MACRO MONITORING RESULTS

STRATEGY FOR ENVIRONMENTAL SURVEYING AND MONITORING

FOR THE

WILD ATLANTIC WAY OPERATIONAL PROGRAMME

for: Fáilte Ireland

88-95 Amiens Street
Dublin 1



by: CAAS Ltd.

2nd Floor, The Courtyard, 25 Great Strand Street, Dublin 1



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1. Introduction

This document details the results of the Macro Monitoring Study carried out as part of the *Environmental Surveying and Monitoring for the Wild Atlantic Way Operational Programme*. It has been undertaken by CAAS Ltd. on behalf of Fáilte Ireland.

The Strategy for Environmental Surveying and Monitoring was carried out as part of Fáilte Ireland's commitments in the Wild Atlantic Way Operational Programme 2015-2019. A copy of the Operational Programme and associated documents are available on the Fáilte Ireland website.

Other Monitoring includes

- Monitoring and surveying of the activities of visitors at points along the Wild Atlantic Way
- Monitoring and surveying of the ecological effects of visitor activities at points along the Wild Atlantic

The purpose of the monitoring strategy is to ensure that the effects of the implementation of the Operational Programme are understood and acted upon. This will contribute to avoiding delays in identifying existing or emerging activities that could threaten the environment.

The Strategy for Environmental Surveying and Monitoring for the Wild Atlantic Way is intended to describe the existing conditions of sites with a view to:

- contributing to Visitor Management Strategies;
- contributing to future editions of Fáilte Ireland's Wild Atlantic Way Guidelines;
- · identifying remedial action/works required;
- assessing the capacity for future loadings;
- integrating site management with future European Site Management Plans.

The monitoring includes the compilation of relevant regional data that is collected by other agencies as well as site specific data collected on behalf of Fáilte Ireland. Part of this work involves the development of generic monitoring methodologies and templates that may be used across a range of sites and conditions. The monitoring examines individual sites as well as larger-scale and regional indicators.

The macro monitoring element of the surveying as discussed in this document concentrates on long-established, high quality, official baselines that. These *inter alia* measure the seasonal variances in environmental loading caused by visitors at, and around the candidate Discovery Points. These official baselines will describe a number of key performance indicators. These will be combined to identify any emerging trends¹ over time or changes in the state of the environment along the Wild Atlantic Way.

These key performance indicators, which are described in detailed in Table 1.1 over, will be applied to six sites along the Wild Atlantic Way and a further four control sites inland from the route.

The results of these macro monitoring activities will be collated and presented to a Monitoring Group each year- along with results of all other Wild Atlantic Way monitoring activities. This information can be used by relevant members of the Monitoring Group to identify protective, remedial or improvement actions within their own areas of responsibility during the following year. An annual summary of the results of monitoring will be published on the Fáilte Ireland website.

¹ Trends are normally identified by analysing data over time however as this is only the second year of the monitoring programme long term trends are not identifiable as of yet. Any significant changes however from year on year results will be identified to the monitoring group and will continued to be monitored over the life of the monitoring programme to determine if indeed these are trends.

1.1 Methodology

Strand One of the monitoring strategy concentrates on long-established, high quality, official baselines. These measures *inter alia* the seasonal variances in environmental loading caused by visitors - such as water quality, road traffic, Blue Flag Beach conditions and Green Coast Awards.

The use of existing, robust datasets will be combined to identify any emerging trends and changes in a small number of key diagnostic environmental performance indicators. These macro-indicators provide a very high level of coordination for the cumulative impact assessment of other activities. Strategic Environmental Assessment of these plans and policies – at county, regional and sectoral levels utilise the same indicators. This also facilities the isolation of the contribution of tourism though in-combination effects.

The monitoring focuses on intra-urban settlements between gateway towns along the Wild Atlantic Way. Gateways such as Cork and Galway that capture the infiltration of visitors. These also supply the high-level 'input' data for the monitoring before they become dissipated among many smaller destinations and intra-urban settlements (See Figure 1.1). There are 7 monitoring sites and 4 control sites selected to for the purpose of the macro monitoring. Each site is located in the counties situated along the Wild Atlantic Way, the 7 sites are; Dungloe, Bundoran, Newport, Galway Bay, Kilrush, Bantry and Cahersiveen. The 4 control points are; Ballybofey, Gort, Castleisland and Lahinch.

The purpose of macro monitoring is to identify the state of the environment between the gateway settlements because these intra-urban settlements, such as Bundoran in Co. Donegal, often accommodate and entertain the bulk of overnight visitors.

This strategy facilitates the direct identification and assessment, at a high level, of the effects that visitor numbers have on key environmental indicators. These use long-established baselines (from agencies such as the National Roads Authority, Environmental Protection Agency, Department of Environment, Community and Local Government, Department of Arts, Heritage and the Gaeltacht, etc.). It should be noted from the summarised historical overview of tourism and promotion in Section 2.8, that there are no survey areas associated with the Wild Atlantic Way where a meaningful 'baseline' condition exists that has not already been subject to over a century of the effects of tourism and promotion.

1.1.1 Methodology for Macro Monitoring

- Seven sites have been selected along the route one for each county or at the closest available point where regional monitoring is carried out (See Table 1.2). The initial macro monitoring focuses on these seven sites. Future monitoring can be expanded to prioritise other areas in order of sensitivity and significance as directed by a Monitoring Group. The sites will be updated and informed by emerging results.
- 2. A further four control sites inland from the route in Donegal, Clare, Galway and Kerry have also been selected (See Table 1.3). These are also subject to expansion to prioritise other areas in order of sensitivity and significance as directed by a Monitoring Group.
- 3. The sites were selected on the basis that they are primary settlements along the Wild Atlantic Way route which are representative of a range of typical tourism based settlements and where data is readily accessible.

The monitoring points in Table 1.2 and the control points in Table 1.3 were chosen to measure the Monitoring and Technical Indicators shown on Table 1.1. This was based on the settlement meeting a specific criterion whereby datasets presently exist for infrastructure i.e. the settlement has a wastewater treatment plant, a National Roads Authority traffic counter, an Environmental Protection Agency Bathing Water monitoring location at or adjacent to the location. Other settlements were considered but did not meet these criteria.

- 4. The information collected from the existing datasets outlined in Table 1.1 will be combined annually to identify trends and changes in the technical indicators identified for each of the ten monitoring points.
- 5. The results will be presented to identify which trends and changes to technical indicators are directly attributable to tourism. Other intervening factors for example a technical failure at a wastewater treatment plant which are not attributable to tourism will also be highlighted. This will result in the ongoing review of indicators and targets, collating existing relevant monitored data, the preparation of monitoring evaluation report(s), the publication of these reports and, if necessary, the carrying out of corrective action.
- 6. If the results that show that visitor activity and/or visitor intensification is predicted or identified to result in a negative impact on the environment in particular locations, then recommendations will be made depending on the outcome and as directed by a Monitoring Group.



