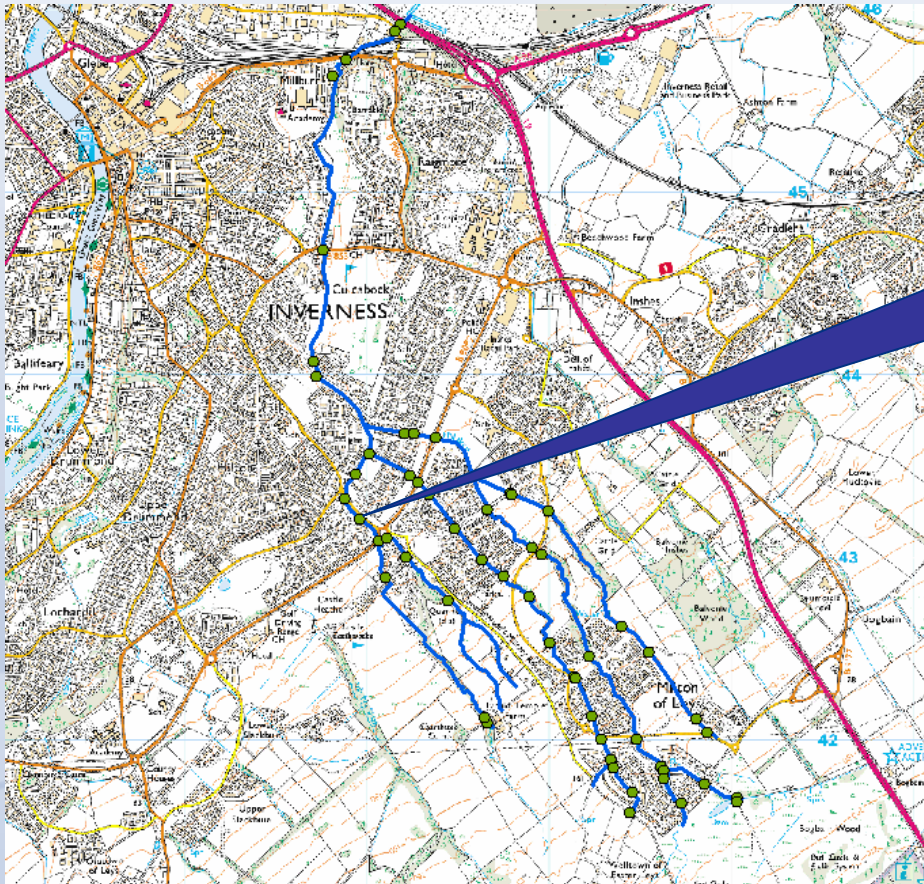


Integration with WDM

- WDM is an integrated asset management system
- Includes several modules including ELM (Environmental Landscape Manager)
- WDM to be used by Flood Team to manage watercourse inspections and to generate works instructions for minor maintenance works (issued to R&CW)
- Flood Team procured 2 'tough-tabs' for Watercourse Assessments
- Built in GPS, Camera & Bluetooth



