

# **Black Sluice Internal Drainage Board**

## **Risk Management Strategy**

## **Risk Management Policy**

## **Risk Analysis**

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# **Risk Management Strategy**

## **1. Purpose, Aims and Objectives**

1.1 The purpose of the Boards Risk Management Strategy is to effectively manage potential opportunities and threats to the Board achieving its objectives. See attached Risk Management Policy Statement, Appendix A.

1.2 The Boards Risk Management Strategy has the following aims and objectives;

- Integration of Risk Management into the culture of the Board
- Raising awareness of the need for Risk Management by all those connected with the delivery of services (including partners)
- Enabling the Board to anticipate and respond to changing social, environmental and legislative conditions
- Minimisation of injury, damage, loss and inconvenience to staff, members of the public, service users, assets etc. arising from or connected with the delivery of the Board services
- Introduction of a robust framework and procedures for identification, analysis, assessment and management of risk, and the reporting and recording of events, based on best practice
- Minimisation of the cost of risk

1.3 To achieve these aims and objectives, the following strategy is proposed;

- Establish clear accountabilities, roles and reporting lines for all employees
- Acquire and develop the necessary skills and expertise
- Provide for risk assessment in all decision making processes of the Board
- Develop a resource allocation framework to allocate (target) resources for risk management
- Develop procedures and guidelines for use across the Board
- Develop arrangements to measure performance of Risk Management activities against the aims and objectives
- To make all partners and service providers aware of the Boards' expectations on risk, both generally as set out in its Risk Management Policy and where necessary in particular areas of the Boards' operations.

1.4 The Black Sluice Internal Drainage Board has adopted the following definition of Risk:

'Risk is the threat that an event or action will adversely affect the organisation's ability to achieve its objectives and to successfully execute its strategies'.

## **2. Accountabilities, Roles and Reporting Lines**

- 2.1 A framework has been implemented that has addressed the following issues:
- The different types of risk – Strategic and Operational
  - Where it should be managed
  - Roles and accountabilities for all staff.
  - The need to drive the policy throughout the Board
  - Prompt reporting of accidents, losses, changes etc.
- 2.2 In many cases, risk management follows existing service management arrangements.
- 2.3 Strategic risk is best managed by the Board.
- 2.4 The Board's Chief Executive will be responsible for the Board's overall risk management strategy, and will report directly to the Board.
- 2.5 The Board's Chief Executive will be responsible for the Board's overall Health and Safety policy and will report to the Board.
- 2.6 It is envisaged that the development of a risk management strategy will encourage ownership of risk and will allow for easier monitoring and reporting on remedial actions / controls.

## **3. Skills and Expertise**

- 3.1 Having established roles and responsibilities for risk management, the Board must ensure that it has the skills and expertise necessary. It will achieve this by providing Risk Management Training for Employees and Board Members, where appropriate providing awareness courses that address the individual needs of both the manual workforce and office staff.
- 3.2 Training will focus on best practice in risk management, and awareness will also focus on specific risks in areas such as the following:
- Partnership working
  - Project management
  - Operation of Board vehicles and equipment
  - Manual labour tasks e.g. Health and Safety issues

## **4. Embedding Risk Management**

Risk management is an important part of the service planning process. This will enable both strategic and operational risk, as well as the accumulation of risks from a number of areas to be properly considered. Over time the Board aims to be able to demonstrate that there is a fully embedded process.

This strategy and the information contained within the appendices provides a framework to be used by all levels of staff and Members in the implementation of risk management as an integral part of good management.