Figure 1.1 Macro Monitoring Locations

Factor	Technical Indicator	Monitoring	Authority/Source	Frequency	
Water Quality	Non-conformities with relevant legislative requirements in Waste Water Treatment data available from licensed facilities (Waste Water Treatment Plants and Agglomerations) Conformance with legislative requirements at the closest bathing water monitoring site	Non-conformances relating to minimum water quality standards and the licenced Population Equivalent (P.E) loading for the WWTP will be examined. Where a non-conformance is identified, the EPA collects and details information on the reason for failure. Persistent effects that is attributable to tourism i.e. overloading of treatment capacity resulting in failure to meet minimum requirements in summer months as a result of high visitor numbers. Non-conformances related to a relevant intervening factor, such as mechanical/technical issues, will be noted. Non-conformances relating to minimum bathing water quality standards and legislative Coastal Water Quality status will be assessed	Environmental Protection Agency (EPA)	Annual	
Traffic Volume	Upward/downward trend in traffic volumes during tourist season and shoulder seasons	Assessment of National Roads Authority traffic counters adjacent to chosen sites and along the Wild Atlantic Way route where year-round statistics are collected.	National Roads Authority (NRA)	Annual	
		Assessment of Local Authority data from intermittent monitoring of regional and local road traffic (where available). Regional and local roads comprise of 75% of the Wild Atlantic Way Route.	Local Authorities		
Blue Flag Beaches and Marinas	Upward/downward trend in award/status	Assessment of the number of annual Blue Flag Beach status being retracted/awarded at the closest bathing water.	An Taisce	Annual	
National Green Coast Award		Assessment of the number of National Green Coast Awards being retracted/awarded at the closest bathing water.			
State of Knowledge Ireland's Biodiversity Report (2010) Changes in the status of biodiversity		The status of this indicator be informed and updated by emerging findings and information sources from Biodiversity Reports.	National Biodiversity Centre	Occasional	
EPA Ireland's Environment - An	Changes in environmental status along the Wild Atlantic Way	The status of this indicator be informed and updated by emerging findings and information sources from this report.	Environmental Protection Agency (EPA)	Every 4 Years	

Factor	Technical Indicator	Monitoring	Authority/Source	Frequency	
Assessment (2012)					
The status of EU Protected Habitats	Changes in the status of EU Protected Habitats and Species in	The status of this indicator be informed and updated by emerging findings and information sources from the National	National Parks and Wildlife Service (NPWS)	Occasional	
and Species in Ireland	Ireland	Parks and Wildlife Service and other stakeholders on the status of EU Protected Habitats and Species.	Department of Environment, Community and Local Government (DECLG)		
			Department of Agriculture, Heritage and the Gaeltacht (DAHG)		
Visitor Numbers	Changes in Fáilte Ireland data on visitor numbers	Upward/downward trends in visitor numbers during the tourist season and shoulder season.	Fáilte Ireland	Annual	
Tourism related planning refusals	Refusals of unsuitable tourism related projects by County	Applications to An Bord Pleanála will provide an official high level indicator as to where pressure points are occurring in Counties along the Wild Atlantic Way without the need to capture all planning applications to Local Authorities and or Foreshore Lease/Licence applications to the Department of Environment, Community and Local Government. A high level of tourism related refusals is a potential indicator pressure on the environmental status of said County. Record trends in tourism related applications.	An Bord Pleanála	Annual	

Table 1.1 Macro Monitoring Indicators

County	Monitoring Point	National Roads Authority Traffic Counter	WWTP Licence No.	WWTP/Agglomeration	Bathing Water Monitoring Site	
Donegal	Dungloe	N56 Between Dungloe and R252 Jn, Co. Donegal (20562)	D0208-01	Dungloe	Naran Beach/Carrickfinn	
Donegal (Sligo Border)	Bundoran	N15 Between Bundoran and Sligo, Tullaghan, Co. Leitrim (20153)	D0130-01	Bundoran/Mullaghmore /Cliffony	Bundoran/Mullaghmore	
Мауо	Newport	N59 Between Mullranny and Newport, Newfield, Co. Mayo (20591)	D0224-01	Mallaranny	Mulranny/Clare Island/Bertra	
Galway	Galway Bay	N18 Between Kilcolgan and Clarinbridge, Co. Galway (1182)	D0050-01	Galway Mutton Island	Silverstrand/Salthill/Grattan Road/Ballyloughane	
Clare	Kilrush	N67 Between Kilrush Ferry and Kilrush, Moyne Court, Co. Clare (1671)	D0075-01	Kilrush Agglomeration	Cappagh Pier	
Kerry	Cahersiveen	hersiveen N70 Between Caherciveen and Glenbeigh, Gortaforia, Co. Kerry (20701)		Cahersiveen/Knightstown	Whitestrand	
Cork	Bantry	N72 Between Bantry and Glengarriff, North of Bantry, Co. Cork (1715)	D0168-01	Bantry	Barley Cove	

Table 1.2 Macro Monitoring Points

County	Control	National Roads Authority Traffic Counter	WWTP Licence No.	WWTP/Agglomeration	Bathing Water Monitoring Site
Donegal	Ballybofey	N13 Between Stranorlar and Letterkenny, Treantaboy, Co. Donegal (1133)	D0120-01	Ballybofer/Stranlorlar	N/A
Galway	Gort	N18 Between Kilcolgan and Clarinbridge, Co. Galway (1182)	D0195-01	Gort	N/A
Kerry	Castleisland	N21 Between Tralee and Castleisland, Co. Kerry (1211)	D0180-01	Castleisland	N/A
Clare	Lahinch	N67 Between Ennistimon and Lisdoonvarna, Co. Clare (20671)	D0080-01	Lahinch	Lahinch

Table 1.3 Macro Monitoring Control Sites

2. Presentation of Results and Analysis

2.2 Macro Indicator 1- Water Quality

'Water Quality' was the first macro-indicator of environmental status to be examined at each of the monitoring points outlined in Table 1.2, and control sites outlined in Table 1.3. The 'Water Quality' indicator is broken into two sub-indicators: Wastewater treatment plant/Agglomeration operational status, and Bathing Water Status.

Wastewater treatment plant/ agglomeration operational status

This macro-indicator can be used to identify persistent effects on Water Quality that is attributable to tourism i.e. overloading of treatment capacity resulting in failure to meet minimum requirements in summer months as a result of high visitor numbers.

In order to determine the operational status of each of the wastewater treatment plants/agglomerations associated with each of the established monitoring and control points, the Annual Report of each of the EPA licenced facilities below was reviewed. A number of parameters related to the operational status of each facility were assessed under the headings outlined in Tables 2.1 and 2.2 below. Non-conformances relating to minimum water quality standards and the licenced Population Equivalent (P.E) loading for the WWTP were examined. Where a non-conformance was identified, the reason for failure was detailed.

The numbers of complaints made to each facility during the year 2015, as well as the number of reported incidents were noted. Any improvements or upgrades made to any of the facilities during the year ending 2015 were summarised.

This data should be reviewed and compared annually in order to identify any upwards or downwards trends in the operational status of the wastewater treatment plants/agglomerations at the monitoring and control points which might be attributable to tourism. For example, continuous exceedances in ELV's over consecutive years might indicate that a wastewater treatment plant/agglomeration is serving more than the population equivalent which it was intended. This might suggest high visitor numbers at the monitoring and control point locations.

