

River: **Owensallagh**

Catchment: **Erne**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Br E of Drumcor	0500	NW_36_1161	Good	Good	2009

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'93	Q'97	Q'98	Q'01	Q'04	Q'07	Q'10	Q'13
0500	Br E of Drumcor	5	5	3-4	4-5	4-5	4	4	4
0800	Br SE of Gorteen (on Tributary)	4-5	4	4-5	5	5	4	4	-

MRP results

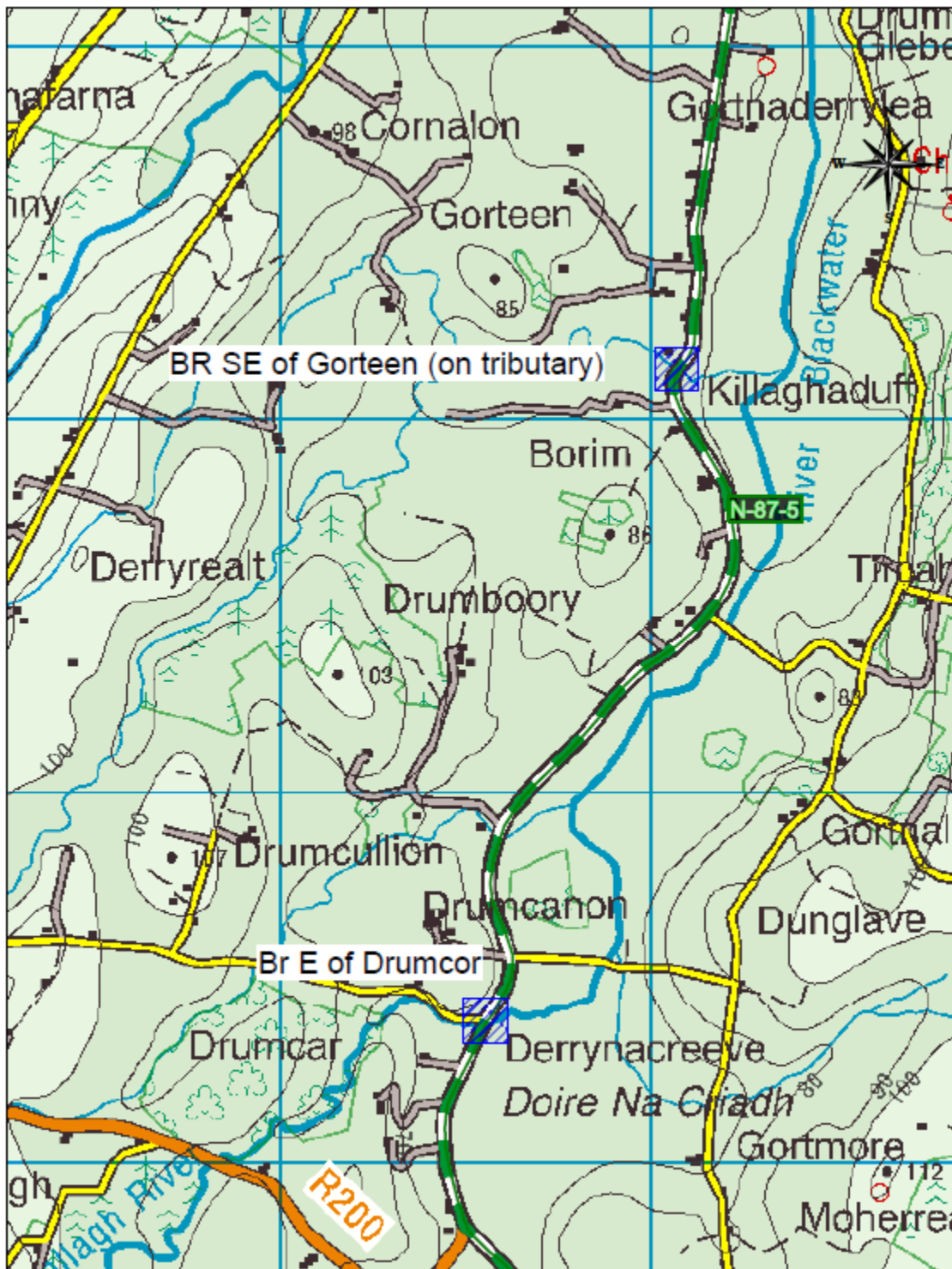
Station	2001 Med (µg P/l)	2002 Med (µg P/l)	2003 Med (µg P/l)	2004 Med (µg P/l)	2005 Med (µg P/l)	2006 Med (µg P/l)	2007 Med (µg P/l)	2008 Med (µg P/l)	2009 Med (µg P/l)	2010 Med (µg P/l)	2011 Med (µg P/l)	2012 Med (µg P/l)	2013 Med (µg P/l)
0500	10	10	10	13	13	15	10	11	10	10	10	10	10
0800												12	12

Assessment

River is in good condition.