## **5. Risks and the Decision Making Process**

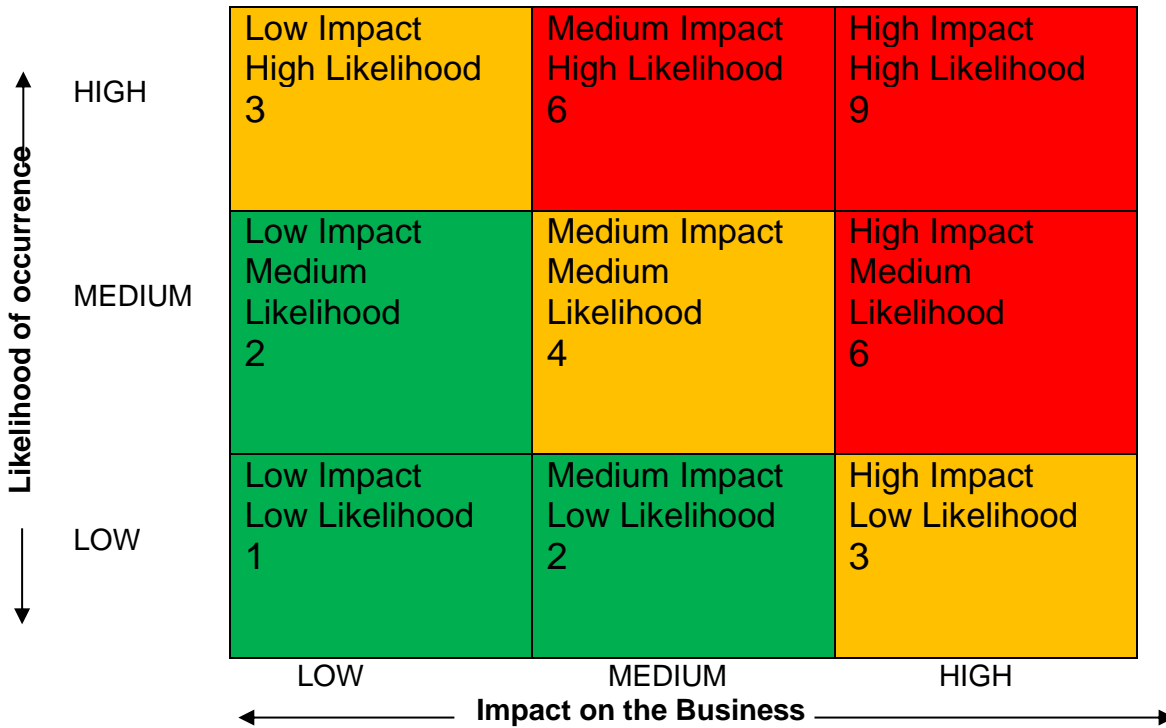
- 5.1 Risk needs to be addressed at the point at which decisions are being taken. Where Members and Officers are asked to make decisions they should be advised of the risks associated with recommendations being made. The training described in the preceding section will enable this to happen.
- 5.2 The Board will need to demonstrate that it took reasonable steps to consider the risks involved in a decision.
- 5.3 There needs to be a balance struck between efficiency of the decision making process and the need to address risk. Risk assessment is seen to be particularly valuable in options appraisal. All significant decision reports to the Board (including new and amended policies and strategies) should include an assessment of risk to demonstrate that risks (both threats and opportunities) have been addressed.
- 5.4 This process does not guarantee that decisions will always be right but it will demonstrate that the risks have been considered and the evidence will support this.

## **6. Supporting Innovation and Improvement**

- 6.1 Managers have been made aware that there are a number of tools that can be used to help identify potential risks:
  - Workshops.
  - Scenario planning.
  - Analysing past claims and other losses.
  - Analysing past corporate incidents/failures.
  - Health & safety inspections.
  - Induction training.
  - Performance Review & Development interviews.
  - Staff and customer feedback.
- 6.2 Having identified areas of potential risk, they must be analysed by:
  - An assessment of impact.
  - An assessment of likelihood.

This is to be done by recording the results using the risk matrix below:

**RISK ASSESSMENT MATRIX**



The high, medium and low categories for impact and likelihood are defined as follows:

**IMPACT**

- *High* – will have a catastrophic effect on the operation/service delivery. May result in major financial loss (over £100,000). Major service disruption (+ 5 days) or impact on the public. Death of an individual or several people. Complete failure of project or extreme delay (over 2 months). Many individual personal details compromised/revealed. Adverse publicity in national press.
- *Medium* – will have a noticeable effect on the operation/service delivery. May result in significant financial loss (over £25,000). Will cause a degree of disruption (2 – 5 days) or impact on the public. Severe injury to an individual or several people. Adverse effect on project/significant slippage. Some individual personal details compromised/revealed. Adverse publicity in local press.
- *Low* – where the consequences will not be severe and any associated losses and or financial implications will be low (up to £10,000). Negligible effect on service delivery (1 day). Minor injury or discomfort to an individual or several people. Isolated individual personal detail compromised/revealed. NB A number of low incidents may have a significant cumulative effect and require attention.

