

## Claire Lyons

---

**From:** Michael OKane [Michael.OKane@teagasc.ie]  
**Sent:** 27 January 2011 12:28  
**To:** Corina O'Sullivan  
**Cc:** della.hunter@teagasc.ie  
**Subject:** BandonFlood Relief Scheme- Environmental Constraints Consultation

Corina, further to the above and your letter to Teagasc of 21/1/11, I would confirm that Teagasc will not be making any submission on the scheme as it is currently defined or any derivative thereof.

Regards,  
Michael O'Kane, C. Eng;  
Teagasc  
Moorepark, Fermoy, Co. Cork  
Ph: 025-42307; VPN : 772307  
*e-mail: michael.okane@teagasc.ie*

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**Tabhair aire:**

Ta an r-phost seo faoi phribhleid agus faoi run. Mura tusa an duine a bhi beartaithe leis an teachtaireacht seo a fhail, scrios e le do thoil agus cuir an seoltóir ar an eolas. Is leis an udar amhain aon dearcaí no tuairimí a leirítear. Scanadh an r-phost seo le Teagasc agus deimhníodh go raibh se saor o vioras leis an bpatrunchomhad ata in usaid faoi lathair. Ni feidir a rathu leis seo afach nach bhfuil abhar mailiseach ann.



**An Roinn Gnóthaí Pobail, Comhionannais  
agus Gaeltachta**

Department of Community, Equality  
and Gaeltacht Affairs



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Co. Shligigh, Éire.  
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Your Ref : 2185 - 100735

Corina Collieran  
McCarthy Keville O'Sullivan Ltd  
Planning & Environmental Consultants  
Block 1, G.F.S.C.  
Moneenageisha Road  
Galway.

24<sup>th</sup> January, 2011

Dear Ms Collieran,

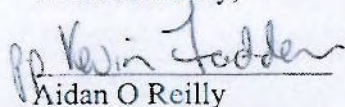
I refer to your letter of the 10<sup>th</sup> January, 2011 regarding the Bandon Flood Relief Scheme Environmental Constraints Consultation.

The Department of Community, Equality and Gaeltacht Affairs does not have direct responsibility for environmental issues in this context.

We trust that you will consult with the appropriate bodies that do have such responsibility.

I trust this information is of value to you.

Yours sincerely,



Aidan O'Reilly  
Principal Officer  
Rural Development Division







**An Taisce – The National Trust for Ireland**  
Tailor's Hall, Back Lane, Dublin 8

Corina Colleran  
McCarthy Keville O'Sullivan Ltd  
Planning and Environmental Consultants  
Block 1, G, F.S.C.  
Moneenageisha Road  
Galway  
ccolleran@mccarthykos.ie

19.01.11

**Bandon Flood Relief Scheme – Environmental Constraints Consultation**

Dear Ms Colleran

Thank you for referring the Bandon Flood Relief Scheme – Environmental Constraints Consultation to An Taisce for comment.

An Taisce recommend that more alternative Flood Relief measures should be investigated for this scheme. Long term sustainable flood management strategies are required through options such as upstream catchment management. Non structural options need to be investigated. These should include the use of techniques to control surface water runoff and thus reduce the peak of the flood before it reaches a watercourse. Flood alleviation should not be considered only on a site specific basis but at the catchment (watershed) level.

Protection, and where applicable, management of wetlands as part of the flood relief scheme is important for ensuring the link between such ecosystems is recognised, valued, and accordingly protected. This can be one of the most cost effective and sustainable forms of flood management. The restoration of degraded wetlands should be considered as an important mitigation measure of flooding.

There are also a wide range of sustainable drainage options that can be used for urban areas, including filter strips and 'swales'- vegetated landscape features to drain water evenly off impermeable surfaces; filter drains and permeable and porous pavements allowing infiltration to permeable materials placed below ground to store water prior to discharge. Sustainable drainage systems can be integrated in to surrounding land uses, eg public open space and road verges. Many of the options proposed above are extremely valuable since they minimize the need for hard engineering solutions, and dredging, especially as dredging can have a number of serious negative environmental impacts.

