/1993, 26/6/1997, 1/10/1998, 23/7/1998, 28/9/1998, 28/8/2001, 29/8/2001, 10/8/2004, 11/8/2004, 8/8/2007, 9/7/2007, 11/8/2010

Biological Quality Ratings (Q Values)													
Station Nos.	1983	1985	1987	1988	1989	1990	1993	1997	1998	2001	2004	2007	2010
0080	-	-	2	3	2-3	-	-	-	-	-	-	-	-
0090	-	-	-	-	-	-	3	3	3-4	3	4	4	3-4
0100	-	2-3	1	3	2	2-3	-	-	-	-	-	-	-
0200	-	-	2	2-3	2-3	-	-	-	-	-	-	-	-
0300	-	1	1-2	2-3	-	-	-	-	-	2-3	-	-	-
0400	1-2	3	1-2	2-3	3	-	3-4	4	-	3	4	3-4	3

0440	-	-	3	-	4	-	3-4	-	-	-	-	-	-
0500	3-4	4	4	-	3-4	-	3-4	3-4	3-4	3	3-4	-	3-4
0600	4-5	4	4-5	-	3-4	-	-	-	-	-	-	-	-
0700	4-5	4-5	4-5	-	3-4	-	4	3-4	3-4	3-4	3-4	4	3-4

Assessments

Biological (2010): An unwelcome decline in ecological quality at three out of four sites sampled on the Bunnoe was noted in August 2010, and resulted in overall unsatisfactory conditions. Agriculture is suspected as the cause of the less than satisfactory state of the river.

Physico-Chemical (2012): Stations 0080 – 0440 are in County Monaghan and stations 0500 - 0700 in County Cavan. Of the stations in Monaghan, physico-chemical monitoring was carried out at Doohat Bridge only in 2012 as part of Investigative Monitoring Programme. Slightly elevated o-Phosphate levels were observed on occasion (August sampling in particular) though it should be noted that in general, nutrient levels were slightly lower than those observed in 2011.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0080	Br E of Manse	0	0	0	MN
0090	Rly Br Aghadrumkeen	261631	322968	28	MN
0100	Br SW of Aghadrumkeen	260906	322596	28	MN
0200	Br N of Corduff	0	0	0	MN
0300	Doohat Br	256803	320224	0	MN
0400	Dianmore Br	255171	318370	27	MN
0440	Br nr Ballinageeragh	0	0	0	MN
0500	Br W of Killynenagh L	252344	316054	27	CN
0600	Br E of Lisboduff	0	0	0	CN
0700	Br u/s Annalee R confl	250376	313112	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0090	98	8	100	0	98	2	0	0	0	0	0
0100	94	9	100	0	99	1	0	0	0	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
0300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0400	89	54	100	0	96	0	0	0	0	1	3
0440	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0500	75	65	100	0	93	0	0	0	4	1	3
0600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0700	61	80	100	0	87	0	0	0	10	1	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: **CARRICKASLANE LOUGH STREAM**

06C04

Tributary of: 06F01 FANE

OS Catchment No: 94

OS Grid Ref of confluence: H 815 214

Date(s) of Biological Assessment: 31/12/1990, 31/12/1994, 31/12/1997, 18/7/2000, 13/8/2003, 17/10/2006, 23/9/2009, 4/9/2012

Formerly Carrickaslane Lough Branch of Fane River

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>							
	1990	1994	1997	2000	2003	2006	2009	2012
0115	4	4	3-4	4	3	3	3	3

Assessments

Biological (2012): Just upstream of Carrickaslane Lough the stream continues to be of unsatisfactory ecological condition, with no change of status in 2012.

Physico-Chemical (2012): This stream is not currently included in the WFD Chemistry Monitoring Programme.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0115	Br u/s Carrickaslane L	280540	324500	28	MN

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0115	N/A	5	100	0	82	0	8	0	11	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: **CASTLETOWN**

06C01

Tributary of: SEA – DUNDALK BAY

OS Catchment No: 92

OS Grid Ref of confluence: T 047 083

Date(s) of Biological Assessment: 31/12/1974, 31/12/1978, 31/12/1982, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 6/7/2000, 12/8/2003, 13/8/2003, 11/7/2006, 18/6/2009, 6/9/2012

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>											
	1974	1978	1982	1986	1990	1994	1997	2000	2003	2006	2009	2012
0050	-	-	-	-	-	4	4	4-5	3	3	3	3
0100	-	5	5	5	4-5	-	-	-	-	-	-	-
0150	-	-	-	-	-	-	-	-	-	-	-	-
0200	5	5	4-5	4-5	4-5	4	4	4	4	3-4	-	3
0250	-	-	-	-	-	-	-	-	-	-	-	-
0300	4	4-5	3-4	4	3-4	-	-	-	-	-	-	-
0310	-	-	-	-	-	3-4	4	4-5	4	3-4	4	3-4

Assessments

Biological (2012): Continuing unsatisfactory conditions were observed at Ballybinaby Br. At Ford's Br, which was last assessed in 2006, a slight decline from moderate to poor ecological condition was recorded. At the Weir d/s of John's Br a slight decline from good to moderate ecological condition was recorded, reversing the improvement recorded at this site between 2006 and 2009.