Change from 2012

No significant change.



River: **Rag**
 Catchment: **Erne**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Br D/S Clonty	0200	NW_36_550	Good	Good	2009
Br D/S Togher	0400	NW_36_550	Good	Good	2009
Br D/S Aghalane	0500	NW_36_550	Good	Good	2009
Br. Nr Killywilly house	0600	NW_36_1025	Good	Good	2009
Br u/s Tee lough lr	0800	XB_36_east_4	Poor	Good	2021
Bridge d/s Tee lough lr	0900				

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'89	Q'93	Q'97	Q'98	Q'01	Q'04	Q'07	Q'10	Q'13
0200	Br D/S Clonty	-	-	-	-	-	-	-	-	-
0400	Br D/S Togher	-	-	-	-	-	-	-	-	-
0500	Br D/S Aghalane	-	-	-	-	-	-	-	-	-
0600	Br. Nr Killywilly house	3	3	3	-	3-4	3-4	-	3	3
0800	Br u/s Tee lough lr	2-3	3	3	3-4	4	4	4	4	4
0900	Bridge d/s Tee lough lr	3	3	3	-	-	-	-	-	-

MRP results

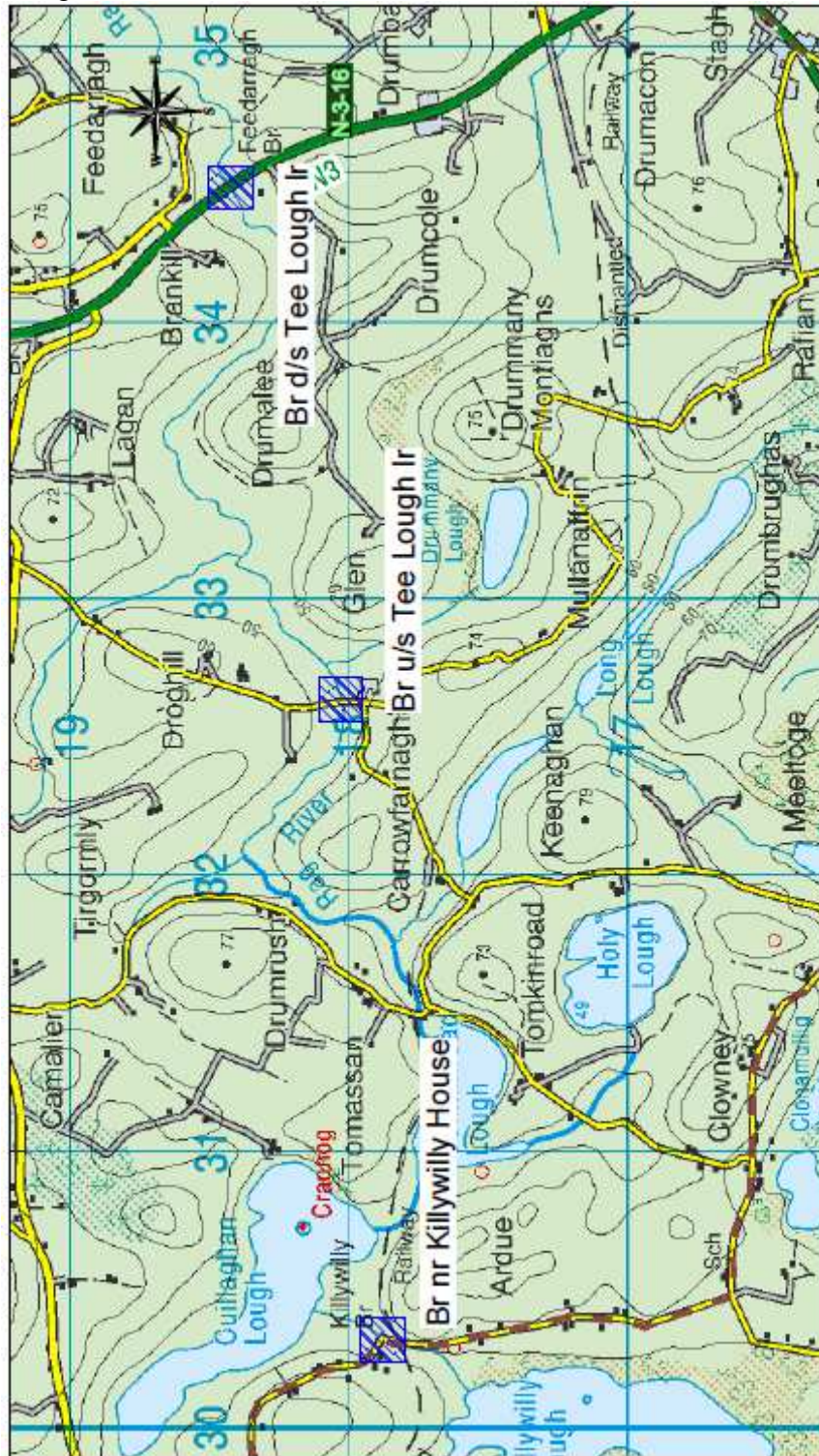
Station	1999 Med (µg P/l)	2000 Med (µg P/l)	2001 Med (µg P/l)	2002 Med (µg P/l)	2003 Med (µg P/l)	2004 Med (µg P/l)	2005 Med (µg P/l)	2006 Med (µg P/l)	2007 Med (µg P/l)	2008 Med (µg P/l)	2009 Med (µg P/l)	2010 Med (µg P/l)	2011 Med (µg P/l)	2012 Med (µg P/l)	2013 Med (µg P/l)
0200	-	24	34	27	38	31	28	27	41	-	-	-	-	-	-
0400	-	30	42	37	41	25	36*	51	44	-	-	-	-	-	-
0500	-	27	34	16	38	23	25	28	42	-	-	-	-	-	-
0600	40	29	44	38	24	29	24	31	42	-	-	-	-	-	-
0800	-	-	40	36	22	20	38	43	43	29	34	35	28	29	34
0900	-	-	26	32	26	29	30	37	57	-	-	-	-	-	-