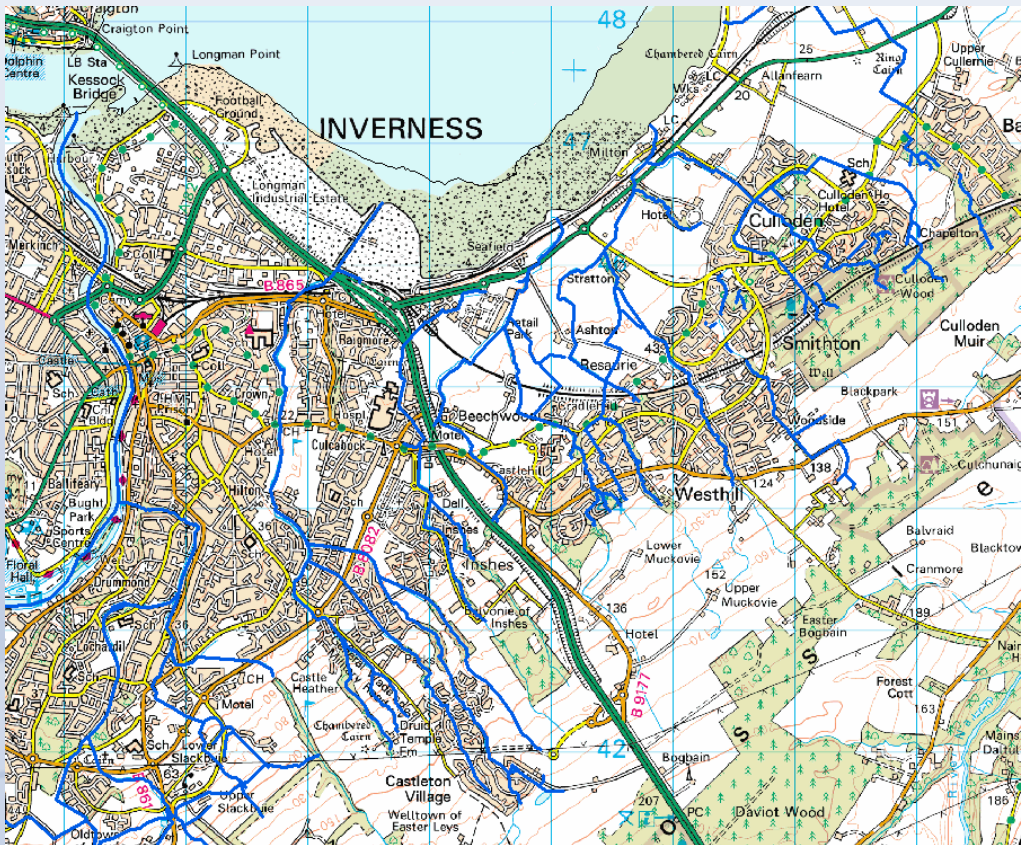
Mill Burn Pilot Project



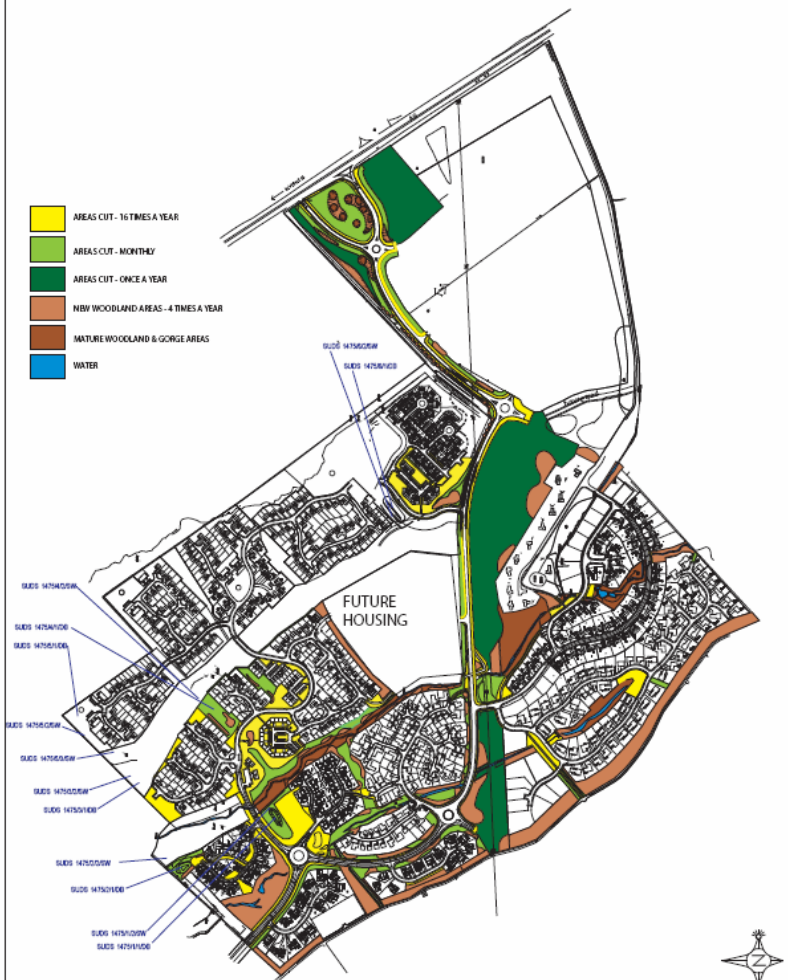
OID	22
THC_REF_NEW	
THC_REF_OLD	
THC_AREA	Inverness/18
RESPONSIBLE_OFFICE	Inverness, Nairn, Badenoch & Strathpey
TOWN	Dirveight Rd Depot
LOCATION	Inverness
FEATURE	Access Road to Castle Heather
DIMENSIONS	3 No. Concrete Culverts
STRUCTURE_HISTORY	3 x 600mm dia
HYDROMETRIC_AREA	6
START_EAST	267968
START_NORTH	843208
END_EAST	n/a
END_NORTH	n/a
WATERBODY	Mill Burn
PRIORITY	1
INSPECTION_INTERVAL	Monthly
DATE_OF_LAST_INSPECTION	
DATE_OF_NEXT_INSPECTION	
INSPECTION_HISTORY	
IMAGE	
COMMENT	