An Taisce also considers that the opening up of lands to flooding upstream needs further consideration, such as practiced in the UK since the 2007 flooding there and the resultant 'Pitt review' which has led 'Right to flood agreements' with landowners. This is a technique that should be considered for the river basin catchment as a whole as it would benefit a number of areas which will look to schemes, such as this, for flood mitigation.

Please do not hesitate to contact me if you have any queries regarding this submission.

Yours sincerely,

**RYAN HANLEY**

Camilla Keane  
Natural Environment Office  
An Taisce



**Claire Lyons**

---

**From:** claire\_hynes@hsa.ie  
**Sent:** 19 January 2011 11:14  
**To:** Corina O'Sullivan  
**Subject:** Email, ID 27846

Your ref: 2185-100735

Contact id: 27846

19/01/2011

Corina Colleran  
McCarthy Keville O'Sullivan Ltd.  
Planning and Environmental Consultants  
Block 1, G.F.S.C  
Moneengeisha Road  
Galway

Ref ID: 27846

Re: Bandon Flood Relief Scheme - Environmental Constraints Consultation

Dear Madam,

I hereby acknowledge receipt of your correspondence regarding the above which has been recorded and assigned the reference number 27846.

In reply, from reading through your correspondence it appears to be an Environmental issue therefore the Health and Safety Authority wouldn't have a specific remit in relation this. The Health and Safety Authority (HSA) is the national body in Ireland with responsibility for securing health and safety at work. If you have any queries or issues relating to Occupational Health and Safety please let me know.

Please ensure you have your reference number available or quote it in any correspondence to assist the Workplace Contact Unit to deal with your request efficiently.

Yours sincerely

Claire Hynes  
On behalf of the Workplace Contact Unit

\*\*\*\*\*

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28/01/2011





**Claire Lyons**

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**From:** Parkes, Matthew [mparkes@museum.ie]  
**Sent:** 17 January 2011 17:28  
**To:** Corina O'Sullivan  
**Cc:** Monaghan, Nigel  
**Subject:** GE/2011/15 Bandon flood relief scheme

Dear Corina,

You included the **Mining Heritage Trust of Ireland** in your consultation over this project. Our correct address is c/o the Natural History Museum, Merrion Street, Dublin 2, and NOT Mountain Mine, Allihies, Dublin 1 which is a mixed up address anyway!

We are unaware of any mining heritage within the study area shown on your map. However, should any become known to you or be exposed at any stage of the project, we would wish to be consulted directly on the new information.

You may also wish to contact the **Industrial Heritage Association of Ireland** [www.ihai.ie] to see if they have information or views.

Yours sincerely,

Matthew Parkes  
 Director, Mining Heritage Trust of Ireland

Dr Matthew A Parkes  
 National Museum of Ireland - Natural History  
 Merrion Street, Dublin 2, Ireland  
 Email: [mparkes@museum.ie](mailto:mparkes@museum.ie)  
 Telephone: +353 (0)87 122 1967 or 01-6307006

**Fógra Tábhachtach**

Tá an t-eolas sa ríomhphost seo agus in aon chomhad a ghabhann leis rúnda agus d'fhéadfadh sé a bheith faoi phribhléid dlíthúil freisin. Séanann Ard Mhúsaem na hÉireann ach go háirithe (ach ní trí theorannú) chuile fhreagracht, agus ní ghlacann le haon dlíteanas i leith aon ríomhphost nó iatáin a ghabhann leo, atá clúmhilleach, taircisiúil, ciníoch nó a sháraíonn cearta an duine in aon tslí eile, sárú rúndachta, príobháideachais nó cearta eile san áireamh. Má tá an ríomhphost seo faighte agat trí dhearmad, cuir ar an eolas muid láithreach ag [ithelpdesk@museum.ie](mailto:ithelpdesk@museum.ie) agus scríos amach é féin agus chuile chóip de as do chóras. Deimhníonn an fonóta seo chomh maith gur seiceáilleadh an teachtaireacht ríomhphost seo ar fhaitíos vírís.

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**Claire Lyons**

---

**From:** Ciaran J. Potter [CJPotter@justice.ie]  
**Sent:** 17 January 2011 15:25  
**To:** Corina O'Sullivan  
**Subject:** Invitation to Minister - Bandon Flood Relief Committee  
**Attachments:** Document.pdf

Dear Ms. Colleran

I refer to the attached correspondence addressed to the Department of Justice, Equality & Law Reform and I reply on behalf of Minister Dermot Ahern.