**LIKELIHOOD**

<b>High</b>	Very likely to happen	Matrix score 3
<b>Medium</b>	Likely to happen infrequently and difficult to predict	Matrix score 2
<b>Low</b>	Most unlikely to happen	Matrix score 1

## 7. Risk Control

7.1 Using the risk matrix produces a risk rating score that will enable risks to be prioritised using one or more of the “four T’s”

<b>Tolerate</b>	Score <= 2	Accept the risk
<b>Treat</b>	Score 3 to 5	If possible take cost effective in-house actions to reduce the risk.
<b>Transfer</b>	Score 6 to 8	Let someone else take the risk (eg by Insurance or passing responsibility for the risk to a contractor).
<b>Terminate</b>	Score 9	Agree that the risk is too high and do not proceed with the project or activity.

7.2 Risk assessment and risk matrices provide a powerful and easy to use tool for the identification, assessment and control of business risk. It enables managers to consider the whole range of categories of risk affecting a business activity. The technique can assist in the prioritisation of risks and decisions on allocation of resources. Decisions can then be made concerning the adequacy of existing control measures and the need for further action. It can be directed at the business activity as a whole or on individual departments/sections/functions or indeed projects.

## 8. Supporting Innovation and Improvement

8.1 Risk Management will be incorporated into the business planning process for the Board with a risk assessment of all business aims being undertaken as part of the annual Estimates process.

8.2 The Board’s internal auditor will have a role in reviewing the effectiveness of control measures that have been put in place to ensure that risk management measures are working.

## **RISK MANAGEMENT STRATEGY STATEMENT**

The Board believes that risk is a feature of all businesses. Some risks will always exist and can never be eliminated: they therefore need to be appropriately managed.

The Board recognises that it has a responsibility to manage hazards and risks and supports a structured and focused approach to managing them by approval each year of a Risk Management Strategy.

In this way the Board will improve its ability to achieve its strategic objectives and enhance the value of services it provides to the community.

### **The Boards Risk Management objectives are to:**

- Embed risk management into the culture and operations of the Board
- Adopt a systematic approach to risk management as an integral part of service planning and performance management
- Manage risk in accordance with best practice
- Anticipate and respond to changing social, environmental and legislative requirements
- Ensure all employees have clear responsibility for both the ownership and cost of risk and the tools to effectively reduce / control it

### **These objectives will be achieved by:**

- Establishing clear roles, responsibilities and reporting lines within the organisation for risk management
- Incorporating risk management in the Board's decision making and operational management processes
- Reinforcing the importance of effective risk management through training
- Incorporating risk management considerations into Service / Business Planning, Project Management, Partnerships & Procurement Processes
- Monitoring risk management arrangements on a regular basis

### **The benefits of Risk Management include:**

- Safer environment for all
- Improved public relations and reputation for the organisation
- Improved efficiency within the organisation
- Protect employees and others from harm
- Reduction in probability / size of uninsured or uninsurable losses
- Competitive Insurance Premiums (as insurers recognise the Board as being a "low risk")
- Maximise efficient use of available resources.



## **RISK MANAGEMENT POLICY DOCUMENT**

In all types of undertaking, there is the potential for events and consequences that may either be opportunities for benefit or threats to success. Internal Drainage Boards are no different and risk management is increasingly recognised as being central to their strategic management. It is a process whereby Internal Drainage Boards methodically address the risks associated with what they do and the services which they provide. The focus of good risk management is to identify what can go wrong and take steps to avoid this or successfully manage the consequences.

Risk management is not just about financial management; it is about achieving the objectives of the organisation to deliver high quality public services.

The failure to manage risks effectively can be expensive in terms of litigation and reputation, the ability to achieve desired targets, and, eventually, the level of the drainage rates.

Internal Drainage Boards need to keep under review and, if need be, strengthen their own corporate governance arrangements, thereby improving their stewardship of public funds and providing positive and continuing assurance to ratepayers. The Board already looks at risk as part of their day to day activities but there is now a need to look at, adapt, improve where necessary and document existing processes.