Assessment

Generally good, however station 0800 is in a poor quality water body.

Change from 2012

No significant change.



River: **Roo**

Catchment: **Erne**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Br. W Barran	0200	NW_36_2114	High	Good	2009
Br SE of Thornhill house	0400	NW_36_2114			

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'93	Q'97	Q'98	Q'01	Q'07	Q'10	Q'13
0200	Br. W Barran	4-5	4	4	5	5	5	5
0400	Br SE of Thornhill house	-	-	3-4	-	-	-	-

MRP results

Station	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med	Med
	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)	(µg P/l)
0200	10	12	10	10	10	10	10	10	10	10	10	10	14	10	10

Assessment

River is in good condition.

Change from 2012

No significant change.



River: **Shannon**

Catchment: **Shannon**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Shannon Br, Derrylahan	0100	SH_26_3539	Moderate	Good	2015
Metal Br. S of Tullynafreave	0200	SH_26_3539	Moderate	Good	2015
Dowra Br	0300	SH_26_3539	Moderate	Good	2015

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'92	Q'96	Q'99	Q'02	Q'05	Q'08	Q'11
0100	Shannon Br, Derrylahan	4	4-5	4	4	4	3-4	4-5
0200	Metal Br. S of Tullynafreave	5	5	4-5	4-5	-	4-5	4-5
0300	Dowra Br	5	4-5	4-5	5	4	4-5	4-5