The Minister would like to thank you for the invitation to attend the Public Information Day or to submit comments regarding the Bandon Flood Relief Scheme - Environmental Constraints Consultation. However, it is considered that this invitation would be more appropriate to the Department of the Environment, Heritage & Local Government.

You can contact the office of the Minister for the Environment, Heritage & Local Government at [minister@environ.ie](mailto:minister@environ.ie).

Kind Regards,

Ciaran Potter  
 Diary Secretary  
 Office of the Minister  
 Department of Justice & Law Reform  
 94 St. Stephen's Green  
 Dublin 2  
 01-6028321

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Is le haghaidh an duine nó an eintitis ar a bhfuil sí dírithe, agus le haghaidh an duine nó an eintitis sin amháin, a bheartaítear an fhaisnéis a tarchuireadh agus féadfaidh sé go bhfuil ábhar faoi rún agus/nó faoi phribhléid inti. Toirmiscear aon athbhreithniú, atarchur nó leathadh a dhéanamh ar an bhfaisnéis seo, aon úsáid eile a bhaint aisti nó aon ghníomh a dhéanamh ar a hiontaoibh, ag daoine nó ag eintitis seachas an faighteoir beartaithe. Má fuair tú é seo trí dhearmad, téigh i dteagmháil leis an seoltóir, le do thoil, agus scríos an t-ábhar as aon ríomhaire. Is é beartas na Roinne Dlí agus Cirt agus Athchóirithe Dlí, na nOifigí agus na nGn&i acute;omhaireachtaí a úsáideann seirbhísí TF na Roinne seoladh ábhair cholúil a dhícheadú.

Más rud é go measann tú gur ábhar colúil atá san ábhar atá sa teachtaireacht seo is ceart duit dul i dteagmháil leis an seoltóir láithreach agus le [mailminder@justice.ie](mailto:mailminder@justice.ie) chomh maith.

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Should you consider that the material contained in this message is offensive you should contact the sender immediately and also

28/01/2011





**Claire Lyons**

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**From:** Monaghan, Nigel [nmonaghan@museum.ie]  
**Sent:** 14 January 2011 15:44  
**To:** Corina O'Sullivan  
**Subject:** RE: Bandon Flood Relief Scheme consultation

Thanks, I will circulate it internally

**Fógra Tábhachtach**

Tá an t-eolas sa ríomhphost seo agus in aon chomhad a ghabhann leis rúnda agus d'fhéadfadh sé a bheith faoi phribhléid dlíthúil freisin. Séanann Ard Mhúsaem na hÉireann ach go háirithe (ach ní trí theorannú) chuile fhreagracht, agus ní ghlacann le haon dliteanas i leith aon ríomhphost nó iatáin a ghabhann leo, atá clúmhilleach, taircisiúil, ciníoch nó a sháraíonn cearta an duine in aon tslí eile, sárú rúndachta, príobháideachais nó cearta eile san áireamh. Má tá an ríomhphost seo faighte agat trí dhearmad, cuir ar an eolas muid láithreach ag [ithelpdesk@museum.ie](mailto:ithelpdesk@museum.ie) agus scrios amach é féin agus chuile chóip de as do chóras. Deimhníonn an fonóta seo chomh maith gur seiceáileadh an teachtaireacht ríomhphoist seo ar fhaitíos víris.

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## Claire Lyons

---

**From:** David Tuohy [David.Tuohy@environ.ie]  
**Sent:** 13 January 2011 15:29  
**To:** Corina O'Sullivan  
**Cc:** Claire Lyons  
**Subject:** Bandon Flood Relief Scheme - Environmental Constraints Consultation  
**Attachments:** ATT05533.txt

Dear Ms Colleran,

I refer to your recent correspondence, (your ref: 2185-100735) received by this office on 13th January. I wish to advise that your correspondence has been forwarded to the Development Applications Unit's professional advisers for comment and assessment. DAU reference number is **G2011/17**

A response, from this office will be issued to you on 24th February 2011

If you have not received a response from this office by this date, please contact the undersigned quoting your assigned reference number (see above).