- Referencing system developed for watercourses and structures
- Unique references include:
 - Hydrometric area
 - All tributaries up to main watercourse

Mapping



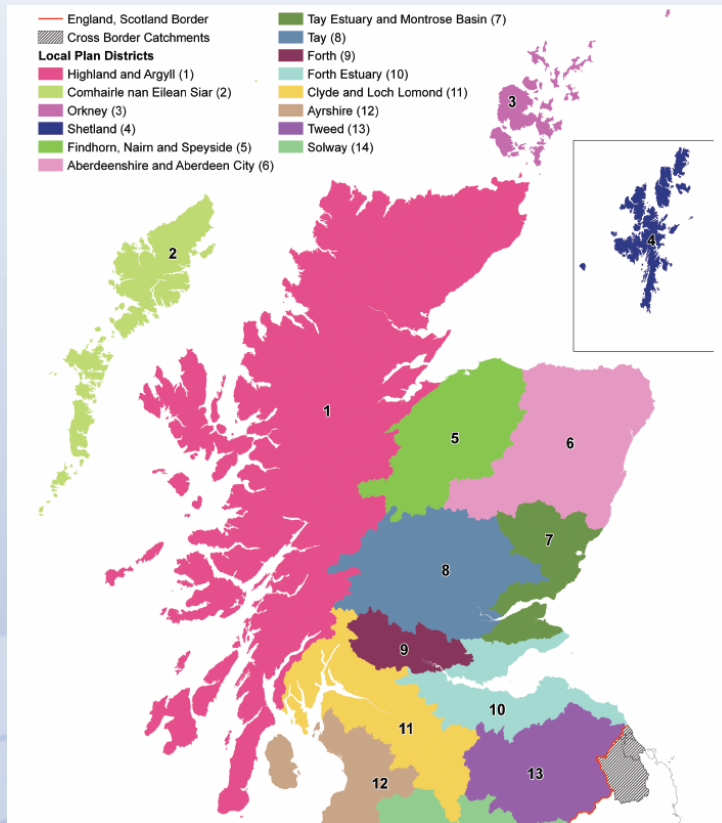
- Waterbody restricted to 112 high risk areas at present
- Currently awaiting further guidance from SG with regards to DRN licensing agreement with OS/CEH
- Also in the process of:
 - Collating information on and mapping of SuDS scheme
 - Mapping flood protection schemes



- Information collated from:
 - Planning Department
 - Land/open space management companies
 - Building Control
 - Developers
 - Roads Team (RCC's)
- As-built drawings required
- Information on adoption required
- Flood Team in process of designing a procedure to:
 - record new SuDS schemes
 - Ensure adequate inspection during and after construction
 - Integrate SuDS into inspection regime
- Section 7 Agreement with SW (under terms of Sewerage (Scotland) Act 1968)

Maintenance Plan, GreenBelt – Inverness, Milton of Leys Development

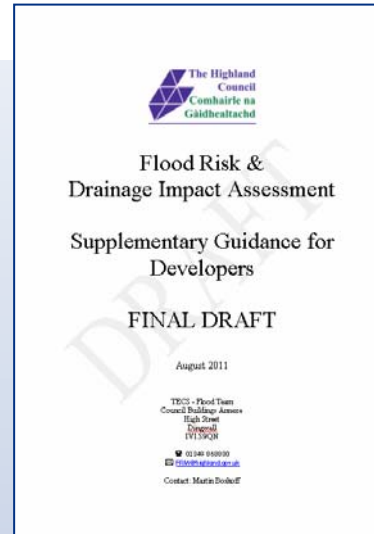
Flood Risk Management Advisory Group and Plan



- Highland & Argyll Local Plan
- ‘Lead Authority’ yet to be announced but likely to be identified by end of 2011
- Local partnerships to be established in 2012 to discuss production of Flood Risk Management Strategies
- SEPA has responsibility for establishing the remit, membership and procedure of Flood Advisory Groups

Planning & Development Management

- Frequent TECS Training & Surgeries
- Screening of weekly planning lists
- Training for Planning Staff soon
- Major application meetings
- FRA/DIA Supplementary Planning guidance (to committee 21st Aug):
 - Sets out THC requirements
 - Watercourse buffer zones
 - Proportional DIA requirements
 - Self-certification
- Software & other tools:
 - ArcGIS, FEH, StormScope
 - Flood maps & other datasets



The Highland Council
Comhairle na Gàidhealtachd

FRA and DIA Guidance
Assessment Compliance Certificate

I certify that all reasonable skill, care and attention to be expected of a qualified and experienced professional in this field has been exercised in carrying out the attached Assessment. I also declare that I maintain the required Professional Indemnity Insurance*. The report has been prepared in support of the below named development in accordance with the reporting requirements issued by The Highland Council.

Please select Assessment type:

Flood Risk Assessment Drainage Impact Assessment

Additional Information

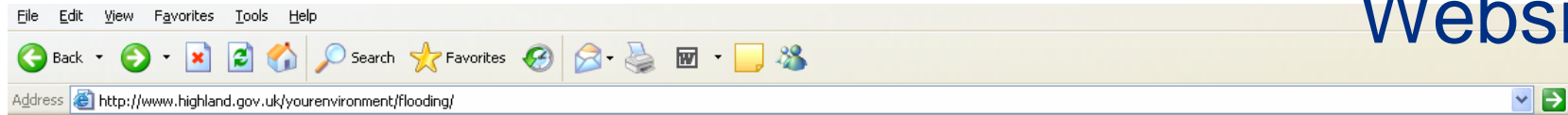
Assessment Ref No:	Professional Reference:
Assessment Date:	Planning Application No:
Name of Development:	
Address of Development:	
Name of Developer:	
Name and Address of Organisation preparing the Assessment:	
Name of Approver:	Date:
Signed:	
Position Held	
Qualification of person responsible for preparing the Assessment:	

* Please attach appropriate evidence of Professional Indemnity Insurance.
* A person qualified to an appropriate Qualified Engineering Institution (if applicable)



Flood Alleviation Schemes & Flood Studies

- Currently promoting 7 major flood alleviation schemes
- SW Inverness Flood Relief Channel currently under construction - £16m
- Current Capital Programme allows flexibility for promoting flood schemes but not supportive financially
- THC using Mill Burn as pilot project under new FRM Act
- Further guidance on new statutory process considered critical
- Three flood studies currently under consideration namely Inverness East, River Gynack & Loch Linnhe



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H	I	J	K	L	M	N
O	P	Q	R	S	T	U
V	W	X	Y	Z		

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/ Home / Your Environment / Flooding

Flooding

Flooding can have a devastating effect on people, property, businesses, infrastructure and land but it is a natural process that cannot be prevented entirely. A wide range of actions can be taken however to reduce the likelihood and impacts of flooding. In Scotland a number of authorities are working together to manage the risk of flooding and to provide flood warning, flood alleviation, emergency assistance and advice.

Individual property owners too have a crucial role to play in local flood risk management. It's long established under Common Law that a property owner should take responsibility for the safety and security of their own property. This includes taking steps to reduce the risk of flooding provided these actions do not exacerbate flood risk elsewhere.

On these pages you can find guidance on the roles and responsibilities of the different organisations involved in flood risk management in Scotland, advice on protecting your property or land, information on flood warning, information on flood alleviation schemes currently being developed by the Council as well as an explanation of the legislative framework that we operate under.

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subscribe to this category | my alerts

In This Section

- Legislative Framework
- Who does what
- Highland Flood Liaison and Advisory Group
- Protecting your Property
- Flood Alleviation Schemes
- Flooding July 2011
- Flooding October 2006
- Contacts
- Biennial Reports

External Links

- Floodline Scotland
- The Scottish Government
- Scottish Environment Protection Agency
- Scottish Water

Contact Us | Disclaimer | Internet Safety | Freedom of Information | Links

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Last Updated: 25/03/2011

Authors Notes:



Flood Risk Management



Intranet Site








Flooding can have a devastating effect on people, property, businesses, infrastructure and land but it is a natural process that cannot be prevented entirely. A wide range of actions can be taken however to reduce the likelihood and impacts of flooding.

On this page you can find guidance on the roles and responsibilities of the Highland Council with respect to flooding as well as general information regarding flood risk management in the Highland Council area. This site is aimed at being a dedicated repository for all flood related information and will be updated regularly by the Flood Team.

Flood Team	Contact
Flood Risk Management (Scotland) Act 2009	Other Flood Related Legislation
Flood Warning	Flood Monitoring
Report a Flood Incident	Watercourse Assessment
Planning & Development Control	Policies
Flood Protection Schemes	Guidance
SuDS	Biennial Reports
Useful Links	Insurance
General Repository	

Flood Team

The Flood Team was established during March 2010 to ensure that the Council meets its statutory obligations in respect of the Flood Risk Management (Scotland) Act 2009. In particular the Flood Team have been tasked to:

-  Develop strategies to deal with flood risk including guidance and procedures
-  Maintain all flood information, prepare flood plans and maintain flood data bases
-  Control and develop flood protection schemes, and monitor all necessary flood maintenance activities within the Council
-  Represent the Council at all flood organisational meetings
-  Provide advice on planning applications in relation to flood and drainage matters
-  Contribute to the Council's Development Plan and Local Plan process in terms of land use and ensure that the local flood plans integrate with planning policy and strategies
-  Liaise with SEPA staff and staff in neighbouring local authorities, and ensure that their respective plans are integrated

Contact

The Highland Council
 T.E.C Services
 Project Design Unit - Flood Team
 Council Buildings Annex...
 High Street ...
 Dingwall ...
 IV15 9QN

Tel: (01349) 868800
 Fax: (01349) 864031
 Email: FRM@highland.gov.uk

T.E.C SERVICES - PROJECT DESIGN UNIT - FLOOD TEAM FLOOD INCIDENT REPORT

FLOOD RISK MANAGEMENT ACT (SCOTLAND) 2009 FLOODING INCIDENT REPORT

Location of Flood: _____ Date: _____ Time: _____ Duration of Flood: _____

Date/Time: _____

Water Course Name/Ref: _____

Starting: _____ Nothing: _____

Grid Reference: Town/Village Flood on Normal River Flood in Region Specific Location

Flooding Source: Flood Coastal Reservoir Ground Water Sewer Flood Surface Runoff Other

Description of Flood (include depth if known): _____

Residential Commercial Other (please state): _____

Impact and Threat to People and Properties (please give details): _____

Essential Environmental Assets Properties/Road

Work Required: _____

Does the site have a history of flooding: YES NO

Recording Officer: _____

Date Completed: _____

FOR INTERNAL USE ONLY - Source of Notification:

Name: _____

Address: _____

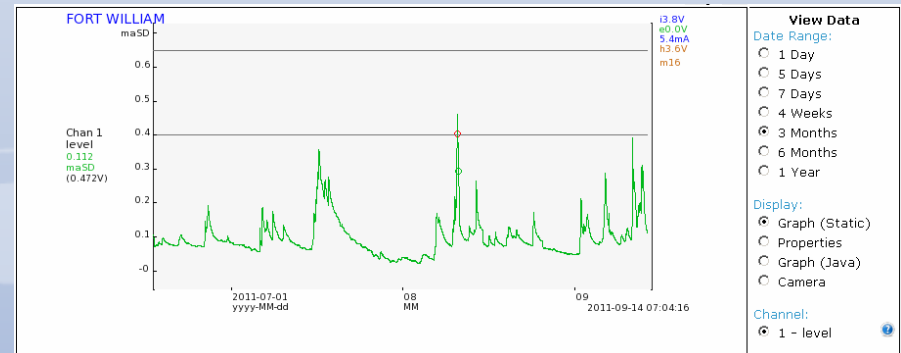
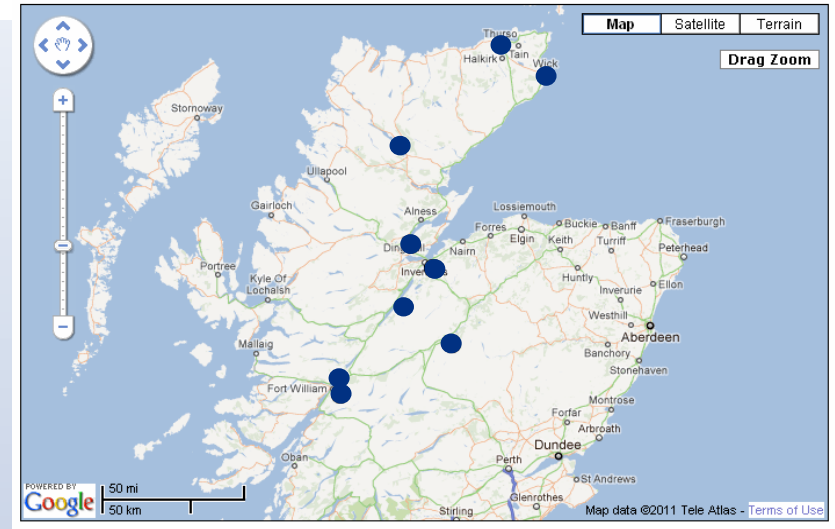
Contact No: _____