MRP results

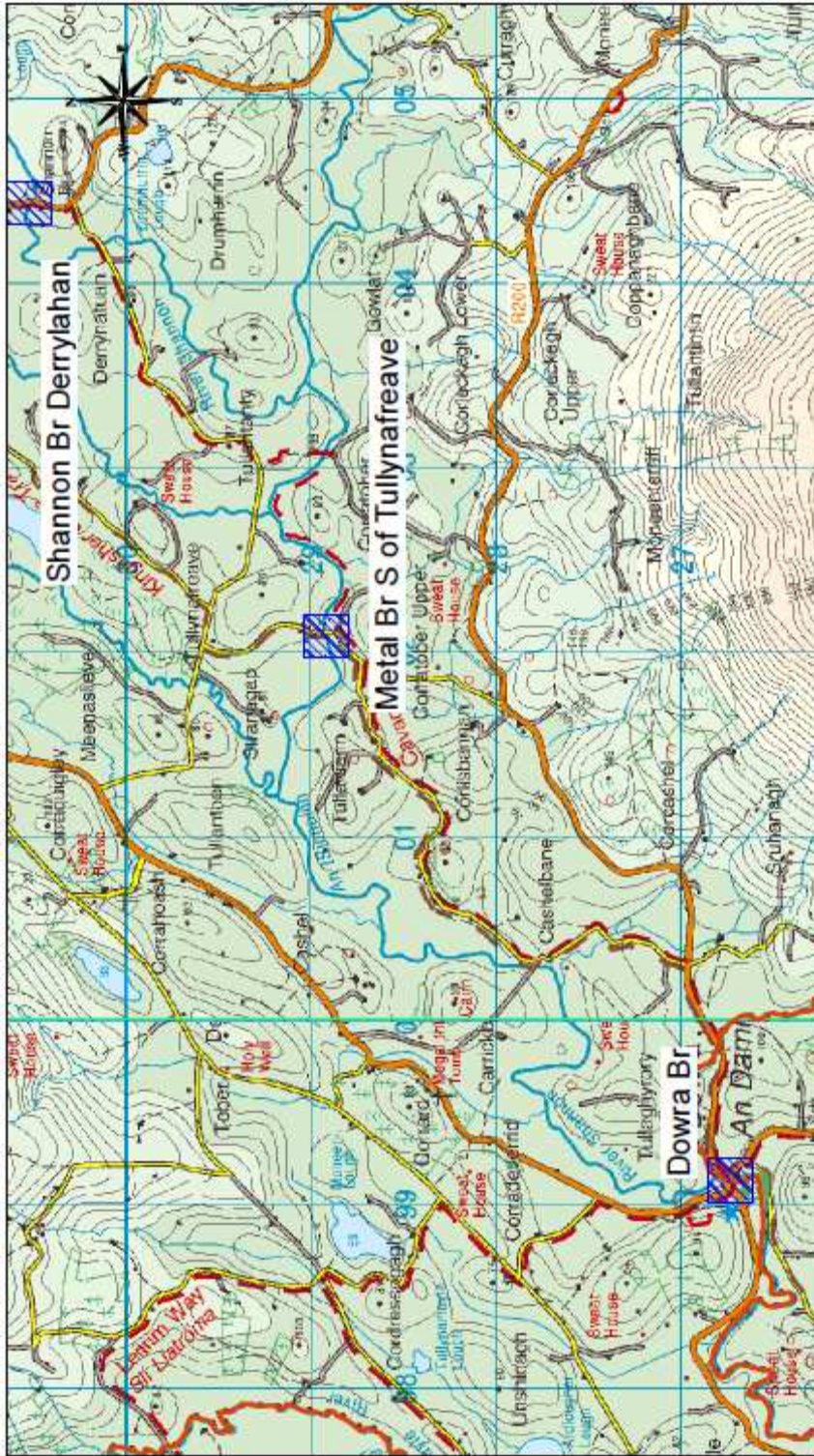
Station	1999 Med (µg P/l)	2000 Med (µg P/l)	2001 Med (µg P/l)	2002 Med (µg P/l)	2003 Med (µg P/l)	2004 Med (µg P/l)	2005 Med (µg P/l)	2006 Med (µg P/l)	2007 Med (µg P/l)	2008 Med (µg P/l)	2009 Med (µg P/l)	2010 Med (µg P/l)	2011 Med (µg P/l)	2012 Med (µg P/l)	2013 Med (µg P/l)
0100	-	-	10	13	10	10	11	10	10	10	10	10	10	10	10
0200	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0300	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Assessment

Moderate status, however chemical results indicate low Phosphorus levels.

Change from 2012

No significant change.