Monitoring Point	WWTP Licence No.	WWTP/ Agglomeration	Status of conformity	Reasons for non- conformity	Complaints and Reported Incidents	Population Equivalent	Improvements	
Dungloe	D0208-01	Dungloe	Primary Discharge Point parameters exceeded		0 complaints, 6 Reported Incidents	2,400	The Dungloe Sewerage Scheme has been included in the Irish Water Capital Investment Programme for 2014-2016. This includes: • Design and construction of a new wastewater treatment plant and outfall pipes to receiving waters. • New pumping stations and detention tanks. • New rising mains from pumping stations and gravity outfall pipe. • Design and construction of rehabilitation works for existing gravity pipelines	
Bundoran	D0130-01	Bundoran/ Mullaghmore/ Cliffony	The final effluent from the Primary Discharge Point was non-compliant with the Emission Limit Values in 2015.	The following parameters exceeded the emission limit values in 2015: - • cBOD • COD • Suspended solids • Ammonia	No complaints, 36 Reported Incidents	2,000	There were no major capital or operational changes undertaken in 2015	
Newport	D0224-01	Mallaranny	The final effluent from the Primary Discharge Point was non-compliant with the Emission Limit Values in 2015	The following parameter exceeded the emission limit value in 201The following parameter exceeded the emission limit value in 2015: • Total Phosphorus	No Complaints, 1 Reported Incident	1,287	No major capital or operational changes undertaken in 2015.	
Galway Bay	D0050-01	Galway Mutton Island	The final effluent from the Primary Discharge Point	N/A	50 Complaints, 5 Reported Incidents	91600	No major capital or operational changes undertaken in 2015	

			was compliant with the Emission Limit Values in 2015				
Kilrush	D0075-01	Kilrush Agglomeration.	Monitoring data relating to influent flow, or discharges to the receiving waters are not available. It is not possible to state whether the final effluent is compliant with the Emission Limit Values in 2015.	N/A	1 complaint, 0 reported incidents	4640	There was no major capital or operational changes undertaken in 2015.
Cahersiveen	D0181-01	Cahersiveen/ Knightstown	The final effluent from the Primary Discharge Point was compliant with the Emission Limit Values in 2015.	N/A	1 Complaint, 0 Reported Incidents	5600	There was no major capital or operational changes undertaken in 2015.
Bantry	D0168-01	Bantry	The final effluent from the Primary Discharge Point was compliant with the Emission Limit Values in 2015.	N/A	0 Complaints, 1 Reported Incident	6000	There were no major capital or operational changes undertaken in 2015

Table 2.1 WWTP/Agglomeration Status at Monitoring Points

Control	WWTP Licence No.	WWTP/Aggl omeration	Status of conformity	Reasons for non- conformity	Complaints and Reported Incidents	Population Equivalent	Improvements
Ballybofey	D0120-01	Ballybofer/ Stranlorlar	The final effluent from the Primary Discharge Point was compliant with the Emission Limit Values in 2015.	N/A	9 complaints, 1 reported incident	4000	There was no major capital or operational changes undertaken in 2015.

Gort	D0195-01	Gort	The final effluent from the Primary Discharge Point was non-compliant with one of the Emission Limit Values in 2015.	The following parameter exceeded the emission limit values in 2015:- • Ammonia	0 complaints, 1 (11 individual results submitted) reported incident	4310	There was no major capital or operational changes undertaken in 2015.
Castleisland	D0180-01	Castleisland	The final effluent from the Primary Discharge Point was compliant with the Emission Limit Values in 2015.	N/A	0 complaints, 3 reported incidents	6,000	There was no major capital or operational changes undertaken in 2015.
Lahinch	D0080-01	Lahinch	The final effluent from the Primary Discharge Point was non-compliant with the Emission Limit Values in 2015.	The following parameters exceeded the emission limit values in 2015: - • cBOD • COD • Suspended solids • Total Phosphorus • Total Nitrogen • Ammonia	0 complaints, 1 reported incidents	8400	There were no major capital or operational changes undertaken in 2015.

Table 2.2 WWTP/Agglomeration Status at Control Sites

The results show that of the 7 monitoring points and 4 control points examined for this study, 5 (Castleisland, Ballybofey, Bantry, Cahersiveen and Galway Mutton Island) wastewater treatment plants/ agglomerations were compliant with Emission Limit Values in 2015, this shows that there has been an improvement from 2014 which recorded only 2 plants (Castleisland and Ballybofey) complying with the Emission Value Limit. (Reasons for non-compliance were regularly attributable to exceedances in permitted ELV's of ammonia and other substances. Non-compliance with ELV's at wastewater treatment plants could suggest that the facilities are serving over-populated catchment areas. Population numbers from 2014 to 2015 stayed generally the same, which did not seem to cause any more significant issues with compliance to the ELV. Increased visitor numbers to the monitoring points and control sites along the Wild Atlantic Way during the summer months could be putting pressure on these wastewater treatment facilities, resulting in breaches in annual ELV's.

4 of the named facilities received complaints during the year 2015, and 9 of the sites reported incidents to the EPA.

1 of the 11 wastewater treatment plants/agglomerations examined for this study had improvements or upgrades made to the facilities during the year 2015.

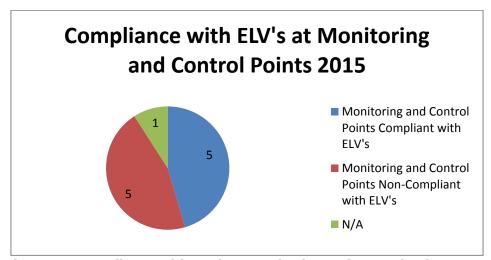


Figure 2.1 Compliance with ELV's at Monitoring and Control Points 2015

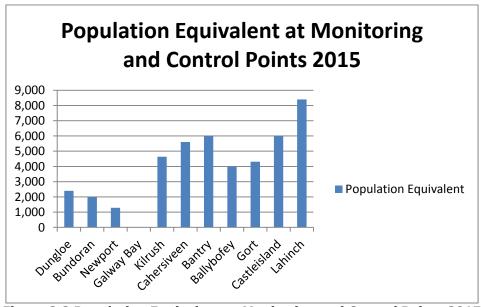


Figure 2.2 Population Equivalent at Monitoring and Control Points 2015

Bathing water status

The second aspect of the technical indicator 'Water Quality' involved the inspection of the bathing water status of each of the chosen settlements. This was done by comparing each of the monitoring points and control sites against its associated Bathing Water Profile, as documented on the website 'Splash' -the EPA run national bathing water information website. The 2015 Bathing Water status of each monitoring point and control site was noted, as well as any reason for non-conformity with legislative coastal water quality status, and days restricted by any short-term pollution. The bathing water status of a site is noted as being 'excellent,' 'good' 'sufficient' 'poor', or having 'no data.'

The results of this monitoring indicator should be reviewed and compared annually in order to determine upwards or downwards trends in bathing water quality. Continuous recordings of 'poor' or 'sufficient' water quality might indicate tourism related pollution of bathing waters.

County	Monitoring Point	Bathing Water Monitoring Site	Bathing Water Status 2015	Reason for non-conformity	Days restricted by Short term pollution		
Donegal	Dungloe	Naran Beach/Carrickfinn	Excellent/ Excellent		0		
Donegal (Sligo Border)	Bundoran	Bundoran/Mullaghmore	Excellent/ Excellent		0		
Мауо	Newport	Mulranny/Clare Island/Bertra	Excellent/Excellent		0		
Galway	Galway Bay	Salthill/Grattan Road/Ballyloughane	Excellent/ Sufficient/ Poor	 Grattan Road Beach, 'Sufficient' status- based on the assessment of bacteriological results for the period 2011 to 2014 Ballyloughane Beach, 'Poor' status based on the assessment of bacteriological results for the period 2011 to 2014 	0		
Clare	Kilrush	Cappagh Pier	Excellent		0		
Kerry	Cahersiveen	Whitestrand	Excellent		0		
Cork	Bantry	Barley Cove	Excellent		0		

Table 2.3 Bathing Water Status at Monitoring Points

County	Control	Bathing Water Monitoring Site	Bathing Water Status 2015	Reason for non-conformity	Days restricted by Short term pollution		
Donegal	Ballybofey N/A		N/A	N/A	N/A		
Galway	Gort	N/A	N/A	N/A	N/A		
Kerry	Castleisland	N/A	N/A	N/A	N/A		
Clare	Lahinch	Lahinch	Excellent	N/A	0		

Table 2.4 Bathing Water Status at Control Points

14 'Bathing Water Monitoring Sites' at 7 of the established monitoring points and control sites along the Wild Atlantic Way were examined. Please note that some of these sites are associated with more than one EPA 'bathing water monitoring site' and thus have more than one definitive 'bathing water status.' Some of the monitoring points and control sites along the Wild Atlantic Way are not associated with any EPA 'bathing water monitoring sites', and thus the 'bathing water status' of these sites cannot be determined.

Of the 14 bathing water monitoring sites examined, 12 were found to have 'Excellent' bathing water status. According to the Bathing Water Regulations, 2008, and as referenced by 'Splash';

"Bathing waters are to be classified as "excellent":

- 1. if, in the set of bathing water quality data for the last assessment period, the percentile values for microbiological enumerations are equal to or better than the "excellent quality" values set out in Schedule 4, column B; and
- 2. if the bathing water is subject to short-term pollution, on condition that:
 - (i) Adequate management measures are being taken, including surveillance, early warning systems monitoring, with a view to preventing bathers' exposure, by means of warning or, where necessary, a bathing prohibition;
 - (ii) Adequate management measures are being taken to prevent, reduce or eliminate the causes of pollution; and
 - (iii) the number of samples disregarded in accordance with Regulation 7(4) because of short-term pollution during the last assessment period represented no more than 15% of the total number of samples provided for in the monitoring calendars established for that period, or no more than one sample per bathing season, whichever is the greater.

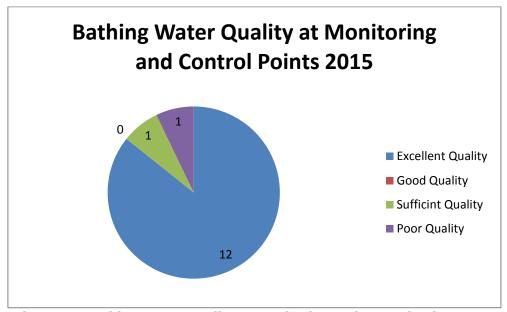


Figure 2.3 Bathing Water Quality at Monitoring and Control Points 2015

2.3 Macro-Indicator 2- National Roads Authority Traffic Counter

The monitoring and technical Indicator 'NRA Traffic Counter' was applied to each of the monitoring points outlined in Table 1.2, and control points outlined in Table 1.3. This involved the assessment of traffic counts on roads adjacent to chosen sites and along the Wild Atlantic Way for the year ending 2015.

The Transport Infrastructure Ireland's (TII) 'Traffic Data' website presents data collected from the TII traffic counters located on the National Road Network. The Website uses a dynamic mapping interface to allow the User to access data in a variety of report formats. The Monthly summary data available on the 'Traffic Data' website was examined and both the workday and weekday average interval traffic volumes for 24hr periods were noted for each month in 2015. This data can be reviewed and compared each year to identify upward or downwards trends in traffic volumes during tourist season and shoulder seasons.

County	Monitoring Point	National Roads Authority Traffic Counter	Jan	Feb	March	April	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Donegal	Dungloe	loe N56 Between Dungloe and R252 Jn, Co.	2757	2585	2632	2905	2920	2967	3373	3391	2920	2720	2635	2457
		Donegal (20562)	2368	2585	2496	2754	2776	2851	3300	3237	2748	2572	2496	2300
Donegal (Sligo	and Sligo, Tullaghan	N15 Between Bundoran and Sligo, Tullaghan, Co.	6240	6728	7153	7100	7790	8113	9180	9420	7972	7280	6876	2035
Border)		Leitrim (20153)	5977	6861	7274	7268	7876	8151	9082	9542	9806	7452	7179	2334
Мауо	Newport	N59 Between Mullranny and Newport, Newfield, Co. Mayo (20591)	2403	2566	2967	2969	3219	3521	4114	4349	3192	2900	23675	2370
			2360	2622	2994	2984	3254	3583	4159	4392	2235	2903	2748	2313
16772Gal way	Galway Bay	N18 Between Kilcolgan and Clarinbridge, Co.	15756	17519	17583	18984	20132	20132	21415	21859	20636	19769	18729	17576
		Galway (1182)	16517	18209	18096	19736	19457	19457	20592	21087	19742	18933	17926	16772
Clare	Kilrush	N67 Between Kilrush Ferry and Kilrush, Moyne	1184	1314	1335	1456	1791	1732	2166	2466	1776	1467	1316	1158
		Court, Co. Clare (1671)	1064	1180	1213	1364	1681	1643	2022	2305	1650	1369	1194	1051
Kerry	Cahersiveen	N70 Between Caherciveen and	1802	1968	2097	2612	2781	3030	3779	4049	2941	2510	2029	2033

		Glenbeigh, Gortaforia, Co. Kerry (20701)	1718	1867	2075	2572	2772	3075	3775	4008	2888	2441	1987	1871
Cork	Bantry	N72 Between Fermoy and Ballyhooley,	2485	2745	3089	3229	2942	2854	2900	2915	2868	2872	2778	2539
		Castlehyde, Co. Cork (1715)	2354	2585	2909	3167	2816	2769	2787	2824	2712	2756	2584	2401

Table 2.5 NRA Traffic Count at Monitoring Points

County	Control	National Roads Authority Traffic Counter	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Donegal	Dnegal Ballybofey N13 Between Stranorlar and Letterkenny, Treantaboy, Co. Donegal (1133)	and Letterkenny, Treantaboy, Co. Donegal	8050	9286	9335	9744	9934	9701	10146	10307	9988	9943	9575	9177
		8486	9926	9780	10350	10441	10085	10741	10893	10839	10423	10171	9768	
Galway	Galway Gort N18 Between Kilcolgan and Clarinbridge, Co. Galway (1182)	15756	17519	17583	18984	19851	79457	20592	21087	19742	18933	17926	16772	
			16517	18209	18096	19736	20712	20132	21475	21859	20636	19676	18729	17576
Kerry	Castleisland N21 Between Tralee and Castleisland, Co. Kerry (1211)	7926	8643	8781	9362	9405	9346	9891	10229	9319	9445	9182	8721	
		8254	9110	9120	9683	9752	9551	10271	10524	9813	9897	9616	9162	
Clare	and Lisdo	N67 Between Ennistimon and Lisdoonvarna, Co. Clare(20671)	1660	1852	1976	2223	2461	2600	2822	2999	2634	2217	1856	1876
			1745	1950	2043	2223	2490	2635	2910	3074	2405	2266	1971	2021

Table 2.6 NRA Traffic Count at Control Points

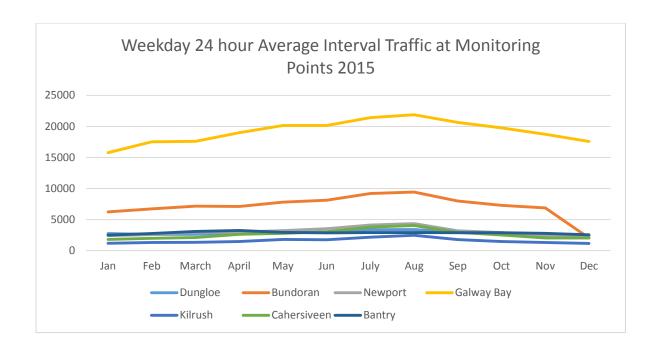


Figure 2.4 Weekday 24-hour average interval traffic at monitoring points 2015

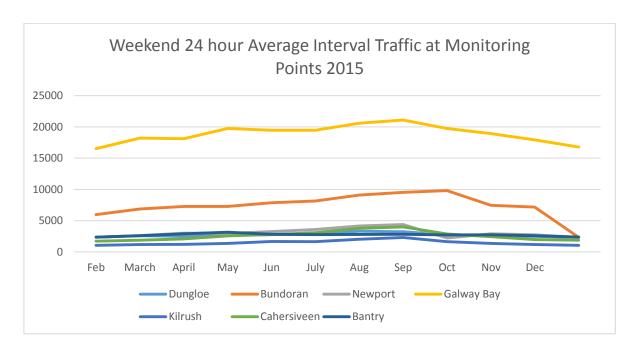


Figure 2.5 Weekday 24-hour average interval traffic at monitoring points 2015

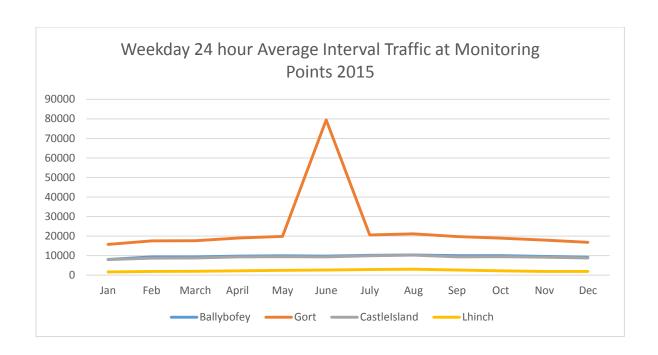


Figure 2.6 Weekday 24 hour average interval traffic at monitoring points 2015

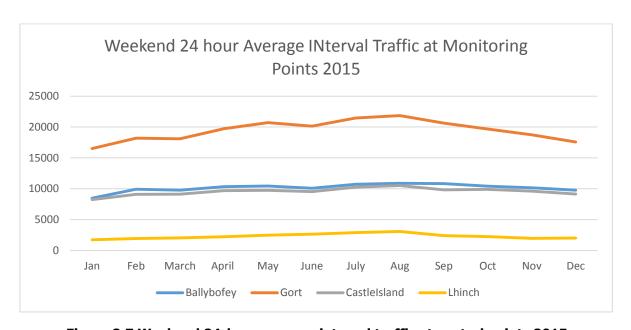


Figure 2.7 Weekend 24-hour average interval traffic at control points 2015

The results of this macro indicator show that in 2015 there was an increase in 24-hour average interval traffic volumes during both weekends and weekdays, at all monitoring and control points during the summer months. This increase in average interval traffic at the monitoring points and control sites examined is likely attributable to an influx of tourists (domestic and foreign) travelling to and from the Wild Atlantic Way sites during the summer months.

2.4 Macro-Indicator 3- Blue Flag Beaches

The monitoring and technical Indicator 'Blue Flag Beaches' was applied to each of the monitoring points outlined in Table 1.2, and control points outlined in Table 1.3. The Blue Flag is operated in Ireland by An Taisce on behalf of the Foundation for Environmental Education (FEE). Beaches and marinas that achieve this accolade must comply with a specific set of criteria relating to water quality, information provision, environmental education, safety and beach management. At beaches the bathing water must comply with the excellent standard in accordance with the EU Bathing Water Directive. The 'Blue Flag Beaches' locations map, as available on An Taisce's 'Blue Flag Beaches' website was examined against the list of the established monitoring and control points. All those monitoring and control points that have been awarded 'Blue Flag' status in the year 2015 were noted, as indicated in Tables 2.7 and 2.8 below.

County	Monitoring Point	Blue Flag
Donegal	Dungloe	N
Donegal (Sligo Border)	Bundoran	Υ
Мауо	Newport	N
Galway	Galway Bay	N
Clare	Kilrush	N
Kerry	Cahersiveen	N
Cork	Bantry	N

County	Control Site	Blue Flag
Donegal	Ballybofey	N
Galway	Gort	N
Kerry	Castleisland	N
Clare	Lahinch	Y

Table 2.7 Blue Flag Beaches at Control Sites

Table 2.8 Blue Flag Beaches at Monitoring Points

Of the 11 beaches examined at the established monitoring and control points, 2 of the beaches had been awarded 'Blue Flag' status in 2015. This has remained the same as the status recorded in 2014. These were Bundoran beach and Lahinch beach.

2.5 Macro Indicator 4- Green Coast Award

The monitoring and technical Indicator 'Green Coast Award' was applied to each of the monitoring points outlined in Table 1.2, and control points outlined in Table 1.3. The Green Coast Awards is an An Taisce award for beaches that meet the excellent standard for water quality as set out in the Bathing Water Directive but may not have the necessary built infrastructure to achieve Blue Flag status. An important element of this award is that these beaches have a beach management plan in place and that the local community are engaged in this process. The 'Green Coast' locations map as accessed via An Taisce's 'Clean Coasts' website was examined against the list of the above-mentioned monitoring and control points. All those monitoring and control points that had 'Green Coast' status in the year 2015 were noted, as indicated in Tables 2.9 and 2.10 below.

1.5.1 Green Coasts at Monitoring Points

County	Monitoring Point	Green Coast
Donegal	Dungloe	N
Donegal (Sligo Border)	Bundoran	N
Мауо	Newport	N
Galway	Galway Bay	N
Clare	Kilrush	N
Kerry	Cahersiveen	N
Cork	Bantry	N

1.5.2 Green Coasts at Control Points

County	Control Site	Green Coast
Donegal	Ballybofey	N
Galway	Gort	N
Kerry	Castleisland	N
Clare	Lahinch	N

Table 2.9 Green coasts at control sites

Table 2.10 Green Coasts and Monitoring Points

Of the 11 monitoring and control points examined, none held an An Taisce 'Green Coast Award' in 2015, results recorded from the 2014 report also show that none of the control points held a Green Coast Award during the year 2014.

2.6 Monitoring Indicator 5- State of Knowledge of Irelands Biodiversity

This general monitoring indicator is common to all of the above-mentioned monitoring and control points. In 2012 the National Biodiversity Data Centre produced a document entitled 'State of Knowledge- Irelands Biodiversity 2012.' It is the first inventory of the principal sources of biodiversity data in the Republic of Ireland. The document is laid out in sections following taxonomic grouping. Each section follows the same format and provides information on; Irish species, number of species, primary sources of distribution data, National conservation assessment, and monitoring or repeat surveys in place. The status of this indicator can be informed and updated by emerging findings and information sources from Biodiversity Reports.

For monitoring purposes, the National Biodiversity Centre Annual Review was examined in order to inform on the State of Knowledge of Irelands Biodiversity for the year ending 2015. The following 2015 parameters were noted: Species Numbers, Datasets, Habitats and Recorded Users of Biodiversity Maps- the online data portal, as indicated in Table 2.11 below. Annual Review publications can be examined hereafter in order to assess any upward or downward trends in the state of knowledge of Irelands Biodiversity.

State of Knowledge Ireland's Biodiversity Report (2010) -National biodiversity Centre Annual Review	Species Numbers 2015	Records of Spec	cies 2015	Datasets of Species 2015	National surveys of EU protected Habitats 2015	Recorded users of Biodiversity Maps
	15,300	Total	3.7 million	116	8	168,368
		Birds	31%			
		Insects	15%			
		Cryptograms	8%			
		Other Invertebrates	5%			
		Higher Plants	41%			
		Others	4%			

Table 2.11 National Biodiversity Centre Annual Review 2015 data

The National Biodiversity Centre Annual Review shows a notable rise in both numbers of species, and records and datasets of species in 2015. The National Biodiversity Data Centre has continued its work of collating empirical data and growing the national biodiversity database. This database now contains 3.7 million records from 116 datasets. Data on 15,300 species, which is almost half of all known Irish species, is available to map through the on-line data portal Biodiversity Maps. The only major change from 2014 is the larger percentage of bird records, thanks to the inclusion of almost 0.5 million bird records from the Bird Atlas 2017-11 dataset, provided by BirdWatch Ireland.

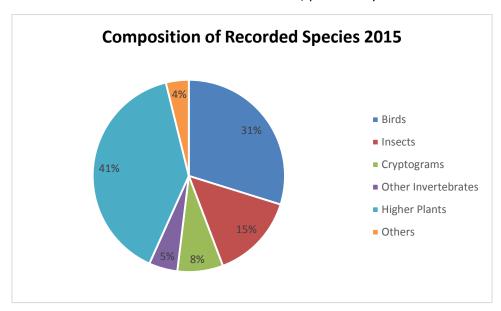


Figure 2.8 Composition of recorded species 2015

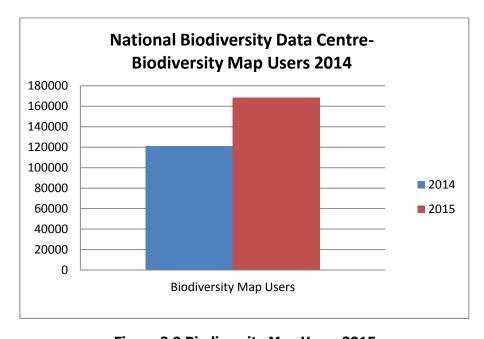


Figure 2.9 Biodiversity Map Users 2015

2.7 Monitoring Indicator 6- EPA Ireland's Environment - An Assessment (2016)

This general monitoring indicator is common to all of the above-mentioned monitoring and control points. Ireland's Environment 2016 – An Assessment, is the Environmental Protection Agency's four-yearly state of the environment report. It provides an evidence-based assessment of the current state of the environment in Ireland and the pressures being placed on it. It outlines the trends and changes in environmental quality as well as the socio-economic activities that are linked with these changes. The status of this monitoring indicator can be informed and updated by emerging findings and information sources from this report. It should be reviewed on release- every four years, and any changes in the environmental status along the Wild Atlantic Way should be noted.

The overall finding of the 2016 report is that Ireland's environment is in a generally good condition overall. However, there is no room for complacency and the country faces tough challenges in the coming years to meet EU commitments and targets across a range of areas including water, waste, air quality and greenhouse gases to name but a few. As a result of the growing economy focus must remain balanced between growth and becoming more sustainable to reduce emissions. In this context, the 2016report has identified that the four key environmental challenges lined out in the 2012 report remain as valid now as they were in 2012: Valuing and protecting our natural environment; Building a resource-efficient, low-carbon economy; Implementing environmental legislation; and Putting the environment at the centre of our decision-making.

As lined out in the 2016 report, the overall outcome of these challenges for years on concludes that the challenges are mixed. Each challenge is broad and complex, there have been come improvements, however there has been no major breakthrough in the development of everyday effective solution to combating these environmental challenges. To try and combat these environmental challenges there has been key environmental actions put in place for 2016 these

Environmental Health and Wellbeing	Aim to recognise the benefits of a good environment to health and wellbeing.
Climate Change	Improve mitigation actions to lower greenhouse gas emissions and to improve knowledge on how to deal with adverse climate impacts
Implementation of Legislation	Improve the enforcement and implementation of legislation to protect the environment
Restore and Protect Water Quality	Achieve ongoing improvements of water bodies from source to sea
Sustainable Economic Activities	Integrate efficient ideas across all economic sectors
Nature and Wild Places	Protect wild areas that act as hubs, contribute to health and wellbeing and provide sustainable tourist opportunities
Community Engagement	Inform communities on the importance of the protection and improvement of the environment.

include:

Table 2.12 Key Environmental Actions

Monitoring Indicator 7- The status of EU Protected Habitats and Species in Ireland

This general monitoring indicator is common to all monitoring and control points. It provides for an assessment of the status of the habitats and species that Ireland is required to protect under the EU Habitats Directive. The status of this indicator can be informed and updated by emerging findings and information sources from the National Parks and Wildlife Service (NPWS) and other stakeholders on the status of EU Protected Habitats and Species.

The 2013 report 'The Status of EU Protected Habitats and Species in Ireland' as published by NPWS was reviewed in order to inform this monitoring indicator. The overall status of each of Irelands known habitats and species was noted as 'Good' 'Poor' or 'Bad,' for the period 2008-2014, as indicated in Table 2.12 below. This report should be review on release- every six years, and any changes in the status of Irish habitats or species along the Wild Atlantic Way should be noted.

Habitat	Overall Status
SANDBANKS slightly covered by seawater at all times (1110)	Good
ESTUARIES (1130)	Poor
MUDFLATS & SANDFLATS not covered by seawater at low tide (1140)	Poor
COASTAL LAGOONS (1150)	Bad
LARGE SHALLOW INLETS AND BAYS (1160)	Poor
REEFS (1170)	Bad
ANNUAL VEGETATION OF DRIFT LINES (1210)	Poor
PERENNIAL VEGETATION OF STONY BANKS (1220)	Poor
VEGETATED SEA CLIFFS of the Atlantic and Baltic coasts (1230)	Poor
SALICORNIA and other annuals colonising mud and sand (1310)	Poor
ATLANTIC SALT MEADOWS (1330)	Poor
MEDITERRANEAN SALT MEADOWS (1410)	Poor
HALOPHILOUS SCRUB (1420)	Bad
EMBRYONIC SHIFTING DUNES (2110)	Poor
SHIFTING DUNES along the shoreline with Ammophila arenaria (white dunes) (2120)	Poor
FIXED COASTAL DUNES with herbaceous vegetation (grey dunes) (2130)	Bad
DECALCIFIED FIXED DUNES with Empetrum nigrum (2140)	Bad
ATLANTIC DECALCIFIED FIXED DUNES (Calluno-Ulicetea) (2150)	Bad
DUNES with Salix repens spp. Argentea (Salicion arenariea) (2170)	Bad
HUMID DUNE SLACKS (2190)	Poor
MACHAIR (21A0)	Bad
OLIGOTROPHIC WATERS containing very few minerals of sandy plains (Littorelletalia uniflorae) (3110)	Bad
HARD OLIGO-MESOTROPHIC WATERS with benthic vegetation of Chara spp. (3140)	Bad
NATURAL EUTROPHIC LAKES with Magnopotamion or Hydrocharition – type vegetation (3150)	Poor
NATURAL DYSTROPHIC LAKES and ponds (3160)	Poor
TURLOUGHS (3180)	Poor
WATER COURSES of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation (3260)	Poor
RIVERS WITH MUDDY BANKS with Chenopodion rubri p.p. and Bidention p.p. vegetation (3270)	Good
NORTH ATLANTIC WET HEATHS with Erica tetralix (4010)	Bad
EUROPEAN DRY HEATH (4030)	Bad
ALPINE AND SUB-ALPINE HEATH (4060)	Bad

TURITOFOLIC COMMUNITY formations on beather or colonical supplication (F120)	Deer
JUNIPERUS COMMUNIS formations on heaths or calcareous grasslands (5130)	Poor
CALAMINARIAN GRASSLANDS of the Violetalia calaminariae (6130)	Poor
SEMI-NATURAL DRY GRASSLANDS and scrubland facies on calcareous substrates (Festuco-Brometalia) (6210)	Bad
SPECIES-RICH NARDUS GRASSLANDS on siliceous substrates in mountain areas (6230)	Bad
MOLINIA MEADOWS on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) (6410)	Bad
HYDROPHILOUS TALL HERB fringe communities of plains and of the montane to alpine levels (6430)	Bad
LOWLAND HAY MEADOWS (Alopecurus pratensis, Sanguisorba officinalis) (6510)	Bad
ACTIVE RAISED BOG (7110)	Bad
DEGRADED RAISED BOG still capable of regeneration (7120)	Bad
BLANKET BOG (and Active Blanket Bog) (7130)	Bad
TRANSITION MIRE and quaking bogs (7140)	Bad
DEPRESSIONS on peat substrates of the Rhynchosporion (7150)	Good
CALCAREOUS FENS with Cladium mariscus and species of the Caricion davallianae (7210)	Bad
PETRIFYING SPRINGS with tufa formation (Cratoneurion) (7220)	Poor
ALKALINE FEN (7230)	Poor
SILICEOUS SCREE of the montane to snow levels (Androsacetalia alpinae and Galeopsetalia ladani) (8110)	Poor
CALCAREOUS AND CALCHIST SCREES of the montane to alpine levels in Ireland (Thiaspietea rotundifolii) (8120)	Poor
CALCAREOUS ROCKY SLOPES with chasmophytic vegetation (8210)	Poor
SILICEOUS ROCKY SLOPES with chasmophytic vegetation (8220)	Poor
LIMESTONE PAVEMENTS (8240)	Poor
CAVES not open to the public (8310)	Good
Submerged or partially submerged SEA CAVES (8330)	Good
OLD SESSILE OAK WOODS with Ilex and Blechnum (91A0)	Bad
BOG WOODLAND (91D0)	Good
ALLUVIAL FORESTS with Alnus glutinosa and Fraxinus excelsior (91E0)	Bad
Taxus baccata WOODS (91J0)	Bad
Species	
KILLARNEY FERN Trichomanes speciosum (1421)	Good
MARSH SAXIFRAGE Saxifraga hirculus (1528)	Good
SLENDER NAIAD Najas flexilis (1833)	Poor
SLENDER GREEN FEATHER-MOSS Hamatocaulis vernicosus (1393)	Good

PETALWORT Petalophyllum ralfsii (1395)	Good
MAERL Lithothamnion coralloides Phymatolithon calcareum (1376, 1377)	Poor
WHITE CUSHION MOSS Leucobryum glaucum (1400)	Good
SPHAGNUM GENUS Sphagnum spp. (1409)	Poor
LYCOPODIUM GROUP Lycopodium (and related genera) (1413)	Poor
CLADONIA SPP. Cladonia subgenus Cladina (5113)	Poor
GEYER'S WHORL SNAIL Vertigo geyeri (1013)	Poor
NARROW-MOUTHED WHORL SNAIL Vertigo angustior (1014)	Poor
DEMOULIN'S WHORL SNAIL Vertigo moulinsiana (1016)	Poor
KERRY SLUG Geomalacus maculosus (1024)	Good
FRESHWATER PEARL MUSSEL Margaritifera margaritifera (1029)	Bad
NORE FRESHWATER PEARL MUSSEL Margaritifera durrovensis (1990)	Bad
WHITE-CLAWED CRAYFISH Austropotamobius pallipes (1092)	Poor
MARSH FRITILLARY Euphydryas aurinia (1065)	Poor
SEA LAMPREY Petromyzon marinus (1095)	Bad
RIVER LAMPREY Lampetra fluviatilis BROOK LAMPREY Lampetra planeri (1099,1096)	Good
ALLIS SHAD Alosa alosa (1102)	Unknown
KILLARNEY SHAD Alosa fallax killarnensis (5046)	Good
TWAITE SHAD Alosa fallax (1103)	Bad
POLLAN Coregonus autumnalis (5076)	Bad
ATLANTIC SALMON Salmo salar (1106)	Bad
NATTERJACK TOAD Bufo calamita (1202)	Bad
COMMON FROG Rana temporaria (1213)	Poor
LEATHERBACK TURTLE Dermochelys coriacea (1223)	Poor
HORSESHOE BAT Rhinolophus hipposideros (1303)	Good
COMMON PIPISTRELLE Pipistrellus pipistrellus (1309)	Good
SOPRANO PIPISTRELLE Pipistrellus pygmaeus (5009)	Good
NATHUSIUS' PIPISTRELLE Pipistrellus nathusii (1317)	Unknown
NATTERER'S BAT Myotis nattereri (1322)	Good
DAUBENTON'S BAT Myotis daubentoni (1314)	Good
WHISKERED BAT Myotis mystacinus BRANDT'S BAT Myotis brandtii (1330, 1320)	Good
BROWN LONG-EARED BAT Plecotus auritus (1326)	Good
LEISLER'S BAT Nyctalus leisleri (1331)	Good

IRISH HARE Lepus timidus (1334)	Good
OTTER Lutra lutra (1355)	Good
PINE MARTEN Martes martes (1357)	Good
GREY SEAL Halichoerus gryphus (1364)	Good
COMMON (HARBOUR) SEAL Phoca vitulina (1365)	Good
HUMPBACK WHALE Megaptera novaeangliae (1345)	Unknown
BOTTLE-NOSED DOLPHIN Tursiops truncatus (1349)	Good
COMMON DOLPHIN Delphinus delphis (1350)	Good
HARBOUR PORPOISE Phocoena phocoena (1351)	Good
KILLER WHALE Orcinus orca (2027)	Unknown
LONG-FINNED PILOT WHALE Globicephala melas (2029)	Unknown
RISSO'S DOLPHIN Grampus griseus (2030)	Unknown
WHITE-SIDED DOLPHIN Lagenorhynchus acutus (2031)	Good
WHITE-BEAKED DOLPHIN Lagenorhynchus albirostris (2032)	Unknown
STRIPED DOLPHIN Stenella coeruleoalba (2034)	Unknown
CUVIER'S BEAKED WHALE Ziphius cavirostris (2035)	Unknown
SOWERBY'S BEAKED WHALE Mesoplodon bidens (2038)	Unknown
MINKE WHALE Balaenoptera acutorostrata (2618)	Good
FIN WHALE Balaenoptera physalus (2621)	Good
BLUE WHALE Balaenoptera musculus (5020)	Unknown
SPERM WHALE Physeter macrocephalus (5031)	Unknown
NORTHERN BOTTLENOSE WHALE Hyperoodon ampullatus (5033)	Unknown
SEI WHALE Balaenoptera borealis (2619)	Unknown

Table 2.12 Status of EU protected habitats and species 2014

The data shows that in the year 2015, of the 57 EU protected habitats in Ireland- 5 were of 'Good' status, 27 were of 'Poor' status and 25 were of 'Bad' status. Of the 58 EU protected species in Ireland- 31 were of 'Good' status, 11 were of 'Poor' status, 5 were of 'bad' status. The status of some 8 EU protected species in Ireland were 'Unknown' in 2015.

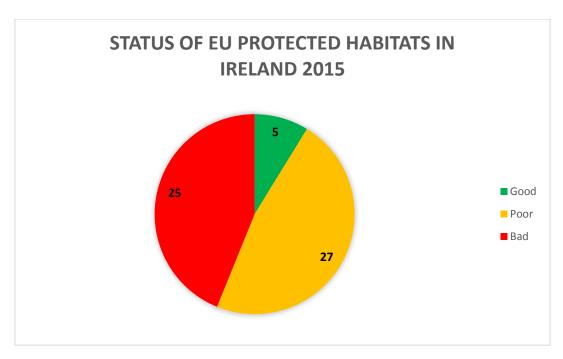


Figure 2.10 Status of EU Protected Habitats in Ireland 2015

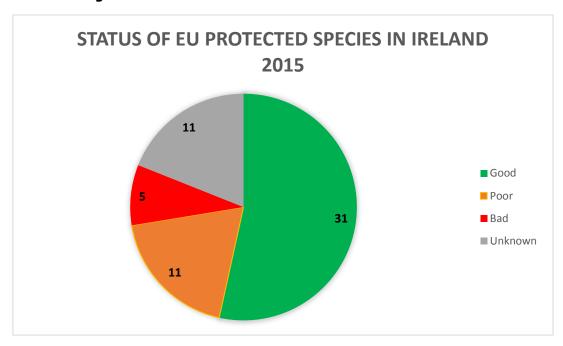


Figure 2.11 Status of EU Protected Species in Ireland 2015

2.8 Monitoring Indicator 8- Visitor Numbers

The monitoring and technical Indicator 'Visitor Numbers' was applied to each of the relevant counties outlined in Table 1.2 and Table 1.3, for the year ending 2015. It should be noted that data on visitor numbers at the specific monitoring and control sites along the Wild Atlantic Way is not available at present time. Thus, in order to inform this monitoring indicator of environmental status, Failte Ireland visitor numbers at county level were reviewed instead.