Physico-Chemical (2012): Physico-chemical monitoring (WFD Operational) carried out at Ford's

Bridge (0200) and 2012 data suggests a slight improvement in water quality. In 2009 the annual average o-phosphate level increased significantly, but it has steadily decreased in subsequent years. In addition, current nitrate levels are at their lowest in the last 10 years.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	Ballybinaby Br	295791	311768	28	LH
0100	Br N of Hackballscross	297561	310761	28	LH
0150	Kieran's Br	0	0	0	
0200	Ford's Bridge	300729	309852	36	LH
0250	Bellew's Br	0	0	0	
0300	St John's Br	303001	309682	36	LH
0310	Weir d/s John's Br	303197	309544	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	54	1	100	0	94	0	0	6	0	0	0
0100	41	9	100	0	92	0	0	6	2	0	0
0150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0200	19	12	96	4	88	0	0	5	7	0	0
0250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	5	33	73	27	75	0	0	3	22	0	0
0310	4	33	73	27	75	0	0	3	22	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: **CLONTIBRET STREAM**

03C01

Tributary of: 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of confluence: H 734 381

Date(s) of Biological Assessment: 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

Biological Quality Ratings (Q Values)									
Station Nos.	1989	1990	1993	1996	1998	2001	2004	2007	2010
0600	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

Assessments

Biological (2010): 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.

Physico-Chemical (2012): Station 1400 is the only one included in the WFD Chemistry Monitoring Programme (Operational) though monitoring of stations 1100 and 1200 continued to be carried out in 2012 as in 2011, as part of the Investigative Programme. Overall, physico-chemical data indicates some improvement in water quality at station 1400 in 2012. O-Phosphate and nitrate levels have steadily decreased in the last decade though still remain too high.

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	274525	331604	28	MN
1200	Br NE of Castleshane Ho	274020	332180	28	MN
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

OS Grid Ref of confluence: H 658 348

Date(s) of Biological Assessment: 31/12/1989, 31/12/1990, 31/12/1993, 31/12/1996, 20/7/1998, 17/7/2001, 18/7/2001, 17/8/2004, 18/8/2004, 3/7/2007, 6/7/2010

Biological Quality Ratings (Q Values)									
Station Nos.	1989	1990	1993	1996	1998	2001	2004	2007	2010
1100	3	-	3	3	3	3	3	-	3
1200	2	3	3	-	-	-	-	-	-
1300	2-3	-	-	3	3	3	3	3	3

Assessments

Biological (2010): There has been no change in the unsatisfactory ecological condition of the Conawary Stream in over twenty years. Agriculture is the suspected cause of the continuing moderate pollution of this stream.

Physico-Chemical (2012): WFD Operational monitoring continued in 2012 at station 1300, just before this river joins the Blackwater. Continuing evidence of intermittent pollution with slightly elevated ammonia and o-phosphate levels on occasion. While o-phosphate levels have dropped steadily from the early 1990s to the mid 2000s, the trend since then has been slightly upwards which is of concern. Nitrate levels are pretty much at the same level as they were in the early 1990s although having risen in the intervening years, the trend in the last few years has been downwards.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
1100	White Br	263927	332559	28	MN
1200	2nd Br u/s Blackwater R	265068	334277	28	MN
1300	Br u/s Blackwater R confl	265434	334559	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
1100	60	27	80	20	99	0	0	1	0	0	0

1200	56	45	74	26	93	4	0	2	0	0	1
1300	54	45	73	27	93	4	0	2	0	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 (UPPER)**

36C11

Tributary of: ULSTER CANAL

OS Catchment No: 68

OS Grid Ref of confluence:

Date(s) of Biological Assessment: 31/12/1989, 31/12/1993, 31/12/1996, 20/7/1998, 27/8/2001, 9/8/2004, 5/7/2007, 14/7/2010

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>				
	1998	2001	2004	2007	2010
0500	3	3*	2	3	3

Assessments

Biological (2010): The dominance of pollution tolerant species continues to indicate unsatisfactory conditions in the Conawary (Upper), with agricultural causes suspected.

Physico-Chemical (2012): Elevated o-phosphate levels in particular on occasion are evidence of intermittent pollution. In the last four years, the highest o-phosphate concentrations have been observed in the same month i.e. August. However it should be noted that ammonia, o-phosphate and nitrate levels have roughly halved since the late 1990s and the current trend remains downwards.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0500	Br West Cornasoo	261029	328381	27	MN
0700	Br N of Roosky	261500	330300	27	MN
0800	Br SE of Cooldarragh Br	261747	330948	27	MN

Station No.	<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>										
	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0500	124	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: **COUNTY WATER**

06C03

Tributary of: LOUGH MUCKNO

OS Catchment No: 94

OS Grid Ref of confluence: H 847 202

Date(s) of Biological Assessment: 31/12/1980, 31/12/1984, 31/12/1990, 31/12/1994, 31/12/1997, 17/7/2000, 13/8/2003, 13/7/2006, 23/9/2009, 4/9/2012

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>									
	1980	1984	1990	1994	1997	2000	2003	2006	2009	2012
0050	-	-	-	-	-	3*	3	4	4	4
0080	-	-	-	-	-	3-4*	3	3	-	-
0100	4-5	3	4-5	3	3	-	-	-	-	-
0170	-	-	-	-	-	3-4	3*	3-4	3-4	3-4

0200	4	3	4	3-4	3	-	-	-	-	-
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Assessments

Biological (2012): Good ecological condition was again recorded at County Br (0050). At Br u/s Wallace's Br (0170) the moderate ecological condition recorded in 2009 was maintained in September 2012.

Physico-Chemical (2012): WFD Operational Monitoring continued in 2012 at stations 0050 and 0170. Both stations continue to be impacted by pollutant inputs with ammonia and o-phosphate levels in particular elevated from time to time. No significant change observed compared to 2011. As regards longer term trends, average o-phosphate levels are lower than they were in the late 1990s but have remained fairly constant in the last five years and well above the EQS for moderate status. Nitrate levels have fallen fairly significantly in the last five years. Average ammonia levels are generally lower than they were in the late 1990s but the downward trend was skewed by one very high result observed in January 2008.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0050	County Br	289250	324600	28	MN
0080	Br u/s Tullycollive Br	288450	320950	28	MN
0100	Tullycollive Br	287115	320900	28	MN
0170	Br u/s Wallace's Br	285596	321605	28	MN
0200	Wallace's Br	284958	320419	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0050	-99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0080	-99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0100	105	1	100	0	100	0	0	0	0	0	0
0170	98	8	100	0	96	0	0	0	4	0	0
0200	90	9	100	0	94	0	0	0	6	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: **CULLY WATER**

06C02

Tributary of: 06K02 KILCURRY

OS Catchment No: 92

OS Grid Ref of confluence: J 025 109

Date(s) of Biological Assessment: 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

Biological Quality Ratings (Q Values)											
Station Nos.	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

Assessments

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

Physico-Chemical (2012): Physico-chemical monitoring carried out at station 0200 just before this river joins the Kilcurry. o-Phosphate levels were slightly elevated on occasion with no significant change from 2011 observed.