River: Sheelin Feeder Streams

Catchment: Shannon

WFD Status

Station Location		Station Number	Water Body Code	Current Ecological Status Station	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Belsgrove (Ballyheelan) stream	Ballyheelan West Bridge	0100					
Belsgrove (Ballyheelan) stream	Br 1 km S of Ballyheelan (Ballina)	0300					
Belsgrove (Ballyheelan) stream	Belsgrove Bridge	0400					
Crover Stream	Crover Bridge	0600					

MRP results

Station	1999 Med (µg P/l)	2000 Med (µg P/l)	2001 Med (µg P/l)	2002 Med (µg P/l)	2003 Med (µg P/l)	2004 Med (µg P/l)	2005 Med (µg P/l)	2006 Med (µg P/l)	2007 Med (µg P/l)	2008 Med (µg P/l)	2009 Med (µg P/l)	2010 Med (µg P/l)	2011 Med (µg P/l)	2012 Med (µg P/l)	2013 Med (µg P/l)
0100	34	32	37	27	17	21	25	15	29	30	13	15	22	17	19
0300	24	36	22	19	17	26	18	20	34	39	18	19	10	16	27
0400	-	-	-	-	21	31	18	31	26	10	24	33	45	42	30
0600	29	31	57	34	47	61	29	27	33	33	23	26	36	31	23

Assessment

Status has not been assigned under the WFD.

Change from 2012

No significant change.

Note: These Rivers are monitored as part of the councils monitoring programme for Lough Sheelin.

River: **Stradone**

Catchment: **Erne**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
2nd Br. D/s Lisnanagh L	0075	NW_36_245	Good	Good	2009
Br u/s Laragh R confl	0200	NW_36_245	Good	Good	2009

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'93	Q'97	Q'98	Q'01	Q'04	Q'07	Q'10	Q'13
0075	2nd Br. D/s Lisnanagh L	3-4	4	3-4	4	4	-	4	4
0200	Br u/s Laragh R confl	4-5	4	3-4	4	4	4	4	4

MRP results

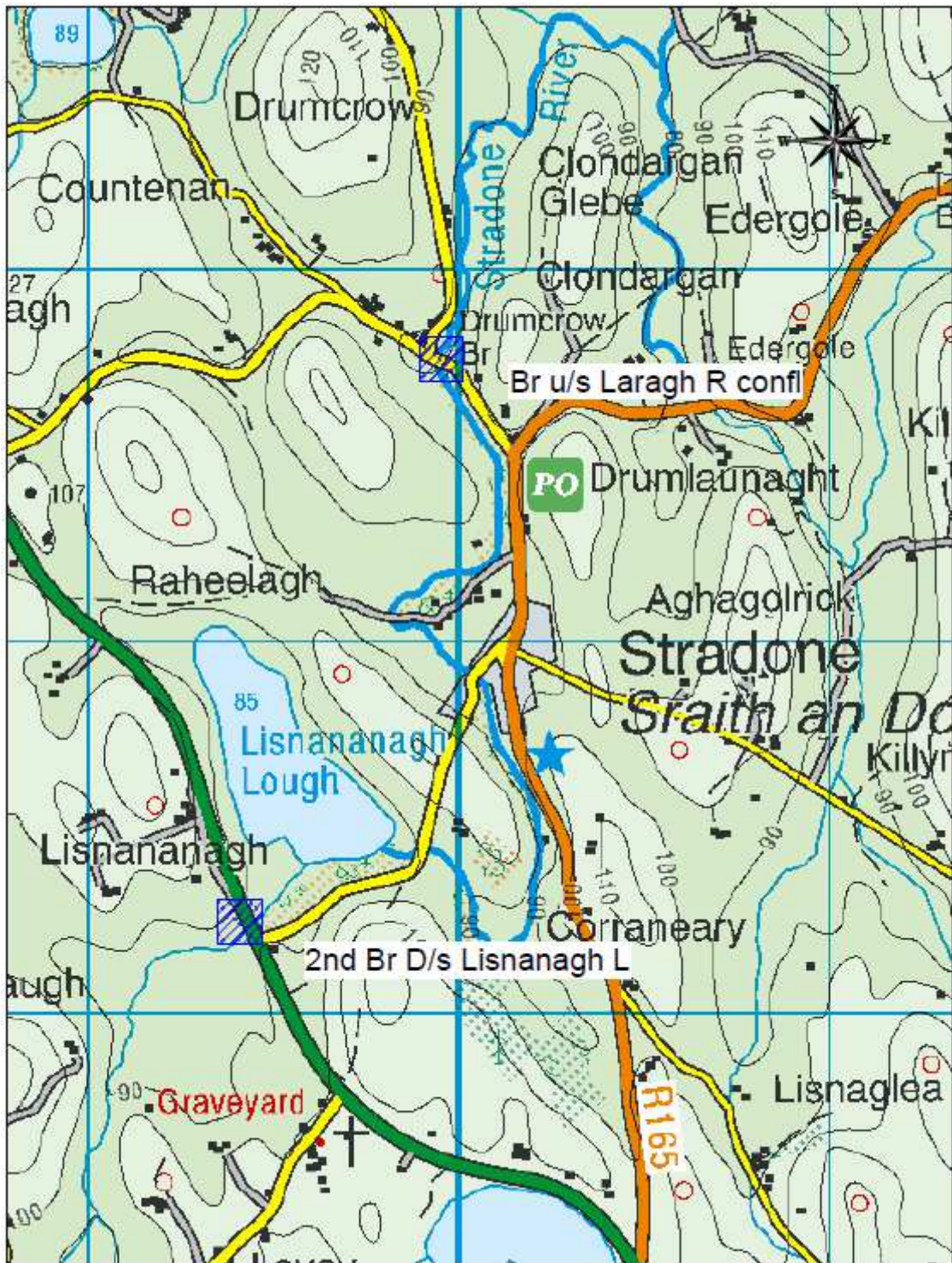
Station	1999 Med (µg P/l)	2000 Med (µg P/l)	2001 Med (µg P/l)	2002 Med (µg P/l)	2003 Med (µg P/l)	2004 Med (µg P/l)	2005 Med (µg P/l)	2006 Med (µg P/l)	2007 Med (µg P/l)	2008 Med (µg P/l)	2009 Med (µg P/l)	2010 Med (µg P/l)	2011 Med (µg P/l)	2012 Med (µg P/l)	2013 Med (µg P/l)
0075	-	-	40	35	26	29	27	23	46	37	10	25	32	32	27
0200	38	38	33	32	27	25	25	23	40	32	17	25	30	33	23