The proposal to carry out future capital and maintenance works on the current Environment Agency pumping stations and main rivers within the catchment will introduce increased risks to the Board.

The Board's existing risk management plans and policies will be applied to the works programmes with a special emphasis on Policy No. 41, Public Sector Co-Operation Agreement Policy "The signed agreement must be returned and orders provided prior to the commencement of any works".

Members are ultimately responsible for risk management because risks threaten the achievement of policy objectives. As a minimum, the members should, at least once each year:

- a) take steps to identify and update key risks facing the Board;
- b) evaluate the potential consequences to the Board if an event identified as a risk takes place; and
- c) decide upon appropriate measures to avoid, reduce or control the risk or its consequences.

This Risk Management Policy document is designed to be a living document which will be continually updated when new risks are identified or when existing risks change.

The assessment of potential impact will be classified as high, medium or low. At the same time it will assess how likely a risk is to occur and this will enable the Board to decide which risks it should pay most attention to when considering what measures to take to manage the risks.

After identifying and evaluating risks the responsible officer will need to decide upon appropriate measures to take in order to avoid, reduce or control the risks or their consequence.

## RISK ANALYSIS

### 1. TO PROVIDE AND MAINTAIN STANDARDS OF NEEDS BASED SUSTAINABLE FLOOD PROTECTION

#### 1.1 Risk of Being Unable to Prevent Flooding to Property or Land

The Board's main objective is to provide satisfactory water level management within the Board's area.

Flooding could occur in the following ways:

- From failure of coastal defences which are maintained by EA
- From EA Watercourses
- From IDB watercourses
- From riparian watercourses
- From sewers maintained by other authorities
- From surface water

##### (a) Coastal flooding from failure or overtopping of defences

Consequence: Land and Properties could be subjected to flooding and IDB Pumping Stations could be required to deal with substantial additional flows

How risk is managed: Board works with lead local flood authority, Environment Agency and the Wash Frontage Group.

Future Work: Lobbying of government representative

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>Low</b>	<b>3</b>

##### (b) Fluvial flooding from failure or overtopping of defences

Consequence: Land and Properties could be subjected to flooding and IDB Pumping Stations could be required to deal with Substantial additional flows

How risk is managed: Board works with lead local flood authority  
Pumping Stations Additional Resilience  
Partnership working with EA including PSCA  
Agreement with EA to switch off selected pumps if levels reach 2.7m ODN at Black Hole Drove PS

Future Work: Waiting for the EA Management Plan to be published on the operation of the sluice and nav lock at Black Sluice Pumping Station.

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>MEDIUM</b>	<b>6</b>

(c) Flooding from failure of IDB pumping stations or excess rainfall

Consequence: Land and Properties could be subjected to flooding and IDB Pumping Stations could be required to deal with Substantial additional flows

How risk is managed: Board works with lead local flood authority  
PTO gear boxes and generator connections.

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>LOW</b>	<b>3</b>

(d) Flooding from Sewers or riparian watercourses

Consequence: Small areas of land and maybe some properties could be subjected to flooding

How risk is managed: Board works with lead local flood authority

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**1.2 Risk of Loss of Electrical Supply**

The Board relies on electrical power for all pumping stations. Loss of supply could be encountered for a number of reasons in the future.

Consequence: Pumping stations would fail to operate  
Office and Depot would be unable to function  
Telemetry system fails to operate

How risk is managed: Dual drive gearboxes installed at pumping stations to enable pumps to be operated by a tractor  
Large pumping stations have generator connections but the Board would have to hire in generators which may be in short supply  
UPS system fitted to telemetry computer, Main server and Phone System

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>LOW</b>	<b>3</b>

### 1.3 Risk of Pumps Failing to Operate

Consequence: High water levels and possible flooding  
Extra expenditure on pumping station maintenance

How risk is managed: Pumping Engineer checks at regular intervals  
Refurbishment of plant is continuously programmed  
Continued investment planned for pumping stations

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>LOW</b>	<b>3</b>

### 1.4 Risk of Board Watercourses being Unable to Convey Water

Consequence: High water levels and possible flooding from over topping  
Extra expenditure on drain maintenance

How risk is managed: Asset conditions are shown on a database  
All watercourses are cleared of weed growth once each year  
All watercourses are desilted on a regular basis  
Board regularly check and clear out culverts

Further work: Continue to review asset conditions in asset database

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 1.5 Risk of Operating Machinery to Maintain Watercourses

The Board operates excavators and tractor mounted machines to remove weed growth and silt from watercourses. There are risks in operating this machinery.