Kind Regards,

David Tuohy  
Development Applications Unit,  
Heritage Policy and Architectural Protection,  
Department of the Environment, Heritage and Local Government,  
Email: [david.tuohy@environ.ie](mailto:david.tuohy@environ.ie)  
Phone: +353 53 9117380  
Fax: +353 53 9117609



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Ms. Corina Colleran,  
McCarthy Keville O'Sullivan Ltd.,  
Planning & Environmental Consultants,  
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Moneegeisha Road,  
Galway.

Teach Naomh Máirtín / Bóthar Waterloo / Baile Átha Cliath 4  
St. Martin's House / Waterloo Road / Dublin 4  
Tel: / Tel: + 353 1 660 2511 Facs: / Fax: + 353 1 668 0009

Dáta / Date  
25 January 2011

Ár dTaoi / Our Ref  
NRA 11-81251

Bhur dTaoi / Your Ref  
2185-100735

**Re: Bandon Flood Relief Scheme - Environmental Constraints Consultation**

Dear Ms. Colleran,

The Authority wishes to advise that it is not in a position to engage directly with planning applicants in respect to proposed developments. The Authority will endeavour to consider and respond to planning applications referred to it given its status and duties as a statutory consultee under the Planning Acts. The approach to be adopted by the Authority in making such submissions or comments will seek to uphold official policy and guidelines as outlined in our Circular 6/2006 "*Policy Statement on Development Management and Access to National Roads*" and other relevant circulars, which are available at [www.nra.ie](http://www.nra.ie). Regard should also be had to the Department of Environment, Heritage and Local Government *Spatial Planning and National Roads (Consultation Draft) Guidelines for Planning Authorities*.

The issuing of this correspondence is provided as best practice guidance only and does not prejudice the NRA's statutory right to make any observations, requests for further information, objections or appeals following the examination of any valid planning application referred.

With respect to EIS scoping issues, the recommendations indicated below provide only general guidance for the preparation of EIS, which may affect the National Roads Network.

The developer should have regard, *inter alia*, to the following;

- Consultations should be had with the relevant Local Authority/National Roads Design Office with regard to locations of existing and future national road schemes, N71 Bandon to Inishannon,
- The Authority would be specifically concerned as to potential significant impacts the development would have on any national roads in the proximity of the proposed development, existing N71,
- The developer should assess visual impacts from existing national roads,
- The developer should have regard to any Environmental Impact Statement and all conditions and/or modifications imposed by An Bord Pleanála



regarding road schemes in the area. The developer should in particular have regard to any potential cumulative impacts,

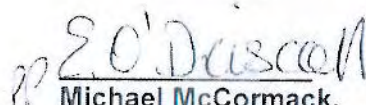
- The developer, in conducting Environmental Impact Assessment, should have regard to the NRA DMRB and the NRA Manual of Contract Documents for Road Works,
- The developer, in conducting Environmental Impact Assessment, should have regard to the NRA's Environmental Assessment and Construction Guidelines, including the *Guidelines for the Treatment of Air Quality During the Planning and Construction of National Road Schemes* (National Roads Authority, 2006),
- The EIS should consider the Environmental Noise Regulations 2006 (SI 140 of 2006) and, in particular, how the development will affect future action plans by the relevant competent authority. The developer may need to consider the incorporation of noise barriers to reduce noise impacts (see *Guidelines for the Treatment of Noise and Vibration in National Road Schemes* (1<sup>st</sup> Rev., National Roads Authority, 2004)),
- It would be important that, where appropriate, subject to meeting the appropriate thresholds and criteria, a Traffic and Transport Assessment be carried out in accordance with relevant guidelines and best practice, noting traffic volumes attending the site and traffic routes to/from the site with reference to impacts on the national road network and junctions of lower category roads with national roads. The Authority's Traffic and Transport Assessment Guidelines (2007) should be referred to in this regard,
- The designers are asked to consult the National Roads Authority's DMRB *Road Safety Audit* (NRA HD 19/09) to determine whether a Road Safety Audit is required,
- In the interests of maintaining the safety and standard of the national road network, the EIS should identify the methods/techniques proposed for any works traversing/in proximity to the national road network.