Assessment

Good.

Change from 2012

Some improvement in phosphorous levels.



River: **Swanlinbar**

Catchment: **Erne**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Br. Nr Altbrean	0100	NW_36_18	Good	Good	2015
0.6km d/s Swanlinbar br	0300	NW_36_18	Good	Good	2015

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'93	Q'97	Q'98	Q'01	Q'04	Q'07	Q'10	Q'13
0100	Br. Nr Altbrean	5	5	5	-	4-5	4-5	4-5	4-5
0300	0.6km d/s Swanlinbar br	4-5	4-5	4-5	-	3-4	4	4-5	4-5

MRP results

Station	1999 Med (µg P/l)	2000 Med (µg P/l)	2001 Med (µg P/l)	2002 Med (µg P/l)	2003 Med (µg P/l)	2004 Med (µg P/l)	2005 Med (µg P/l)	2006 Med (µg P/l)	2007 Med (µg P/l)	2008 Med (µg P/l)	2009 Med (µg P/l)	2010 Med (µg P/l)	2011 Med (µg P/l)	2012 Med (µg P/l)	2013 Med (µg P/l)
0100		-	10	10	10	10	10	10	10	10	10	10	10	10	10
0300	14	13	14	13	11	12	14	10	11	10	10	10	10	13	14

Assessment

Good. Chemical results indicate low phosphorus levels.

Change from 2012

No significant change.



River: **Woodford**

Catchment: **Erne**

WFD Status

Station Location	Station Number	Water Body Code	Current Ecological Status RWB	Target Ecological Status RWB	Target Date
Ballyconnell Quay	0400	XB_36_east_5	Good	Good	2009

Sampling Stations and Biological Quality Ratings

Station Number	Station Location	Q'85	Q'89
0400	Ballyconnell Quay	4-5	4

MRP results

Station	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)	Med (µg P/l)
0400	17	12	15	17	11	20	14	12	13	10	10	10	15	20	18

* Baseline Q rating on this station based on '89 Q rating

Assessment

Good.

Change from 2012

No significant change.



4 Lake Water Quality

Lakes are listed in alphabetical order.

Summary Data

Lake name and catchment:

River name and catchment: Included are the lake name and the catchment name (*namely: the Erne, the Boyne, the Shannon and the Glyde*). Sub-catchments and water management units are not listed.