Risk: Hitting overhead electrical services  
Hitting underground electrical services  
Machines falling into watercourse  
Parts of machine hitting people or other vehicles

Consequence: Damage to Third parties  
Damage to plant & vehicles  
Injury to staff

How risk is managed: Machinery is regularly serviced  
Machinery is checked twice each year by a qualified engineer  
Health and Safety Policy, reported annually to the Board  
Health and Safety Consultant employed  
All drivers are suitably trained  
All drivers are provided with the required safety equipment  
All machinery is insured by the Board

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**1.6 Risk of Claims from Third Parties for damage to property or injury**

Risk: The Board could cause damage to property or injury due to their actions  
 Hitting overhead/underground electrical services  
 Machines falling into watercourses  
 Damage to Third parties  
 Damage to plant & vehicles

Consequence: Injury to staff  
 Loss of income  
 Extra work for staff

How risk is managed: The Board has adequate insurance  
 The Board train staff to undertake works safely  
 Risk assessments are carried out

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**1.7 Risk of Third Parties damage to Board maintained assets**

Risk: Damage to Board Maintained Assets  
 Damage to Board Owned Assets

Consequence: Assets not performing as they are designed to.

How risk is managed: Managed Assets – Board Byelaws  
 Owned Assets - Insurance

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**1.8 Risk of Loss of Senior Staff**

Consequence: Inability to operate efficiently

How risk is managed: Should staff from the Emergency response Team not be available during a prolonged event cover should be implemented as per the emergency response plan  
 Hire in temporary staff from Agencies or other local Drainage Boards  
 Formalised arrangements to share staff from other drainage boards

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 1.9 Insufficient Finance to Carry Out Works

Consequence: Watercourses not maintained in satisfactory condition  
Pumping Stations more at risk of failure  
Increased risk of poor drainage and flooding  
Significant unexpected costs to respond to incidents or extended periods of wet weather.

How risk is managed: Ten year budget to ensure adequate funding  
The Board maintains reserves at a level sufficient to respond to incidents and extended periods of wet weather.

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 1.10 Reduction in Staff Performance

Consequence: Reduced standards of maintenance

How risk is managed: Ongoing continuous supervision, advice, training, line management motivation and appraisal.  
Management systems

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 1.11 Insufficient Staff Resources

Consequence: Reduced standards of maintenance  
Reduced value for money

How risk is managed: Review by senior management  
Reports to Executive Committee  
Terms of Employment regularly reviewed to remain competitive

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**2. TO CONSERVE AND ENHANCE THE ENVIRONMENT WHEREVER PRACTICAL AND POSSIBLE TO ENSURE THERE IS NO NET LOSS OF BIODIVERSITY**

**2.1 Risk of Prosecution for not Adhering to Environmental Legislation**

The Board have responsibilities to promote nature conservation and the environment

Consequence: Prosecution for damage to habitat  
Injury or death of fish, birds or mammals

How risk is managed: Board employs an environmental consultant for reports and advice  
Workforce are trained in environmental matters  
Working within the restraints of the Board's Biodiversity Action Plan  
Environmental clean-up liability Insurance (£1m)

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**2.2 Non Delivery of Objectives**

Consequence: Biodiversity Action Plan not complied with

How risk is managed: Projects included in capital plan

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

**3. TO PROVIDE A 24 HOUR/365 DAY EMERGENCY RESPONSE FOR THE COMMUNITY**

**3.1 Emergency Plan Inadequate or Not up to Date**

Consequence: Difficulties in emergency situation

How risk is managed: Regular review of plan

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

**3.2 Insufficient Resources (Staff and Equipment)**

Consequence: Inability to provide adequate response

How risk is managed: Shared resources with neighbouring Boards  
Use local farmer/landowner resources  
Review resources available

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 3.3 Risk of Critical Incident Loss of Office