Flood Monitoring

- Designed to manage flood risk in situations where:
 - Where alleviation/maintenance works are scheduled but not for the immediate future
 - No funding is available for addressing the issue
 - Unusual situations e.g. Lower Foyers
 - Flood risk is a nuisance as opposed to direct threat to property
- 9 Monitors in operation, 2 more planned
- Telemetred + web-based data management

Highland Council



Post-flood Surveys



POST-FLOOD SURVEY

1. Your Details:

Name:			
Address:			
Telephone (daytime):		Telephone (evening):	

Please note that this information will be regarded as confidential and will only be used for the purpose of this post-flood survey.

2. History of Flooding

- 2.1 Are you aware of any history of flooding from watercourses or drains in the area? (if yes can you please provide further details and a sketch (if appropriate) in space provided below) YES NO
- 2.2 For how long have you lived in the area or known about flooding in this area? Years

3. Description of Flooding

3.1 Areas affected?

The inside of a house(s)	YES	NO	Please give details:
The underdrawings of a house(s)	YES	NO	
Garage / Shed	YES	NO	
Garden / Drive / Footpath	YES	NO	
The Road / Highway	YES	NO	
Fields / Open land	YES	NO	

3.2 How deep was the flood?

3.3 How often does the flooding occur?
 Every number of years? Years
 More than number of times in the past year? Year/Months

3.4 Do you know any specific dates? If so, please list:

3.5 Do you have any documentary evidence? (please ring all that apply)
 Photos / Press cuttings / Videos / Other

4. Source of Flooding

4.1 If known, where was the water coming from?
 If yes, can you describe the location? *Please give details:*

Out of your drains	YES	NO	
Out of drains (gullies) in the road	YES	NO	
Out of Manholes in the road	YES	NO	
From a burn or stream	YES	NO	
Surface water	YES	NO	
Ground water	YES	NO	
From land drain	YES	NO	
Don't know	YES	NO	

4.2 If known, what path did the flood water take to the affected area(s)?

4.3 If known, did it have foul sewage in it? YES NO

5. Other Information

5.1 Are there any further comments, details or sketches you feel would be useful in order to describe the flooding? If so, please include them below.

If you have attached any photographs, documents, plans etc to this questionnaire and would like them returned, please tick this box.

Thank you for taking the time to complete this questionnaire.
 Please return it in the pre-paid envelope provided to:
 The Highland Council, T.E.C Services, FLOOD TEAM, Council Buildings Annex, High Street, DINGWALL, IV15 9QN



Flood Leaflet

Managing Flood Risk in the Highlands

A' Stiùireadh Cunnart Tuile sa Ghàidhealtachd



www.highland.gov.uk/flooding

- To be distributed to THC Service Points
- Letter Drops to riparian owners in heavily urbanised areas
- Set's out roles and responsibilities and 'do's and don'ts'
- Currently available from THC website (flooding page)

Recommendations

- Take time out to plan and to build inter-organisational links
- Obtain good Legal Advice
- Strong GIS system considered critical
- Accurate and flexible asset database
- Take a risk based approach
- Clearly divide roles and responsibilities
- Design internal process flow charts
- Build strong links with SEPA in particular
- Learn from other Local Authorities