The Lake water body code is given for each lake. The Current Ecological status as defined is given with target ecological status. The target ecological status cannot be lower than Good. A target date for reaching the target ecological status is included for each station.

Annual Status:

This table indicates the annual status of the lake in question and includes

- ◆ Average annual Total P ($\mu\text{g/l}$),
- ◆ Maximum Chlorophyll,

Assessment:

A summary assessment of the water quality is given which is based on the scientific data.

Change from 2012:

Where applicable any significant changes in quality from 2011 are also given.

List of Lakes Monitored

<u>Lake</u>	<u>Catchment</u>
Acurry	Erne
Ardan	Erne
Atrain	Erne
Bawn	Erne
Bunerky	Erne
Culliaghan	Erne
Derrycassan	Erne
Drumkeery	Boyne
Farnham	Erne
Garty	Erne
Glasshouse	Erne
Gowna	Erne
Kinale	Shannon
Mill Lough	Erne
Nadrageel	Boyne
Oughter	Erne
Ramor	Boyne
Lough Sheelin	Shannon
Sillan	Erne
Lough Tacker	Erne

Lake: **Acurry**

Catchment: **Boyne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
EA_07_242	Good	Good	2009

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	10	12
2008	21	10
2009	44	30
2010	31	22
2011	35	233
2012	18	22
2013	31	34

Assessment

Good status, under the RBD classification. Generally good quality trout lake.

Change from 2012

Increase in phosphorous and chlorophyll levels.

Lake: **Annagh**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_517	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	9	24
2008	29	18
2009	44	24
2010	40	14
2011	32	12
2012	14	28
2013	16	12

Assessment

Moderate status, under the RBD classification. Generally good water abstraction lake.

Change from 2012

There is a reduction in maximum chlorophyll levels.

Lake: **Ardan**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_432	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	10	12
2008	21	10
2009	44	30
2010	71	18
2011	39	10
2012	22	32
2013	31	16

Assessment

Moderate status, under the new RBD classification.

Change from 2012

Welcome decrease in maximum chlorophyll levels, but an increase in the phosphorus level recorded.

Lake: **Atrain**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_618	Moderate	Good	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2010	55	24
2011	63	28
2012	58	18
2013	39	24

Assessment

Moderate status, under the RBD classification.

Change from 2012

Decrease in phosphorus levels.

Lake: **Bawn**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_573	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	13	10
2008	41	4
2009	79	6
2010	63	16
2011	53	24
2012	26	6
2013	36	18

Assessment

Moderate status, under the RBD classification.

Change from 2012

Increase in maximum chlorophyll levels and phosphorus.

Lake: **Bunerky**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_624	Moderate	Good	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	29	22
2008	26	10
2009	37	12
2010	34	10
2011	53	12
2012	10	20
2013	18	10

Assessment

Moderate status, under the RBD classification.

Change from 2010

Increase in phosphorus with a reduction in maximum Chlorophyll.

Lake: **Culliaghan**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_385	Moderate	Good	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	22	8
2008	51	6
2009	46	6
2010	87	44
2011	49	8
2012	25	12
2013	27	14

Assessment

Moderate status, under the RBD classification

Change from 2012

No significant change.

Lake: **Derrycasson**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_514	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	14	12
2008	34	12
2009	45	10
2010	34	24
2011	40	12
2012	23	14
2013	22	12

Assessment

Moderate status, under the RBD classification

Change from 2012

No significant change.

Lake: **Drumkeery**

Catchment: **Boyne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
EA_07_268	Poor	Good	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	30	34
2008	65	40
2009	48	16
2010	44	30
2011	100	207
2012	41	121
2013	45	187

Assessment

Poor.

Change from 2012

Significant increase in chlorophyll levels.

Lake: **Farnham**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_618	High	High	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2010	265	260
2011	371	191
2012	103	52
2013	209	268

Assessment

High status, under the RBD classification, however this status is based on extrapolated results and does not appear to accurately reflect the water quality of the lake. Current data indicates that this lake is polluted.

Change from 2012

This lake remains polluted with elevated phosphorus and maximum chlorophyll levels.

Lake: **Garty**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_430	Poor	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	21	10
2008	39	8
2009	44	16
2010	50	181
2011	63	40
2012	102	157
2013	29	24

Assessment

Poor.