Consequence: Risk of an incident preventing the use of anything at the offices

How risk is managed: Insurance for additional cost of working/business interruption (£100k over a 12 Months period)  
Remote Backups to HBP servers kept for 365 days

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>LOW</b>	<b>3</b>

## 4. TO PROVIDE A SAFE AND FULFILLING WORKING ENVIRONMENT FOR STAFF

### 4.1 Risk of Injury to Staff and Subsequent Claims and Losses

Consequence: Injury to staff  
Claims for losses  
Senior staff liable under Corporate Manslaughter Legislation

How risk is managed: Health and Safety Policy, reported annually to the Board  
Health and Safety Consultant employed  
Staff are trained for the duties that they are required to perform  
Risk assessments are carried out for all activities  
Employers Liability Insurance (£15m)  
Personal Accident Insurance (£60k & £100pw)

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 4.2 Risk of not complying with Health & Safety Legislation

If Health & Safety legislation is not complied with there is a risk of work being stopped and officers being prosecuted.

Consequence: Fines and serious delays in work programme

How risk is managed: A health and safety consultant is employed to advise on policy, monitor legislation and to check Health & Safety risk assessments  
Board Health & Safety policy is developed under their guidance  
Regular training of all staff  
Insurance for Manslaughter Costs and Safety Legislation costs (£1m each)

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>LOW</b>	<b>3</b>



## **5. TO MAINTAIN FINANCIAL RECORDS THAT ARE CORRECT AND COMPLY WITH ALL RECOMMENDED ACCOUNTING PRACTICE**

### **5.1 Risk of Loss of Cash**

Very little cash collected at office

Consequence: Loss of income

How risk is managed: Money placed in safe and banked as soon as possible  
Insurance (£500 out of safe overnight to £5,000 during business hours)  
A maximum of £500 petty cash is held

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

### **5.2 Risk of Loss of Money invested in Building Societies & Banks & Managed Funds**

Consequence: Loss of income

How risk is managed: Money is placed with known Building Societies and banks on the FCA Register  
A maximum of £300,000 is invested in an individual organisation as per the Investment Policy  
Maximum of £500,000 invested in a managed fund.  
The Executive Committee of the Board reviews the investments on a regular basis

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### **5.3 Risk of Fraud by Senior Officers**

Consequence: Loss of money

How risk is managed: Two Officers always have to sign each mandate for a transaction  
All purchase ledger transactions are reviewed by the Board  
The Board has adequate insurance

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

#### 5.4 Risk of Inadequacy of Internal Checks

Consequence: Risk of incorrect payments being made

How risk is managed: All items resulting in payments being made by the Board are checked before being processed

All Payments made through the Board's Bank Accounts are authorised by two authorised signatories as per the Financial Regulations

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

#### 5.5 Fraudulent use of Credit Cards

Consequence: Loss of money

How risk is managed: The Board has insurance up to £1,000 per card (Card limits £5k, £5k & £2,500)  
Card expenditure is reconciled monthly and certified by both CEO & FM

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>MEDIUM</b>	<b>2</b>

### 6. TO ENSURE THAT ALL ACTIONS TAKEN BY THE BOARD COMPLY WITH ALL CURRENT UK AND EU LEGISLATION

#### 6.1 Risks to Board Members

There are 21 Board Members who make decisions on the operation of the Board

Risk: Board Members make decisions that involve the Board in extra expense

Consequence: Liability of Board Members

How risk is managed: Insurance (£3m Legal Liability Cover)  
Qualified and experienced staff advise the Board

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

#### 6.2 Risk of not complying with all Employment Regulations and Laws

There is a risk that the Board may not comply with all regulations and laws.

Consequence: Claims against the Board

How risk is managed: Insurance (£1m Employment Practices Cover)  
Advice from consultants and solicitors and the industry  
Finance Manager has regular training in employment law

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

## 7. A COST EFFICIENT IDB THAT PROVIDES VALUE FOR MONEY SERVICE

### 7.1 Risk of Collecting insufficient Income to Fund Expenditure

Consequence: Inability to pay staff and creditors  
Inability to maintain drains and pumping stations in a satisfactory condition

How risk is managed: Monthly finance reports sent to Members of Executive Committee  
Reports to Board Meetings  
Cash flow forecasting by Finance Manager  
Comprehensive Annual Budgets and ten year estimates produced