This data should be reviewed and compared annually in order to identify any upwards or downwards trends in county tourism which might be attributable to awareness and promotion of the Wild Atlantic Way.

1.8.1 Visitor Numbers at Monitoring Points

	Monitoring Point	Britain	Mainland Europe	North America	Other Areas	Domestic	Total Visitors
Donegal	Dungloe	84,000	126,000	55,000	24,000	314,000	603,000
Donegal (Sligo Border)	Bundoran	84000	126000	55,000	24,000	341,000	603,000
Мауо	Newport	79,000	121,000	85,000	17,000	463,000	765,000
Galway	Galway Bay	243,000	621,000	373,000	117,000	895,000	2,249,000
Clare	Kilrush	30,000	29,000	60,000	9,000	410,000	538,000
Kerry	Cahersiveen	54,000	79,000	83,000	18,000	779,000	1013,000
Cork	Bantry	137,000	254,000	126,000	40,000	967,000	1524,000

Table 2.13 Visitor Numbers at Monitoring Points

County	Control	Britain	Mainland Europe	North America	Other Areas	Domestic	Total Visitors
Donegal	Ballybofey	84,000	126,000	55,000	24,000	314,000	603,000
Galway	Gort	243,000	621,000	373,000	117,000	895,000	2,249,000
Kerry	Castleisland	54,000	79,000	83,000	18,000	779,000	1013,000
Clare	Lahinch	30,000	29,000	60,000	9,000	410,000	538,000

Table 2.14 Visitor Numbers at control sites

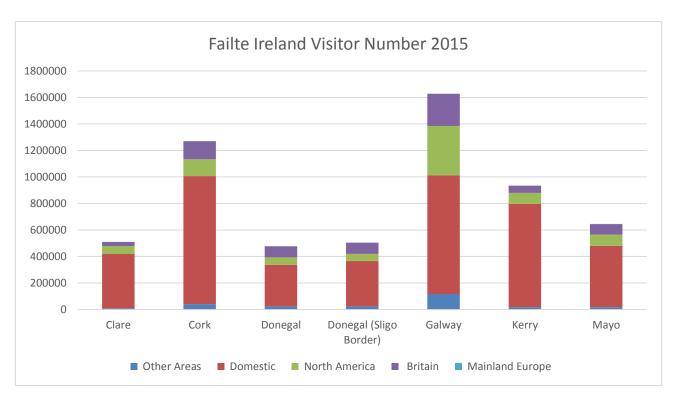


Figure 2.12 Failte Ireland Visitor Numbers at Counties along the WA

2.9 Monitoring Indicator 9- Tourism Related Planning Refusals

The final macro-indicator of environmental status examined for this study is 'tourism related planning refusals.' A high level of tourism related refusals is a potential indicator of pressure on the environmental status of a County.

The An Bord Pleanala website was used to gain access to records of all 'decided cases' of planning appeals from the year 2014 at each of the counties along the Wild Atlantic Way. Where a decision was made by An Bord Pleanala to refuse planning for a development in any of these six counties (Galway, Mayo, Donegal, Clare, Cork and Kerry) during 2015, the reason for refusal was examined. All planning refusals during the year 2015 in each county were reviewed and all those with a decision which might be attributable to tourism were noted.

This method provides an official high level indicator as to where pressure points are occurring in Counties along the Wild Atlantic Way without the need to capture all planning applications to Local Authorities and or Foreshore Lease/Licence applications to the Department of Environment, Community and Local Government.

Case Number	Case	Reason for Refusal				
Galway						
246241	Cregg, Co. Galway. (15/729)	Area of High landscape sensitivity				
246766	Ballinamanna West, Clarinbridge, Co. Galway. (15/1544)	Landscape and Visual Amenity				
Donegal						
246540	Glebe Td. Killybegs, Donegal (15/51173)	May be an area of archaeological potent.				
246460	Muntermellan, Horn Head, Dunfanaghy, Co. Donegal. (15/51692)	Area of High Landscape Sensitivity				
Мауо						
246179	246179 Cloonan, Islandeady, Castlebar, Co. Mayo. (15/828)					
Kerry						
205472	Derreen, Killarney,Co, Kerry. (15/205)	Landscape and Visual Amenity				
Clare						
245425	Beal an Inbhir, Shanakyle Road, Leadmore West, Kilrush, Co. Clare. (15/407)	Landscape and visual Amenity				

Table 2.15 Tourism Related Planning Refusals

Results show that every development in the six counties that was refused planning permission in 2015 as a result of tourism related reasons were all located along the Wild Atlantic Way route.

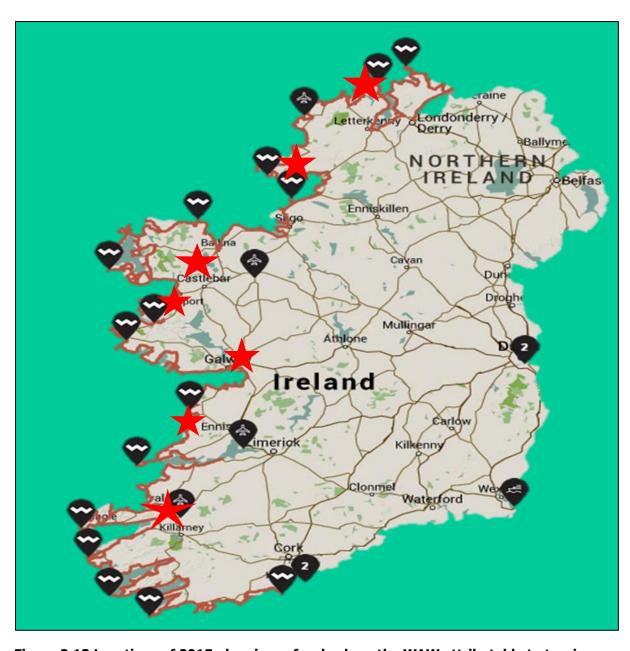


Figure 2.13 Locations of 2015 planning refusals along the WAW attributable to tourism

3. Conclusions and Recommendations

The macro monitoring element of the *Environmental Surveying and Monitoring for the Wild Atlantic Way Operational Programme*, as discussed in this document concentrates on long-established, high quality, official baselines. These official baselines were adopted for this monitoring survey in order to represent a number of key performance indicators, the intended use of which being to identify trends and changes in the state of the environment along the Wild Atlantic Way.

The key performance indicators, as described in detailed in Table 1.1 of this document, were applied to six monitoring points and a further four control sites inland from the route in order to provide an insight into the state of the environment along the Wild Atlantic Way during the year 2015 The results of these macro monitoring activities will be collated and presented to a Monitoring Group along with results of all other Wild Atlantic Way monitoring activities.

The Strategy for Environmental Surveying and Monitoring is an evolving tool that will be informed and updated by emerging findings. Presentation of all monitoring results should thus be presented to the Monitoring Group once a year hereafter. This information can be used by relevant members of the Monitoring Group to identify protective, remedial or improvement actions within their own areas of responsibility during the following year. An annual summary of the results of monitoring will be published on the Fáilte Ireland website at the end of each monitoring year.