Change from 2012

Significant improvement in phosphorus levels and maximum chlorophyll levels.

Lake: **Glasshouse**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_615	Bad	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	15	10
2008	38	22
2009	70	20
2010	42	26
2011	52	36
2012	31	18
2013	37	30

Assessment

Current Bad status is as a result of the macrophyte classification.

Change from 2012

Slight increase in average phosphorus and Chlorophyll.

Lake: **Gowna**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_524	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	61	121
2001	47	107
2002	72	56
2003	76	52
2004	72	125
2005	68	125
2006	60	56
2007	31	48
2008	42	30
2009	53	99
2010	61	137
2011	54	93
2012	34	82
2013	41	149

Assessment
Moderate.

Change from 2012
Increase in maximum chlorophyll levels and phosphorus.

Lake: **Kinale**

Catchment: **Shannon**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
SH_26_430	Moderate	Good	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	28	77
2001	24	56
2002	27	26
2003	28	18
2004	25	6
2005	26	24
2006	17	10
2007	10	10
2008	17	4
2009	20	15
2010	33	8
2011	32	6
2012	10	12
2013	15	28

Assessment

Moderate status, under the new RBD classification, however physicochemical data is good. The water quality of this lake is inextricably linked to the quality of water in Lough Sheelin.

Change from 2012

Increase in maximum chlorophyll levels.

Lake: **Mill Lough**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_597	Moderate	Good	2015

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	7	18
2008	22	28
2009	35	16
2010	62	57
2011	44	12
2012	14	10
2013	29	20

Assessment

Moderate status.

Change from 2012

Increase in maximum chlorophyll levels and phosphorus.

Lake: **Nadrageel**

Catchment: **Boyne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
EA_07_273	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	47	103
2001	47	85
2002	54	118
2003	59	111
2004	64	71
2005	49	50
2006	44	92
2007	31	38
2008	44	40
2009	55	28
2010	61	34
2011	41	22
2012	26	40
2013	33	32

Assessment

Moderate status.

Change from 2012

No significant change

Lake: **Oughter**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_657	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	73	183
2001	64	129
2002	70	494
2003	94	187
2004	101	232
2005**	90	232
2006	82	86
2007	54	92
2008	51	244#
2009	76	62
2010	78	198
2011	76	171
2012	54	163
2013	63	87

Assessment

Moderate status.

Change from 2012

Welcome decrease in Maximum Chlorophyll levels.

Lake: **Ramor**

Catchment: **Boyne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
EA_07_275	Bad	Good	2027

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	67	90
2001	59	92
2002	73	80
2003	100	165
2004	68	75
2005	74	80
2006	92	102
2007	58	83
2008	52	110
2009	70	69
2010	76	36
2011	69	54
2012	39	56
2013	61	81

Assessment

Bad status.

Change from 2012

Increase in maximum chlorophyll levels and phosphorus.

Lake: **Lough Sheelin**

Catchment: **Shannon**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
SH_26_709	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	32	36
2001	23	34
2002	28	32
2003	31	46
2004	32	62
2005*	25	14
2006	25	8
2007	18	24
2008	28	14
2009	26	12
2010	30	4
2011	29	12
2012	16	36
2013	13	14

*includes one sample from January 2006

Assessment

Moderate status.

Change from 2012

Maximum chlorophyll and phosphorus levels are encouraging.

Lake: **Sillan**
Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_528	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2000	77	73
2001	57	50
2002	56	73
2003	66	52
2004	97	62
2005**	103	74
2006	117	68
2007	46	66
2008	79	121
2009	73	54
2010	102	52
2011	100	46
2012	82	96
2013	70	62

** Average and Maximum values calculated over a two year period

Assessment

Moderate.

Change from 2012

Maximum chlorophyll and phosphorus levels have improved

Lake: **Lough Tacker**

Catchment: **Erne**

WFD Status

Lake water body code	Current status	Target Ecological Status	Target Date
NW_36_363	Moderate	Good	2021

Annual status

Year	Average Annual Total P(ug/l)	Maximum Chlorophyll
2007	47	32
2008	69	22
2009	69	16
2010	91	30
2011	94	30
2012	120	102
2013	54	26

Assessment

Moderate status.

Change from 2012

Significant improvement in quality with a reduction in Phosphorous levels and significantly reduced maximum chlorophyll.