(Developers may wish to consult the local planning authority, road authority/County Council or National Road Regional Design Office for the area for assistance on the foregoing matters).

Notwithstanding, any of the above, the developer should be aware that this list is non-exhaustive, thus site and development specific issues should be addressed in accordance with best practise.

I hope that the above comments are of use in your scoping process.

Yours sincerely,

  
Michael McCormack,  
Policy Adviser (Planning)/

Your Ref: 2185-100735

Corina Colleran,  
McCarthy Keville O'Sullivan Ltd.  
Planning & Environmental Consultants,  
Block 1, G.F.S.C.  
Moneenageisha Road,  
Galway.

17<sup>th</sup> January, 2011

**Re: Request for comments in relation to the  
Environmental Impact Statement for a proposed  
Bandon Flood Relief Scheme, Co. Cork.**

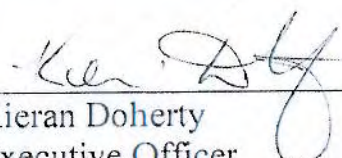
Dear Madam,

I have been asked by An Bord Pleanála to refer to your letter dated the 10<sup>th</sup> January, 2011, inviting the Board to make a submission / observation on the information contained in the Environmental Impact Statement in respect of the above-mentioned development.

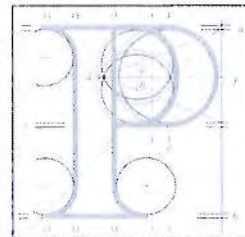
Please be advised that the Board will not be making any submission / observation in relation to the scheme or the Study Area.

If you have any queries in relation to the matter, please contact the undersigned officer of the Board.

Yours faithfully,

  
Kieran Doherty  
Executive Officer  
Direct Line: 01-8737248

An Bord Pleanála



64 Sráid Maoilbhríde,  
Baile Átha Cliath 1.

Tel: (01) 858 8100  
LoCall: 1890 275 175  
Fax: (01) 872 2684  
Web: <http://www.pleanala.ie>  
email: [bord@pleanala.ie](mailto:bord@pleanala.ie)

64 Marlborough Street,  
Dublin 1.





**Railway Procurement Agency**

Parkgate Business Centre,  
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**Gníomhaireacht  
um Fháil Iarnróid**

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Ms Corina Collieran  
McCarthy Keville O'Sullivan Ltd.  
Block 1, GFSC  
Moneenageisha Road  
Galway


18<sup>th</sup> January 2011

**Re: Bandon Flood Relief Scheme – Environmental Constraints Consultation**

Dear Ms Collieran,

Further to receipt of your recent correspondence in relation to the Bandon Flood Relief Scheme, please be advised that RPA have no comments in relation to this matter.

Yours sincerely,



Anne Lillis  
Environmental Manager  
Railway Procurement Agency



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Planning & Environmental Consultants Ltd  
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E: [info@waterwaysireland.org](mailto:info@waterwaysireland.org)  
W: [www.waterwaysireland.org](http://www.waterwaysireland.org)

18<sup>th</sup> January 2011

**Re- Brandon Flood Relief Scheme..... Ref 2185-100735**

**Dear Mrs Colleran**

Waterways Ireland has no comment to make regarding this project.

Yours Sincerely



k.N.Russell







*An Roinn Gnóthaí Pobail, Comhionannais  
agus Gaeltachta*  
Department of Community, Equality  
and Gaeltacht Affairs



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Facsimhír +353 71 918 6750  
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Your Ref: 2185 - 100735

Corina Collieran  
McCarthy Keville O'Sullivan Ltd  
Planning & Environmental Consultants  
Block 1, G.F.S.C.  
Moneenageisha Road  
Galway.

24<sup>th</sup> January, 2011

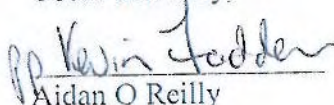
Dear Ms Collieran,

I refer to your letter of the 10<sup>th</sup> January, 2011 regarding the Bandon Flood Relief Scheme Environmental Constraints Consultation.