Since the late 1990s, o-phosphate levels fell until the late 2000s when they rose again slightly (mainly 2009) but since then have diminished somewhat. In the same period, nitrate levels reached a peak in the middle of the last decade but have been falling steadily since then.

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) of Biological Assessment: 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

Biological Quality Ratings (Q Values)															
Station Nos.	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	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	3	-
1100	-	-	-	4	4	4	3-4	-	-	-	-	-	-	-	3

Assessments

Biological (2012): 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.

Physico-Chemical (2012): Physico-chemical monitoring continued to be carried out at six stations – WFD Surveillance monitoring at station 0600 and WFD Operational Monitoring at stations 0670, 0680, 0710, 1000 & 1100. In general, the data indicates that water quality is best in the upper reaches of the river and deteriorates slightly as one goes downstream. However, the 2012 monitoring suggests that there has been some improvement at all stations compared to 2011, mainly due to the reduced o-phosphate levels observed with perhaps the greatest improvement evident just downstream of Ardee. The most significant intermittent pollution in 2012 occurred at station 1000 where ammonia levels were elevated in January.

As regards long term trends, since the late 1990s o-phosphate levels have generally decreased slightly at all stations while in the same period, nitrate levels increased to reach a peak in the middle of the last decade but have decreased steadily since then.

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	MH
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	Ballanagerrisk 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	MH
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

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
<i>Station No.</i>	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
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: **DROMORE**

36D02

Tributary of: 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of confluence: H557 122

Date(s) of Biological Assessment: 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

<i>Biological Quality Ratings (Q Values)</i>															
<i>Station Nos.</i>	<i>1971</i>	<i>1977</i>	<i>1980</i>	<i>1982</i>	<i>1984</i>	<i>1986</i>	<i>1989</i>	<i>1990</i>	<i>1993</i>	<i>1997</i>	<i>1998</i>	<i>2001</i>	<i>2004</i>	<i>2007</i>	<i>2010</i>
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
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	-	-	-	-

Assessments

Biological (2010): 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.

Physico-Chemical (2012): In 2012, physico-chemical monitoring was carried out at 3 stations – 0100 (WFD Investigative), 0150 (WFD Surveillance) and 0300 (WFD Operational). Continuing evidence of nutrient enrichment in this river with a deterioration in water quality noted at station 0100 where ammonia and o-phosphates were particularly elevated on one occasion (April sampling). No significant change in water quality observed at other two stations compared to 2011. Since the mid 1990s, o-phosphate levels at stations 0150 and 0300 have fallen significantly to reach their lowest levels in the period 2005-2007. Since then however, they have tended to increase slightly again. In the same period, nitrate levels have gradually fallen at both stations and are now at their lowest level since the mid 1990s.

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	274323	320129	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	269806	321222	28	MN
0150	Br in Ballybay	271686	320500	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
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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
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
0800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0900	67	222	100	0	89	1	0	1	3	2	3
0910	67	222	100	0	89	1	0	1	3	2	3

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) of Biological Assessment: 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

Formerly: 06G02 Glyde Drumsallagh Branch

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>							
	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

Assessments

Biological (2012): 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.

Physico-Chemical (2012): Very high BOD and slightly elevated ammonia and o-phosphate levels in October sample are indicative of a deterioration in water quality at that time. Prior to this, nutrient levels were satisfactory.

There have been some fluctuations in o-phosphate levels over the past few years but current levels are similar to those observed 6/7 years ago. In the same period, nitrate levels have dropped slightly.

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 Magheracloone Branch)	280160	298260	35	MN

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
<i>Station No.</i>	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
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
0070	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: SEA – DUNDALK BAY

OS Catchment No: 94

OS Grid Ref of confluence: J 064 018

Date(s) of Biological Assessment: 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

<i>Biological Quality Ratings (Q Values)</i>														
<i>Station Nos.</i>	<i>1974</i>	<i>1976</i>	<i>1980</i>	<i>1982</i>	<i>1986</i>	<i>1990</i>	<i>1994</i>	<i>1997</i>	<i>2000</i>	<i>2003</i>	<i>2006</i>	<i>2007</i>	<i>2009</i>	<i>2012</i>
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	-	-	-	-	-	-	-	-	-	-

Assessments

Biological (2012): 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).

Physico-Chemical (2012): In 2012, WFD Operational monitoring was carried out at stations 0200 & 0900, WFD Investigative monitoring carried out at station 0300 and WFD Surveillance monitoring at station 0650. Observed nutrient levels at all stations were quite satisfactory despite a slight increase evident as you travel downstream. Overall though, there was little change compared to 2011.

Long term o-phosphate data upstream of Lough Muckno shows that there were significant increases in concentrations in the mid 1990s & 2000s and while levels have dropped since then, they still remain higher than they were in the 1980s. At station 0900, o-phosphate levels have been consistently much higher over the same time period with highest levels observed in the mid 1990s.

Current levels are similar to those observed in 1980.

Historical trends for nitrate follow a very similar pattern although the current downward trend is perhaps more pronounced than that for o-phosphate.