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

### 7.2 IDB abolished or taken over

Consequence: Loss of direction from local members

How risk is managed: Association of Drainage Authorities lobbies on behalf of IDB's  
Regular dialogue with local MP's

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

## 8. INFORMATION TECHNOLOGY & COMMUNICATIONS

### 8.1 Risk of Loss of Telemetry

Consequence: If the telemetry fails then it will be more difficult to manage the pumping stations

How risk is managed: Continual review of hardware and software  
Back up computers  
Workmen already assigned to pumping stations can be sent to check on conditions  
High Capacity UPS (Battery Backup) in place in case of power cut

Further Work: Continue to maintain trained staff to monitor telemetry  
Work ongoing to upgrade the Telemetry Systems including the ability for remote operation.

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**8.2 Risk of Loss of Telephone Communications**

Consequence: Inability to communicate decisions

How risk is managed: All staff have mobile telephones  
 14 VOIP phones (6 with power supplies to be able to be used anywhere with an internet connection)  
 2 Analog lines on site  
 UPS (Battery Backup) on Communications Cabinet  
 4G Assure on one of the Broadband lines if landlines fail

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>LOW</b>	<b>LOW</b>	<b>1</b>

**8.3 Risk of Loss of Internet Connections**

Consequence: Unable to remotely connect to office and Telemetry resulting in Employee having to be on site in an event  
 Unable to make bank payments  
 Unable to access information on internet

How risk is managed: Two Fibre Broadband internet lines into office  
 4G Assure on one of the Broadband lines if landlines fail  
 Mobile Wifi Broadband contract maintained

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

**8.4 Risk of Network Failure**

Consequence: All computers and information inaccessible

How risk is managed: Proactive IT Maintenance Contract with external consultants including disaster recovery  
 4 hour response for server or Network failure  
 Staff with limited training and remote support

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>HIGH</b>	<b>LOW</b>	<b>3</b>

### 8.5 Risk of Breach in Cyber Security

Consequence: All computers and information inaccessible  
Risk of Data Protection Breach  
Security of Information (Keylogger)

How risk is managed: Proactive IT Maintenance Contract with external consultants  
4 hour response for server or Network failure  
Staff with limited training and remote support  
Staff Training (All staff have completed classroom and online training provided by our IT consultants and Sophos as a minimum)  
Unified Threat Management system installed and subscription maintained  
All information taken off site digitally is encrypted and password protected  
Remote Backups to HBP servers kept for 365 days

Further Work: Introduction of Electronic Information and Communication Systems Policy (was part of the 'White Book' previously)

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 8.6 Risk of Network Security Breach

Consequence: Unauthorised access to the Network and information stored on the network

How risk is managed: Unified Threat Management installed and subscription maintained  
Review of Network Security by IT consultants carried out

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 8.7 Risk of Virus being introduced to Network

Consequence: Malicious damage to hardware and information by various types of virus

How risk is managed: Sophos Antivirus installed on all servers, desktop computers and laptops and managed centrally  
Hard Firewall installed to prevent unauthorised person introducing virus  
Emails filtered off site by Message Defence and Office 365 to reduce likelihood of malicious attachments

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 8.8 Risk of Loss of Accounting Records

All of the Board's records are retained on the main server in the communications room

Consequence: Inability to pay staff  
Inability to pay creditors  
Difficulty in finalising accounts

How risk is managed: Insurance for Business interruption £100k for up to 12 months  
Computer systems are regularly reviewed by trained staff and external IT consultants  
Volume Shadow software copies back up every six hours  
Remote Backups to HBP servers kept for 365 days

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>

### 8.9 Risk of Loss of Rating Records

All of the Board's records are retained on the main server in the communications room

Consequence: Inability to check who has paid rates  
Loss of income  
Loss of records of occupiers of land

How risk is managed: Insurance for Business interruption £100k for up to 12 months  
Volume Shadow software copies back up every six hours  
Computer systems are regularly reviewed by trained staff and by external IT consultants  
Remote Backups to HBP servers kept for 365 days

Potential Impact of Risk	Potential likelihood of Risk	Risk Level
<b>MEDIUM</b>	<b>LOW</b>	<b>2</b>