The Department of Community, Equality and Gaeltacht Affairs does not have direct responsibility for environmental issues in this context.  
We trust that you will consult with the appropriate bodies that do have such responsibility.

I trust this information is of value to you.

Yours sincerely,



Aidan O'Reilly  
Principal Officer  
Rural Development Division







## IRISH PEATLAND CONSERVATION COUNCIL

COMHAIRLE CHAOMHNATHE PHORTAIGH NA hÉIREANN

Lullymore, Rathangan, Co. Kildare, Ireland  
Liolach Mór, Rath Iongáin, Co. Chill Dara, Éire

Tel/Teil: +353-(0)45-860133 Fax/Faics: +353-(0)45-860481  
e-mail/ríomhphost: bogs@ipcc.ie web/idirlíon: www.ipcc.ie

Corina Colleran  
McCarthy Keville O'Sullivan Ltd  
Planning & Environmental Consultants  
Block 1, G.F.S.C  
Monennageisha Road  
Galway

24th January 2011

### Re: Bandon Flood Relief Scheme - Environmental Constraints Consultation

Dear Ms Colleran,

I wish to acknowledge receipt of your consultation letter regarding the above proposed development.

Having studied our designation maps here at the IPCC I can confirm that there are 3 proposed Natural Heritage Area sites within the study area. These are;

Bandon Valley Above Inishannon **pNHA 1740**

Bandon Valley below Inishannon **pNHA 1515**

Bandon Valley West of Bandon **pNHA 1034**

To the best of my knowledge these sites do not contain peatland habitat and as such we have very little information on them. You can get further info on the sites through contacting the National Parks & Wildlife Service.

Please be aware that the National Parks and wildlife viewer also indicates the presence of 3 species of conservation concern within the 10km grid in which the development is proposed.

These are;

*Saxifraga granulata* Protected under the Flora Protection Order 1987. Listed as critically endangered on the IUCN Red List.

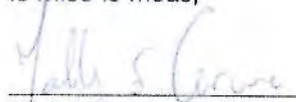
*Mentha pulegium* Protected under the Flora Protection Order 1987. Listed as endangered on the IUCN Red List.

*Misopates orontium* Protected under the Flora Protection Order 1987. Listed as endangered on the IUCN Red List.

These species need to be considered and their presence investigated in any Environmental Impact Assessment carried out on the site.

Thank you for consulting with IPCC on this matter.

Is mise le meas,

  
Tadhg O Corcora MSc  
Conservation Officer, IPCC.

25 YEARS TAKING ACTION FOR BOGS AND WILDLIFE

Charity No/Uimhir Charthanacht: CHY6829 Registered in Ireland No/Uimhir Cláráltha in Éirinn: 116156 Registered Office/Oifig Cláráltha: Lullymore, Rathangan, Co. Kildare, Ireland

Company Secretary/Rúnaí Comhlacht: Ruth McGrath

Directors/Stiúrthóirí: Miles Newman, Martin Kelly, Catherine O'Connell, Ruth McGrath, Kieran Hall, Jenni Roche, Sean O'Farrell

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DUBLIN 2, IRELAND

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20 January 2011

Ms Corina Colleran  
McCarthy Keville O'Sullivan Ltd.  
Block1, G.F.S.C.  
Moncenagheisha Road  
Galway

**Re: Proposed Bandon Flood Relief Scheme – Environmental Constraints  
Consultation**

Dear Ms Colleran

I refer to your query of 10 January 2011 to the Irish Aviation Authority about the proposed Bandon Flood Relief Scheme.

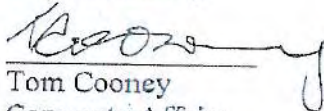
I wish to advise that we have no observations on the relief scheme.

**Note:** Your query was addressed to our old business address. I would be grateful if you would amend your records to note our new postal address for planning correspondence:

Irish Aviation Authority  
The Times Building  
Corporate Affairs  
Fourth Floor  
11-12 D'Olier Street,  
Dublin 2

Our email address remains the same: [planning@iaa.ie](mailto:planning@iaa.ie)

Yours sincerely

  
Tom Cooney  
Corporate Affairs



Ms Corina Colleran  
McCarthy Keville O'Sullivan Ltd  
Block 1, G.F.S.C.  
Moneenageisha Road  
Galway.