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	MN
0080	Br u/s Muckno Mill Lough	284723	322660	0	MN
0114a	Carrickaslane Lough Branch	0	0	0	MN
0134a	West Branch	0	0	0	MN
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	MN
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	Castlering Br	296636	303711	36	LH
0800	Knock Br	298812	303159	36	LH
0900	Stephenstown Br	301390	301567	36	LH
1000	Lurgangreen Br	306120	301425	36	LH

Site Altitude and Upstream Catchment Characteristics (where available):											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0039a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0080	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0114a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0134a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0155	112	6	100	0	82	0	5	0	13	0	0
0180	92	11	100	0	80	0	3	0	17	0	0
0200	90	43	100	0	87	0	3	1	8	1	0
0299a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	90	112	100	0	85	0	2	2	6	4	1
0400	-99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0500	65	5	100	0	77	0	0	0	23	0	0
0600	54	21	95	5	76	0	0	0	24	0	0
0650	47	24	95	5	76	0	0	1	22	0	0
0700	23	43	97	3	82	0	0	1	16	0	1
0800	10	92	99	1	76	0	0	1	20	0	2
0900	6	102	99	1	73	0	0	1	24	0	2
1000	0	129	99	1	67	0	0	1	30	0	2

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

36F01

OS Catchment No: 123

Date(s) of Biological Assessment: 31/12/1971, 31/12/1973, 31/12/1977, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1989, 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

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	-	-	-	-	-	-	-

Biological (2010): 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%).

Physico-Chemical (2012): WFD Operational monitoring was carried out at stations 0100 & 0200 while WFD Surveillance monitoring was carried out at station 0500. In general, nutrient levels are lowest at station 0100 but increase further downstream, particularly at station 0500. That said, o-phosphate levels were lower at this station in 2012 than they were in 2011. In addition, both o-phosphate and nitrate levels have been gradually falling since the mid 1990s.

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

[illegible]

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: **FLURRY**

06F02

Tributary of: SEA – DUNDALK BAY

OS Catchment No: 91

OS Grid Ref of confluence: J 075 097

Date(s) of Biological Assessment: 31/12/1978, 31/12/1980, 31/12/1982, 31/12/1984, 31/12/1986, 31/12/1990, 31/12/1994, 31/12/1997, 5/7/2000, 11/8/2003, 12/8/2003, 10/7/2006, 24/6/2009, 28/9/2011

<i>Biological Quality Ratings (Q Values)</i>													
Station Nos.	1978	1980	1982	1984	1986	1990	1994	1997	2000	2003	2006	2009	2011
0100	4-5	4-5	4-5	4	4	3	3-4	3/0	3	3	3	3	3-4
0200	-	4-5	4-5	1/0	4	3-4	-	-	-	-	-	-	-
0300	4-5	4-5	5	4-5	4-5	4-5	4-5	4	3	3	3-4	-	3-4
0400	4	5	5	4	4	4	-	-	-	-	-	-	-
0500	-	-	-	-	-	-	-	-	-	-	-	-	-
0600	3	2	1-2	2-3	2-3	3	3-4	4	-	-	-	-	-
0700	-	3-4	1-2	3	3	4	3-4	4	3	3	3-4	3-4	4

Assessments

Biological (2011): A general improvement in ecological condition was noted in the Flurry in 2011, with the upper sites (0100 and 0300) now at moderate status and the upper site (0700) in good status.

Physico-Chemical (2012): WFD Operational monitoring carried out at station 0700. Overall, 2012 data suggests a slight improvement in water quality. Following an upward trend, o-phosphate levels have reduced over the last couple of years. Nitrate levels have also been falling gradually over the last 5/6 years.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Flurry Br	307242	317697	29	LH
0200	Just W of Ravensdale Ho	307779	316117	29	LH
0300	Curralhir Br	308151	314457	29	LH
0400	Thompson's Br	308686	312556	29	LH
0500	At Brohatna	308782	312291	29	LH
0600	Proleek: Br near old Smithy	308639	311293	29	LH
0700	Ballymascanlan Br	308137	310098	29	LH

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	94	0	100	0	27	0	0	69	4	0	0
0200	77	3	100	0	37	43	0	5	0	0	15
0300	62	8	100	0	20	46	11	2	0	0	22
0400	40	14	99	0	27	29	13	1	0	0	31
0500	36	14	98	2	32	27	12	1	0	0	29
0600	21	24	98	2	35	18	17	1	0	0	30
0700	5	25	92	8	38	17	16	1	0	0	28

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: GENTLE OWEN'S LAKE STREAM

06G04

Tributary of: 06F01 FANE

OS Catchment No: 94

OS Grid Ref of confluence: H 829 206

Date(s) of Biological Assessment: 31/12/1971, 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, 13/8/2003, 12/7/2006, 13/7/2006, 23/9/2009, 4/9/2012

Formerly: 06F01 Fane East Branch

Biological Quality Ratings (Q Values)

Station Nos.	1971	1976	1980	1982	1986	1990	1994	1997	2000	2003	2006	2009	2012
0040	-	-	-	-	-	-	3-4	4-5	4	3-4*	4	4	4
0080	-	-	-	-	-	4	-	-	-	-	-	-	-
0100	4	3	4	4-5	3-4	3	3-4	3	3	4	3	3-4	3-4

Assessments

Biological (2012): Ecological condition of Gentle Owen's Lake Stream remains good at the bridge in Creaghanroe (0040) in 2012, while moderate conditions prevail at the bridge d/s of Muckno Mill Lough (0100).

Physico-Chemical (2012): WFD Operational monitoring carried out at station 0100, just before this stream joins the Fane River. Slightly elevated ammonia and o-phosphate levels are indicative of intermittent pollution with levels slightly more elevated than they were in 2011.

This slight increase bucks the 10 year trend for o-phosphate and nitrate levels in this stream which has been generally downward.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0040	Br in Creaghanroe	283280	325060	28	MN
0080	Br u/s Muckno Mill Lough	284723	322660	28	MN
0100	Br 1.5km d/s Muckno Mill L	283409	321432	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0040	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0080	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: GLYDE

06G02

Tributary of: SEA AT ANNAGASSAN

OS Catchment No: 95

OS Grid Ref of confluence: O 090 940

Date(s) of Biological Assessment: 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

Biological Quality Ratings (Q Values)														
Station Nos.	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessments

Biological (2012): 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.

Physico-Chemical (2012): In 2012, physico-chemical monitoring carried out at WFD Operational stations 0100, 0500, 0700, 0900 and 1230. Continuing evidence of intermittent pollution of the Glyde River, in particular at Cormey Bridge (0100) where ammonia and o-phosphate levels were elevated on occasion and d/s of Castlebellingham where ammonia levels were frequently elevated. Compared to 2011, there was no significant change in water quality.

As regards long term trends for o-phosphate, while levels are considerably lower than they were in the mid 1990s, over the past few years, they have remained static or even started to rise again (0700 and 1230).

In the last 5/6 years, nitrate levels have fallen gradually although they still remain as high if not higher than they were in the late 1970s / early 1980s.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0049a	Drumsallagh Branch	0	0	0	LH
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

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
<i>Station No.</i>	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
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) of Biological Assessment: 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

Biological Quality Ratings (Q Values)

Station Nos.	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

Assessments

Biological (2012): Macroinvertebrate fauna indicated continuing good ecological conditions in the Kilcurry River in 2012.

Physico-Chemical (2012): This river is not currently included in the WFD Chemistry Monitoring Programme.

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: **KNAPPAGH**

36K01

Tributary of: 36A02 ANNALEE

OS Catchment No: 123

OS Grid Ref of confluence: H 678 099

Date(s) of Biological Assessment: 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

Biological Quality Ratings (Q Values)											
Station Nos.	1977	1981	1985	1989	1993	1997	1998	2001	2004	2007	2010
0200	-	4	3-4	3-4	3	3	3	3*	4	3	3-4
0400	4	4	3-4	3	3-4	3	3	3-4*	3-4*	-	3
0700	-	4-5	4	3	3-4	3-4	3	3-4*	4	3-4	3-4

Assessments

Biological (2010): The dominance of pollution tolerant species continues to indicate unsatisfactory conditions at all sites on the Knappagh in 2010. Signs of moderate pollution such as paucity of pollution sensitive macroinvertebrates, excessive weed and algal growth, excessive siltation and low DO (77%) was apparent at Lacken bridge (0400), exacerbated by lake effects.

Physico-Chemical (2012): Physico-chemical monitoring at stations 0100 (crossroads N/E of Bocks Lough) and 0400 (Lackan Bridge) as part of WFD Investigative monitoring programme. Elevated o-phosphates in 2012 at station 0100 are indicative of intermittent pollution though levels slightly lower than 2011. Water quality at station 0400 was better in terms of o-phosphate levels but slightly elevated ammonias are evidence of slight intermittent pollution.

Since the late 1990s, o-phosphate levels at station 0100 have fallen steadily to a point where they are less than half what they were at that time. However they still remain much too high. A similar trend is evident at station 0400, although levels have been comparatively much lower.

Historically, nitrate levels have followed a similar pattern although they have always been relatively low and much more comparable between the two stations.

<i>Station No.</i>	<i>Station Location</i>	<i>National X</i>	<i>Grid Ref. Y</i>	<i>Discovery Series No.</i>	<i>County Code</i>
0100	Cross Roads NE of Bocks L	278594	311575	28	MN
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

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
<i>Station No.</i>	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
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: **LACKEY** **36L07**
Tributary of: 36F01 FINN (MONAGHAN) OS Catchment No: 123
Date(s) of Biological Assessment: N/A

Assessment

Physico-Chemical (2012): WFD Investigative monitoring carried out at Clonfad Bridge in 2012. Elevated o-phosphate levels on occasion are indicative of intermittent pollution. No significant change in water quality from 2011.

<i>Station No.</i>	<i>Station Location</i>	<i>National X</i>	<i>Grid Ref. Y</i>	<i>Discovery Series No.</i>	<i>County Code</i>
1800	Clonfad Bridge	249552	325015	27	MN

River and Code: **MAGHERACLOONE STREAM** **06M01**
Tributary of: 06G02 GLYDE OS Catchment No: 95
OS Grid Ref of confluence: N 803 981
Date(s) of Biological Assessment: 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 Magheracloone Branch of the Glyde River 06G02

<i>Biological Quality Ratings (Q Values)</i>								
<i>Station Nos.</i>	<i>1990</i>	<i>1994</i>	<i>1997</i>	<i>2000</i>	<i>2003</i>	<i>2006</i>	<i>2009</i>	<i>2012</i>
0082	5	3-4	4-5	-	-	-	-	-
0096	4-5	4-5	4-5	4-5	4	4	4	4

Assessments

Biological (2012): Macroinvertebrate fauna indicate continuing good ecological condition in the

Magheracloone Stream in 2012.

Physico-Chemical (2012): Physico-chemical monitoring carried out at station 0096 (WFD Operational). Data indicates that water quality is generally satisfactory. Over the past 5/6 years, o-phosphate and nitrate levels have fallen slightly.

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	279552	299582	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: **MAGHERARNEY**

36M01

Tributary of: 36F01 FINN (MONAGHAN)

OS Catchment No: 123

OS Grid Ref of confluence: H 556 280

Date(s) of Biological Assessment: 31/12/1973, 31/12/1977, 31/12/1980, 31/12/1982, 31/12/1986, 31/12/1987, 31/12/1989, 31/12/1993, 26/6/1997, 20/7/1998, 27/8/2001, 9/8/2004, 5/7/2007, 14/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1973	1977	1980	1982	1986	1987	1989	1993	1997	1998	2001	2004	2007	2010
0100	-	-	3	3	-	3	2-3	-	-	-	-	n/s	-	-
0150	-	-	-	-	-	3	3	3	3	3	2-3	3	-	3
0200	5	3	2-3	2	2	2-3	2-3	3	3	3	2/0	3	3	3
0250	-	-	-	-	-	-	2-3	-	-	-	-	-	-	-
0300	-	-	-	-	2-3	-	3	-	-	-	-	-	-	-

Assessments

Biological (2010): Unsatisfactory ecological conditions have persisted in the Magherarney river for over thirty years, a situation which still prevails at all sites in 2010.

Physico-Chemical (2012): WFD Operational monitoring carried out at Magherarney Bridge downstream of Smithborough. Little change in water quality compared to 2011 with elevated ammonia and o-phosphate levels again evident on occasion (August in particular).

o-Phosphate levels rose sharply in this river at the beginning of the last decade but fell sharply at the end of the decade. While they have continued to fall since then, the rate of decrease has slowed down. Despite a rise in the mid 2000s, nitrate levels have been falling gradually since the mid 1990s.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Br 2 km NE of Smithborough	260611	331794	28	MN
0150	Br E of Smithborough	259808	330603	27	MN
0200	Magherarney Br	257868	329856	27	MN

0250	0.2km u/s Maghery R confl	0	0	27	MN
0300	0.2km d/s Maghery R confl	0	0	27	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	59	16	0	100	97	2	0	0	0	0	0
0150	56	21	6	94	98	2	0	0	0	0	0
0200	52	28	18	82	98	1	0	0	0	0	0
0250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	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: **MAGHERY**

36M03

Tributary of: 36M01 MAGHERARNEY

OS Catchment No: 123

OS Grid Ref of confluence: H 574 293

Date(s) of Biological Assessment: 31/12/1986, 31/12/1989, 31/12/1993, 26/6/1997, 7/7/1997, 22/7/1998, 23/7/1998, 28/8/2001, 10/8/2004, 9/8/2004, 5/7/2007, 14/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1986	1989	1993	1997	1998	2001	2004	2007	2010
0100	-	3	-	-	-	-	-	-	-
0200	-	3	3-4	3	3	3	3	-	2-3
0600	-	2-3	3-4	-	-	-	3	3-4	2-3
0900	-	-	-	3	3	2-3	3	-	3
1000	-	3	3-4	-	-	-	-	-	-
1200	2-3	2-3	3	3	3	3	3	3	3

Assessments

Biological (2010): Persistent unsatisfactory ecological conditions are a feature of the Maghery river, and there has been no change in 2010. The very restricted faunal diversity and the complete absence of sensitive macroinvertebrate species point to something amiss in this shallow stony stream, with agricultural causes suspected.

Physico-Chemical (2012): WFD Operational monitoring carried out at station 1200 and WFD Investigative monitoring continued to be carried out at station 0900. As in 2011, ammonia and o-phosphate levels were elevated on occasion in 2012 (April in particular), consistent with intermittent pollution events. Water quality was marginally better at Wats Bridge but again there was evidence of intermittent pollution with little change observed compared to 2011.

o-Phosphate levels had been falling at station 1200 since the beginning of the last decade but they have remained fairly constant over the last few years. Nitrate levels are now lower than at any time in the last 12 years.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Lennaght Br	0	0	27	MN
0200	Br SW of Kilmore L	254990	336826	27	MN
0600	Br WSW of Drumloo L	257160	335850	0	MN

0900	Wats Br	256817	333997	27	MN
1000	Br NW of Maghery	0	0	27	MN
1200	Hagan's Br	256957	330156	27	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0200	101	4	0	100	42	12	22	0	4	0	20
0600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0900	65	10	0	100	69	5	10	0	2	0	14
1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1200	54	19	0	100	84	3	5	0	1	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: MAJOR LOUGH STREAM

36M08

Tributary of: 36D02 DROMORE

OS Catchment No: 123

Date(s) of Biological Assessment: 31/12/1971, 31/12/1977, 31/12/1980, 31/12/1982, 31/12/1986, 31/12/1989, 31/12/1993, 2/7/1997, 23/7/1998, 29/8/2001, 11/8/2004, 12/7/2010

Biological Quality Ratings (Q Values)

Station Nos.	1971	1977	1980	1982	1984	1986	1989	1990	1993	1997	1998	2001	2004	2007	2010
0200	4	4	3-4	3-4	-	3-4	2-3	-	3	2-3	3	3	3-4	-	3

Assessment

Biological (2010): Major Lough Stream remains in generally unsatisfactory ecological condition in 2010. 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 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.

Physico-Chemical (2012): WFD Investigative monitoring carried at station 0036 in 2012. Data indicates satisfactory water quality.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0036	Br d/s Ballintra Br	274323	320129	28	MN
0200	Br d/s L Major	271940	320165	28	MN

Site Altitude and Upstream Catchment Characteristics (where available):

Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0036	80	45	100	0	94	0	2	0	4	0	0
0200	79	50	100	0	93	1	2	0	3	0	0

River and Code: **MATTOCK**

07M01

Tributary of: 07B04 BOYNE

OS Catchment No: 159

OS Grid Ref of confluence: O 037 757

Date(s) Surveyed: 31/12/1976, 31/12/1981, 31/12/1985, 31/12/1990, 31/12/1994, 31/12/1997, 7/9/2000, 29/9/2003, 3/7/2006, 4/8/2009, 13/6/2012

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>										
	1976	1981	1985	1990	1994	1997	2000	2003	2006	2009	2012
0020	-	-	-	-	-	-	-	-	-	-	5
0050	-	-	-	4	4	3-4	3-4	3-4*	3-4	-	3-4
0100	-	4-5	4	3	3-4	3	3-4	3-4*	3-4	4	4*
0200	5	4-5	4-5	4-5	3-4	3-4	4	4	3-4	3-4	3-4
0220	-	-	-	-	-	-	-	-	-	3-4	4
0250	-	4	4	3	-	-	-	-	-	-	-
0300	-	5	4-5	-	3-4	4	3	-	4	-	-

Assessments

Biological (2012): Satisfactory ecological conditions were noted at three of the five sites surveyed on the Mattock River in June 2012. The high diversity of pollution sensitive macroinvertebrate taxa indicated high ecological conditions in the upper reaches at Phoenixtown Bridge (0020) while good ecological conditions persist at Boyd's Bridge (0100) however excessive siltation was evident. Unsatisfactory moderate ecological conditions were noted at Collon (0050) and at Woodmill Bridge (0200). Good ecological conditions were noted in the lower reaches just downstream of the Devlins river confluence (0220) however signs of enrichment were evident with excessive siltation and algal growth noted.

Physico-Chemical (2012): WFD Operational monitoring continued to be carried out at stations 0100, 0200 & 0300. Nutrient levels continue to be elevated at all stations on occasion with highest o-phosphate levels observed d/s of Collon. Nitrate levels on the other hand are highest at station 0300, just before this river joins the Boyne.

On the positive side, in the last 12 years o-phosphate levels have been slowly falling at all stations. In the same period, while nitrate levels did increase somewhat in the mid 2000s, they have fallen to be currently at their lowest levels in that period.

<i>Station No.</i>	<i>Station Location</i>	<i>National X</i>	<i>Grid Ref. Y</i>	<i>Discovery Series No.</i>	<i>County Code</i>
0020	Phoenixtown Br	296037	280727	36	MH
0050	Slane Rd Br Collon	299751	281708	36	LH
0100	Boyd's Br	301855	280761	36	MH
0200	Wood Mill Br (u/s Devlins R Confl)	300458	276919	43	MH
0220	Ford at Devlins rv conflu	300138	276301	43	MH
0250	Mattock Br	0	0	43	MH
0300	New Br u/s Boyne R confl	303686	275639	43	MH

<i>Station No.</i>	<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>										
	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
0020	N/A	0	0	0	0	0	0	0	0	0	0
0050	105	11	98	2	85	1	0	1	13	0	0
0100	85	17	99	1	87	1	0	2	11	0	0
0200	44	41	100	0	82	0	0	2	16	0	0

0220	N/A	0	0	0	0	0	0	0	0	0	0
0250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	5	81	88	12	82	1	0	1	16	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: **MOUNTAIN WATER**

03M01

Tributary of: 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of confluence: H 678 438

Date(s) of Biological Assessment: 31/12/1973, 31/12/1977, 31/12/1981, 31/12/1983, 31/12/1985, 31/12/1989, 31/12/1993, 31/12/1994, 31/12/1996, 21/7/1998, 18/7/2001, 19/7/2001, 18/8/2004, 30/8/2004, 4/7/2007, 5/7/2007, 5/7/2010

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>													
	1973	1977	1981	1983	1985	1989	1993	1994	1996	1998	2001	2004	2007	2010
0100	5	5	5	5	5	5	4-5	5	4-5	4-5	4-5	4-5	4	4
0200	5	4-5	4-5	5	5	5	1/0	3-4	4-5	4-5	4-5	4	4	4
0400	4-5	4	4-5	4-5	4-5	4-5	2/0	3-4	4	4-5	4	3-4	3-4	3-4
0500	4	2	3-4	3	3	3	3/0	3	3-4	3	3	3	3	3
0650	-	-	4	4-5	3	3	3/0	3	3	3	3	3	-	3-4

Assessments

Biological (2010): The Mountain Water continues to be of satisfactory quality in its upper reaches (0100 and 0200) but suspected sewage and possibly other discharges continue to result in unsatisfactory conditions in the lower reaches.

Physico-Chemical (2012):WFD Operational Monitoring carried out at stations 0100, 0400 & 0500 with WFD Investigative monitoring carried out at station 0650. Water quality at 0100 (Coyle's Bridge) is satisfactory with low nutrient levels observed in 2012. However, o-phosphate and nitrate levels do gradually increase as one travels downstream. Also slightly elevated ammonia levels observed d/s of Emyvale (0500) at times which is indicative of intermittent pollution. o-Phosphate levels have fallen sharply at stations 0400 & 0500 from the highs observed in the mid to late 1990s though they have tended to level out in recent years. Although overall o-phosphate levels at station 0100 are low they have increased very slightly in the last 10 years. Nitrate levels have fallen gradually at all stations over the last 12 years.

Station No.	Station Location	National X	Grid Ref. Y	Discovery Series No.	County Code
0100	Coyle's Br	259662	346197	18	MN
0200	Br NE of Golan	262670	343971	19	MN
0400	1st Br u/s Emyvale	267050	343345	19	MN
0500	Br 1.1 km d/s Emyvale	268460	343142	19	MN
0650	Br N of Glaslough	272000	342200	19	MN

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
Station No.	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0100	152	6	0	100	0	25	58	0	2	0	15
0200	104	18	0	100	4	19	37	0	27	0	13
0400	59	35	0	100	25	10	20	0	38	0	7

0500	45	39	0	100	32	9	17	1	35	0	6
0650	40	59	0	100	55	6	11	0	23	0	4

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) of Biological Assessment: 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

Station Nos.	<i>Biological Quality Ratings (Q Values)</i>														
	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

Assessments

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

Physico-Chemical (2012): WFD Operational monitoring continued in 2012 at stations 0100, 0300 & 0500. Water quality at Dry Bridge (0100) was generally satisfactory with no significant change from 2011 observed. Despite a slight improvement in nutrient levels at station 0300 in 2012, water quality d/s of Carrickmacross remains unsatisfactory with o-phosphate and nitrate levels frequently elevated. The effects of pollution felt further downstream at station 0500 also.

o-Phosphate levels at station 0300 fell significantly in the early 2000s from the very high levels consistently observed previously. They have been somewhat erratic since reflecting the intermittent nature of pollutant inputs, though the general trend has been upwards. Levels at the other two stations have dropped from the highs observed in the mid 1990s.

Nitrate levels have fluctuated somewhat over the last 30 plus years although the overall trend is a slightly upward one in that period.

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

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
<i>Station No.</i>	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
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: **ROSSDREENAGH STREAM**

06R03

Tributary of: 06P01 PROULES

OS Catchment No: 95

Date(s) of Biological Assessment: N/A

Assessment

Physico-Chemical (2012): WFD Investigative monitoring carried out at Trostan Bridge in 2012. Some slightly elevated nutrient levels on occasion, otherwise water quality is generally satisfactory with no significant change observed compared to 2011. Observed nutrient and BOD levels in 2012 however were significantly lower than those observed in 2009 for example.

<i>Station No.</i>	<i>Station Location</i>	<i>National X</i>	<i>Grid Ref. Y</i>	<i>Discovery Series No.</i>	<i>County Code</i>
0200	Br West of Capragh Lough	286140	305980	35	MN
0300	Corcrin Bridge	286994	304035	35	MN
0400	Trostan Bridge	286533	303274	35	MN

River and Code: **SCOTSTOWN**

03S02

Tributary of: 03B01 BLACKWATER (MONAGHAN)

OS Catchment No: 68

OS Grid Ref of confluence: H 608 369

Date(s) of Biological Assessment: 31/12/1989, 31/12/1993, 31/12/1996, 21/7/1998, 17/7/2001, 18/8/2004, 30/8/2004, 4/7/2007, 5/7/2010

<i>Biological Quality Ratings (Q Values)</i>								
<i>Station Nos.</i>	<i>1989</i>	<i>1993</i>	<i>1996</i>	<i>1998</i>	<i>2001</i>	<i>2004</i>	<i>2007</i>	<i>2010</i>
0200	5	5	5	4-5	4-5	4-5	4-5	4-5
0400	5	4-5	4-5	4	4-5	4	-	4
0500	4-5	4-5	4-5	4-5	4	4	4	4

Assessments

Biological (2010): The macroinvertebrate fauna continues to indicate satisfactory ecological conditions at all stations on the Scotstown Stream in July 2010.

Physico-Chemical (2012): WFD Operational monitoring continued at station 0500, u/s of Scotstown in 2012. River continued to suffer from intermittent pollution in 2012 as the elevated ammonia and

There had been a gradual decline in o-phosphate levels since the beginning of the last decade but in the last 5/6 years this trend has been reversed somewhat. Despite the intermittent pollution events, average nitrate levels have remained reasonably low and constant over the same period.

Station No.	Site Altitude and Upstream Catchment Characteristics (where available):										
	Alt	Area	Sil	Cal	Pasture	Forestry	Bogs	Urban	Misc Ag.	Water	Other
0200	149	4	0	100	5	0	59	0	4	0	32
0400	92	18	0	100	22	1	47	0	17	0	13
0500	73	32	0	100	35	1	28	0	21	0	15

Date(s) of Biological Assessment: 19/9/2007, 6/7/2010

[illegible]

River and Code: **TERMONFECKIN** **06T01**
Tributary of: SEA OS Catchment No: 97
OS Grid Ref of confluence: O 156 804
Date(s) of Biological Assessment: 31/12/1978, 31/12/1983, 31/12/1986, 31/12/1990, 31/12/1994,
31/12/1997, 24/7/2000, 21/8/2003, 27/7/2006, 29/7/2009, 6/10/2011

Assessments

Biological (2011): Continuing unsatisfactory conditions recorded in the Termonfeckin stream in 2011. Poor ecological quality was observed at both sites, characterised by the dominance of pollution tolerant macroinvertebrate taxa.

Physico-Chemical (2012): WFD Operational monitoring carried out at station 0250. Elevated ammonia, o-phosphate, nitrate and BOD levels are indicative of persistent pollution in 2012. If anything, the data suggests a deterioration in water quality compared to 2011.

[illegible]

0250	36	2	100	0	67	0	0	0	33	0	0
0278a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0300	-99	6	100	0	75	0	0	0	25	0	0
0348a	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0350	33	10	100	0	75	0	0	0	25	0	0
0400	15	23	100	0	69	0	0	0	31	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) of Biological Assessment: 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	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	3	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assessments

Biological (2012): 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).

Physico-Chemical (2012): WFD Operational monitoring carried out at stations 0040, 0100 & 0400 with Surveillance monitoring carried out at station 0500. Elevated ammonia, o-phosphate, nitrate and BOD levels on occasion are indicative of intermittent pollution at all stations although the 2012 data suggests significantly inferior water quality d/s of Dunleer.

As regards long term trends, o-phosphate levels have fallen somewhat at all stations with the most significant drop being observed at stations 0400 & 0500. However, levels still remain much too high and the rate of decrease has slowed considerably or even plateaued out. The 10 year trend for nitrate indicates that levels are gradually falling but like o-phosphate, still remain much too high.

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

<i>Site Altitude and Upstream Catchment Characteristics (where available):</i>											
<i>Station No.</i>	<i>Alt</i>	<i>Area</i>	<i>Sil</i>	<i>Cal</i>	<i>Pasture</i>	<i>Forestry</i>	<i>Bogs</i>	<i>Urban</i>	<i>Misc Ag.</i>	<i>Water</i>	<i>Other</i>
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.