2 February 2011

**RE: Bandon Flood Relief Scheme- Constraints Study.**

Dear Corina,

I refer to your letter dated 10<sup>th</sup> January regarding the above-mentioned.

The significance of the Bandon River from a fisheries perspective and the potential impact of flood alleviation measures on fisheries in the catchment are considered below.

**Introduction:**

Inland Fisheries Ireland is the statutory body with responsibility for the protection, conservation and development of fisheries in the state. The Bandon River is one of the premier salmonid fisheries in the South West Region, rising in the West Cork mountains and flowing for some 45 miles main channel length before discharging to the sea in Kinsale Harbour. It drains a catchment of approximately 235 sq. miles in area. The Bandon River offers a great variety of game fishing including salmon, sea trout and brown trout fishing. Salmon fishing is available over the vast majority of the main channel of the Bandon and extends upstream to Togher Castle in the upper reaches of the river. Sea trout are caught up to Ballineen. The vast majority of fishing on the Bandon is under private ownership or controlled by syndicates or angling associations.

A fish counter located on the weir (fish pass) in Bandon records the upward movement of salmon and sea trout. Table 1 shows the combined number of both species passing through the counter for 2010 on a monthly basis.

Table 1: Bandon Weir Fish Counter Data 2010

Month	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Salmon	4	7	16	32	87	215	539	172	275	1254	876	314

In total in 2010, 3791 fish were recorded passing through the counter. However fish movement over the weir is not exclusively through the fish pass. Fish can also navigate the weir independently of the pass. While no precise figure exists, local knowledge would suggest that fish passing through the counter represent only 60% of the total upward fish movement. On this basis it is estimated that in 2010 a total of approximately 6318 fish (adult salmon and sea trout)



moved upstream over the weir in Bandon. This figure does not take into account returning fish which spawned in the main channel downstream of the weir or in any of the tributaries which enter the main channel downstream of the weir e.g. Bridewell and Brinny Rivers.

With respect to catch statistics the average annual angling catch for the years 2003-2006 was 517 fish (salmon and sea trout > 40cm) per year for the Bandon system. For 2010 an angling quota of 350 fish and a draft net quota of 61 fish applied for the Bandon River.

#### **Constraints Study Area:**

The constraints study area established for the purpose of the Bandon Flood Relief Scheme Study encompasses an area from just east of Baxter's Bridge to Dunderrow. Between Baxters Bridge and Innishannon Bridge (where the river becomes tidal) virtually all of the main channel of the Bandon River can be categorized as salmonid spawning, nursery or angling waters. The lower reaches of the Bridewell and Brinny Rivers are principally spawning and nursery waters.

Within the study zone, fishing on the main Bandon River channel is controlled over varying distances by among others, the Bandon Angling Association, Pat O'Driscoll, Barry O'Driscoll, David Forde and Dick Lee. There are approximately 46 regularly used and recognized angling stretches and pools in the study zone. These pools are not alone significant in terms of angling but play a key function in facilitating the upstream movement of salmonids.

Within the Bandon town area the following redd count data is available for the years 2008, 2009 and 2010.

#### **Bandon River, Mc Sweeney Quay (Weir to Main Bridge)**

2008- 17 redds  
2009- 12 redds  
2010- 14 redds

#### **Bridewell River, Town Section (Chapel to GAA entrance)**

2008- 6 redds  
2009 -0 redds  
2010- 12 redds

In addition to salmonids, freshwater pearl mussel, lamprey and eels have been recorded within the constraints study area.

#### **Flood Alleviation Measures:**

While IFI are fully aware of, and sensitive to, the hardship caused by previous flooding events in Bandon town, any proposed flood alleviation measures must be sustainable and in keeping with the requirements of the Fisheries Acts, Habitats Directive and Water Framework Directive.

In this context IFI feels that the current assessment of flooding events in Bandon must be a catchment wide process assessing the impact of changes in drainage, development and land use patterns and practices on the response of flows in the Bandon River to rainfall events. Likewise potential solutions should consider the catchment in its entirety and not focus solely on the small area set out in the constraints study. Each solution or series of solutions proposed should be considered not alone in financial terms but also in the context of long term sustainability and durability in combination with flood control effectiveness.



More specifically considering the significance of the Bandon River in terms of fisheries, the EIS associated with any proposed flood alleviation measures needs to address the following

Assessment of Existing Conditions

The following data is necessary, both within the study area and to the limits of the zone of influence of any proposed works, to assess existing conditions:-

- a) Mapping of the range, location and extent of each aquatic habitat type e.g. pools, nursery and spawning areas.
- b) Redd counting in the proposed study area and upstream to the limits of the zone of influence of any proposed works be carried out over at least the next 2 years.
- c) Mapping of both the extent and nature of bankside vegetation, highlighting in particular all areas subject to river bank erosion at present.
- d) A complete stock survey of all fish species.
- e) Characterization and quantification of each habitat area, identified in (a), based on its macro invertebrate population.
- f) Detailed assessment and characterization of all potentially impacted channels in terms of their surface and sub-surface sedimentology.

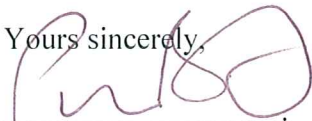
Impact Assessment:

The following requirements apply from a fisheries perspective in relation to impact assessment of any proposed works:-

- a) Quantification of habitat losses and the impact on both flora and fauna.
- b) Impact of any proposed works on fish stock densities for each species.
- c) Changes in flow dynamics, the consequent impact on fish migrations and the loss of opportunity for fish movement.
- d) Compatibility of any proposed measures with existing legislative requirements.

Should you require any clarification please do not hesitate to contact me.

Yours sincerely,



Dr. Patrick Buck  
Director



South Western River Basin District  
Cork County Council  
Inniscarra  
Co. Cork  
Ireland

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Co. Galway.

15<sup>th</sup> January 2011

**Reference:** Bandon Flood Relief Scheme – Environmental Constraints Consultation

**Your Ref:** 2185-100735

Dear Sir/Madam,

Thank you, for your letter dated 10<sup>th</sup> January 2011.

The South Western River Basin District (SWRBD) management plan was adopted by all Local Authorities in the SWRBD prior to the 30<sup>th</sup> April 2010, as stipulated in the European Communities (Water Policy) Regulations 2003 (S.I. 722 of 2003 as amended). The SWRBD plan came into effect on the 15<sup>th</sup> July 2010.

The South Western River Basin Management Plan (2009-2015) objectives should be considered and integrated as appropriate with the Bandon Flood Relief Scheme (See Section 6 of the SWRBD Plan). The Scheme should comply with the Water Framework Directive.

The main objectives of the **Water Framework Directive** are:

- Prevent deterioration and maintain high status where it already exists
- Protect, enhance and restore all waters with aim to achieve at least good status by 2015
- Ensure waters in protected areas meet requirements
- Progressively reduce chemical pollution

The SWRBD Management plan is available on the website [www.wfdireland.ie](http://www.wfdireland.ie) with all the background documents. (Composite SWRBD Management plan version is available on [www.swrbd.ie](http://www.swrbd.ie) – this includes Ministerial amendments)



The following sections of the SWRBD plan should be noted:

- Section 4.2.3 of the SWRBD plan refers to **New modifications or sustainable development** and this should be taken into consideration in your development of the Bandon Flood Relief Scheme.
- Section 6.1.1 – **Land use planning** - Any potential impacts from future development on waters can be mitigated by properly incorporating the objectives established in this (SWRBD) plan into development plans to ensure sustainable development.
- Please refer to the Water Management Units in order to establish the water body status. (UpperBandon, Bandon/Stick and TRAC WMU's)
- Attached Map showing the WFD Status at the proposed location. Map 1

Please note that Cork County Council is the coordinating authority for the SWRBD. The Coordinator for the SWRBD is Michael J Ryan and can be contacted at the following address:

Michael J Ryan,  
Project Co-ordinator,  
South Western River Basin District (SWRBD),  
Environment & Emergency Services Directorate,  
Cork County Council,  
Inniscarra,  
Co Cork

If you require further information, please don't hesitate to contact me.

Yours Sincerely



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Michael J Ryan,  
SWRBD Co-ordinator

cc: