



Planning for Emergencies

MERSEYSIDE RESILIENCE FORUM

Merseyside Community Risk Register

2019

INTRODUCTION

What is the Community Risk Register?

The Community Risk Register (CRR) has been compiled by the Merseyside Resilience Forum (MRF) to identify potential risks that may affect the communities of Merseyside. The MRF is a collaboration of multi-agency services / partners working together to prepare for emergencies on Merseyside, including:

British Transport Police (BTP)	Cadent
Clinical Commissioning Groups	Environment Agency (EA)
Health & Safety Executive (HSE)	Highways England
Knowsley Metropolitan Borough Council	Liverpool City Council
Liverpool John Lennon Airport	Maritime and Coastguard Agency (MCA)
Merseyside Fire & Rescue Service (MFRS)	Merseyside Police
Merseytravel	Mersey Tunnels Police
NHS England	National Grid Plc
North West Ambulance Service (NWAS)	Port of Liverpool Police
Public Health England	Sefton Metropolitan Borough Council
SP Energy Networks	St Helens Metropolitan Borough Council
Wirral Metropolitan Borough Council	United Utilities
Peel Ports	

The CRR provides the basis for the responder agencies to develop emergency plans and provides a guide for the preparedness work carried out by the MRF. The CRR is also intended to inform the public - individuals, families and businesses - of the range of potential disruptive events that these agencies have considered when making their plans, and to provide assurance that they are ready to deal with these emergencies to provide resilience for the communities that they serve.

How has the Community Risk Register Been Compiled?

The Government assesses hazards and threats that could affect the United Kingdom. These are published in the National Risk Register. It explains the likelihood of a risk occurring and, if it happens, the effects it may have.

Under the Civil Contingencies Act 2004 (CCA) all areas of the United Kingdom are required to establish a local resilience forum within the local Police Force area. The CCA places a legal duty on local emergency responders to carry out assessments on the risks to their area and publish them.

The register prioritises risks at a Merseyside level. It is a document that shows which risks have been identified to affect Merseyside. The likelihood of an event occurring has been assessed using historical evidence and projected occurrence data relating to the risk occurring over a five year period. The potential impact of such an emergency has been assessed with regard to health, social, economic and environmental effects in accordance with national guidance.

The inclusion of these hazards does not mean that the Merseyside Resilience Forum (MRF) believes the risk will materialise, or that if it were to do so, it would be at that scale. The risk scenarios are considered to be reasonable worst case assumptions upon which our risk assessment is based. The likelihood and impact assessments have been used to develop a Risk Rating of Low, Medium, High or Very High.

The attached risk assessments cover non-malicious and certain malicious events. This does not mean that we are not considering all malicious threats within our risk assessment work, but given the sensitivity of the information supporting these risk assessments and the potential for use by adversaries, specific details will not be made available via this document. Malicious attack scenarios that are being considered include, for example Conventional attacks using explosives, Chemical/Biological/Radiological attacks, Electronic attacks i.e. affecting utilities and communications.

Lead Responsibility

For the purpose of clarity, the Lead Responsibility refers to the organisation responsible for compiling the specific entry into the CRR. This does not necessarily denote responsibility for enacting risk treatment or for lead response in case of an incident.

To view the National Risk Register of Civil Emergencies please visit the Government website via the link below:

[National Risk Register for Civil Emergencies](#)

To view the Cabinet Office Guidance for Emergency Preparedness and Emergency Response & Recovery please visit the Government website via the links below:

[Emergency Preparedness](#)

[Emergency Response and Recovery](#)

Further information is also available on the Merseyside Prepared website via the links below:

www.merseysideprepared.org.uk

If you have any further queries please contact:

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HOW TO USE THE RISK REGISTER

Explanation of the Columns

Category	Hazard or Threat	Consequences	Risk Rating	Controls Currently in Place	Lead Responsibility

Categories of risk e.g. major accidents

Consequences or significance of the event e.g. what facilities are affected

Plans, procedures and guidance in place to minimise likelihood and impact of risk

Title of hazard or threat

Combination of the likelihood and impact, provides four possible outcomes from Low to Very High

Local lead responsibility for completing the risk assessment

2019 MERSEYSIDE COMMUNITY RISK REGISTER

RISK INDEX
NATURAL HAZARDS
Coastal Flooding
River Flooding
Surface Water Flooding
Storms and Gales
Cold and Snow
Heatwave
Drought
Space Weather
Volcanic Eruptions
Poor Air Quality
Earthquakes

2019 MERSEYSIDE COMMUNITY RISK REGISTER

DISEASES
Pandemic Influenza
Emerging Infectious Disease
Animal Disease
MAJOR ACCIDENTS
Widespread Electricity Failure
Transport Accidents
Industrial and Urban Accidents
System Failures
SOCIETAL RISKS
Industrial Action
Public Disorder

2019 MERSEYSIDE COMMUNITY RISK REGISTER

MALICIOUS ATTACKS
Attacks on Crowded Places
Attacks on Transport
Attacks on Infrastructure
Cyber Attacks on Infrastructure
Cyber Attacks on Services
Chemical, Biological, Radiological or Nuclear Attacks
LOCAL RISKS
Transport Accidents
Industrial and Urban Accidents
Industrial Action
Shellfish Harvesting
Wildfires
Temporary Risks – Festivals / Sporting / Leisure Events

2019 MERSEYSIDE COMMUNITY RISK REGISTER

Category	Hazard or Threat	Consequences	Risk Rating	Controls in Place	Lead Responsibility
Diseases	Pandemic Influenza	<p>Could cause:</p> <ul style="list-style-type: none"> Fatalities and large numbers of the UK population experiencing symptoms Disruption to essential services i.e. health and education Economic disruption i.e. business and tourism 	Very High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Annual seasonal Flu Vaccination campaign aimed at 75% uptake in people aged 65yrs and over plus people of all ages in key at risk groups Antiviral treatments as per national guidance National Emergency Plans International, national and local surveillance systems National stockpile of antiviral drugs 	Public Health England
Natural Hazards	Coastal Flooding	<p>Could cause:</p> <ul style="list-style-type: none"> Fatalities and casualties Evacuation and long-term shelter of residents and employees Widespread damage to property and infrastructure Disruption to essential services i.e. transport and energy Environmental damage or contamination i.e. sewage 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public EA Flood Warning System Met Office National Severe Weather Warning Service EA Inspection of flood defences National Emergency Plans Met Office Hazard Manager Service Environment Agency Regional Programme of Flooding Exercises 	Environment Agency (EA)
Natural Hazards	Surface Water Flooding	<p>Could cause:</p> <ul style="list-style-type: none"> Fatalities and casualties Evacuation and long-term shelter of residents and employees Widespread damage to property and infrastructure Disruption to essential services i.e. transport and energy Environmental damage or contamination i.e. sewage 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Met Office National Severe Weather Warning Service National Emergency Plans Met Office Hazard Manager Service Environment Agency Regional Programme of Flooding Exercises 	Local Authorities
Natural Hazards	Cold and Snow	<p>Could cause:</p> <ul style="list-style-type: none"> Fatalities and casualties, particularly among vulnerable groups i.e. elderly Evacuation of residents and employees Damage to property and infrastructure Disruption to essential services i.e. transport, energy and communications Additional pressure on healthcare Environmental damage 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Local Authorities' Winter Preparedness Plans Met Office National Severe Weather Warning Service Met Office Hazard Manager Service 	Local Authorities
Natural Hazards	Heatwave	<p>Could cause:</p> <ul style="list-style-type: none"> Fatalities and casualties, particularly among vulnerable groups i.e. elderly Evacuation of residents and employees Damage to property and infrastructure Disruption to essential services i.e. transport, energy and communications Additional pressure on healthcare Environmental damage 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Health & Safety at Work Act 1974 NHS England & PHE Heat Wave Plan for England Meteorological Warning Systems & Public Information Systems 	Public Health England
Natural Hazards	Space Weather	<p>Could cause:</p> <ul style="list-style-type: none"> Electricity blackouts Fatalities and casualties Disruption to global navigation satellite systems Disruption to essential services i.e. air travel, energy and communications Increases in background radiation doses in high atmosphere 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans National Grid Contingency plans for space weather. Electricity Supply Emergency Code Forecasting through Met Office Space Weather Operations Centre 	SP Energy Networks

Category	Hazard or Threat	Consequences	Risk Rating	Controls in Place	Lead Responsibility
Natural Hazards	Poor Air Quality	Could cause: <ul style="list-style-type: none"> Fatalities and casualties, by compounding pre-existing health conditions Pressure on healthcare i.e. hospital referrals, demands on ambulances Economic damage Environmental damage 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans 	Public Health England
Diseases	Emerging Infectious Disease	Could cause: <ul style="list-style-type: none"> Fatalities and large numbers of the UK population experiencing symptoms Disruption to essential services i.e. health and education Economic disruption i.e. business and tourism 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public MRF Pandemic Influenza Plan PHE Cheshire and Merseyside Outbreak of Infectious Diseases Plan Individual Responder Plans National Emergency Plans International, national and local surveillance systems, Infection Control Plans Business Continuity Plans 	Public Health England
Major Accidents	Widespread Electricity Failure	Could cause: <ul style="list-style-type: none"> Human fatalities and casualties Disruption or loss of essential services i.e. transport, food, water, fuel, gas, finance, communications and education Disruption to business i.e. lost working hours If blackouts are prolonged, potential disruption to healthcare, emergency services and emerging public disorder 	High	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Local and Regional Exercises 	SP Energy Networks
Malicious Attacks	Attacks on Crowded Places	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Damage to property and infrastructure Disruption to essential services i.e. transport, health, education Economic damage i.e. tourism Evacuation and shelter of local residents or employees 	High	<ul style="list-style-type: none"> Raising awareness – work of the counter terrorism security advisors Personal Safety Advice Circulated – ‘Run, Hide, Tell’ Emergency Services Specialist Resources Physical security measures where appropriate MRF Multi - agency Plans Warning & Informing the Public National Emergency Plans 	Merseyside Police
Malicious Attacks	Attacks on Transport	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Damage to property and infrastructure Disruption to essential services i.e. transport Disruption to tourism Disruption or interruption of imports Evacuation and shelter of local residents or employees 	High	<ul style="list-style-type: none"> Raising awareness – work of the counter terrorism security advisors Regulation and security processes of individual public transport sectors Contingency plans developed by operators in conjunction with responders MRF Multi - agency Plans Warning & Informing the Public National Emergency Plans 	Merseyside Police
Malicious Attacks	Attacks on Infrastructure	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Damage to property and infrastructure Disruption to essential services i.e. energy, transport, telecommunications Economic damage i.e. business Evacuation and shelter of local residents or employees 	High	<ul style="list-style-type: none"> Business continuity plans for loss of essential services helps to minimise disruption Raising awareness – work of the counter terrorism security advisors Programme of work to protect infrastructure Advice available from Centre for the Protection of National Infrastructure MRF Multi - agency Plans Warning & Informing the Public National Emergency Plans 	Merseyside Police
Malicious Attacks	Chemical, Biological, Radiological or Nuclear Attacks	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Damage to property and infrastructure Evacuation and shelter Disruption to critical services i.e. transport Environmental contamination i.e. natural or urban environments, animals, infrastructure, food, water 	High	<ul style="list-style-type: none"> Well-developed specialist response capability Access to medical-counter measures Individual Responder Plans National Emergency Plans & Resources MRF Multi - agency Plans Warning & Informing the Public 	Merseyside Police

Category	Hazard or Threat	Consequences	Risk Rating	Controls in Place	Lead Responsibility
Natural Hazards	River Flooding	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Evacuation and long-term shelter of residents and employees Widespread damage to property and infrastructure Disruption to essential services i.e. transport and energy Environmental damage or contamination i.e. sewage 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public EA Flood Warning System EA Inspection of flood defences SP Energy Networks System Emergency Plan National Emergency Plans Met Office National Severe Weather Warning Service Met Office Hazard Manager Service Environment Agency Regional Programme of Flooding Exercises 	Environment Agency (EA)
Major Accidents	Transport Accidents	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Disruption to essential services i.e. transport Disruption to business and tourism Damage to property and infrastructure Environmental contamination i.e. fuels, cargoes Evacuation and shelter of local residents and employees 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Rail, Road, Air, Marine Contingency Plans and Procedures 	Merseyside Police Maritime & Coastguard Agency Liverpool John Lennon Airport Merseyside Fire & Rescue Service British Transport Police
Major Accidents	System Failures	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Disruption to essential services i.e. energy, water, sewerage, fuel, finance and telecommunications Damage to property and infrastructure Economic damage i.e. businesses 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans 	Merseyside Police United Utilities Environment Agency SP Energy Networks Merseyside Fire & Rescue Service
Local Risks	Industrial and Urban Accidents	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Disruption to essential services i.e. energy, transport Damage to property and infrastructure Economic damage Environmental contamination i.e. oil, radiation Evacuation and shelter of affected people 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Local Exercise Programme 	Merseyside Fire & Rescue Service Merseyside Police Local Authorities
Natural Hazards	Storms and Gales	Could cause: <ul style="list-style-type: none"> Fatalities and casualties, particularly among vulnerable groups i.e. elderly Evacuation of residents and employees Damage to property and infrastructure Disruption to essential services i.e. transport, energy and communications Additional pressure on healthcare Environmental damage 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Met Office National Severe Weather Warning Service Met Office Hazard Manager Service 	Local Authorities
Natural Hazards	Drought	Could cause: <ul style="list-style-type: none"> Fatalities and casualties, particularly among vulnerable groups i.e. elderly Evacuation of residents and employees Damage to property and infrastructure Disruption to essential services i.e. transport, energy and communications Additional pressure on healthcare Environmental damage 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Water Resources Act 1991 Environment Agency Area Drought Contingency Plan 	Environment Agency
Natural Hazards	Volcanic Eruptions	Could cause: <ul style="list-style-type: none"> Casualties from poor air quality Disruption to essential services i.e. transport Economic damage i.e. disruption to air travel affecting business and tourism Environmental contamination i.e. to water and agriculture 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Decisions taken by Civil Aviation Authority CAA Guidance Regarding Flight Operations in the vicinity of Volcanic Activity Meteorological Office provides guidance on weather patterns and predictions regarding the ash cloud 	Liverpool John Lennon Airport (Fire)
Natural Hazards	Earthquakes	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Evacuation and shelter of affected people Damage to property and infrastructure Disruption to essential services i.e. water and agriculture 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Fire & Rescue Service's Resources & Equipment 	Merseyside Fire & Rescue Service

Category	Hazard or Threat	Consequences	Risk Rating	Controls in Place	Lead Responsibility
Malicious Attacks	Cyber Attacks on Infrastructure	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Loss of access to systems and information services Loss of confidentiality Loss of integrity where data is damaged or corrupted Disruption to critical services i.e. energy, health Economic damage i.e. businesses Reputational losses 	Medium	<ul style="list-style-type: none"> National Cyber Security Programme National Cyber Crime Unit Advice available from Centre for the Protection of National Infrastructure Individual Responder Plans MRF Multi - agency Plans Warning & Informing the Public 	Merseyside Police
Local Risks	Transport Accidents	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Disruption to essential services i.e. transport Disruption to business and tourism Damage to property and infrastructure Environmental contamination i.e. fuels, cargoes Evacuation and shelter of local residents and employees 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Rail, Road, Air, Marine Contingency Plans and Procedures 	Port of Liverpool Police Mersey Tunnels Police Highways England Merseyside Fire & Rescue Service Maritime & Coastguard Agency
Local Risks	Wildfires	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Evacuation and shelter of affected people Damage to property and infrastructure Disruption to essential services i.e. fire and rescue services Environmental damage i.e. air pollution and water contamination 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans Fire & Rescue Service's Resources & Equipment 	Merseyside Fire & Rescue Service
Major Accidents	Industrial and Urban Accidents	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Disruption to essential services i.e. energy, transport Damage to property and infrastructure Economic damage Environmental contamination i.e. oil, radiation Evacuation and shelter of affected people 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Local Exercise Programme 	Merseyside Fire & Rescue Service Merseyside Police Local Authorities
Societal Risks	Industrial Action	Could cause: <ul style="list-style-type: none"> Disruption to essential services i.e. transport, health, education Disruption to business i.e. lost working hours Public order challenges Economic damage i.e. transport sector 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Business Continuity Plans 	Merseyside Police British Transport Police
Societal Risks	Public Disorder	Could cause: <ul style="list-style-type: none"> Casualties Disruption to critical services i.e. policing, health Damage to property and infrastructure Evacuation and shelter Economic damage 	Medium	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans 	Merseyside Police
Diseases	Animal Disease	Could cause: <ul style="list-style-type: none"> Human fatalities and casualties Economic damage i.e. livestock industry Disruption to tourism and rural communities 	Low	<ul style="list-style-type: none"> MRF Multi - agency Plans Warning & Informing the Public Individual Responder Plans National Emergency Plans Local Authority Contingency Plans Animal Health Act 1981 and 2002 	Local Authorities
Malicious Attacks	Cyber Attacks on Services	Could cause: <ul style="list-style-type: none"> Fatalities and casualties Loss of access to systems and information services Loss of confidentiality Loss of integrity where data is damaged or corrupted Disruption to critical services i.e. energy, health Economic damage i.e. businesses Reputational losses 	Low	<ul style="list-style-type: none"> National Cyber Security Programme National Cyber Crime Unit Advice available from Centre for the Protection of National Infrastructure Individual Responder Plans MRF Multi - agency Plans Warning & Informing the Public 	Merseyside Police

Category	Hazard or Threat	Consequences	Risk Rating	Controls in Place	Lead Responsibility
Local Risks	Industrial Action	Could cause: <ul style="list-style-type: none"> • Disruption to essential services i.e. transport, health, education • Disruption to business i.e. lost working hours • Public order challenges • Economic damage i.e. transport sector 	Low	<ul style="list-style-type: none"> • MRF Multi - agency Plans • Warning & Informing the Public • Individual Responder Plans • National Emergency Plans • Business Continuity Plans 	North West Ambulance Service
Local Risks	Shellfish Harvesting	Could cause: <ul style="list-style-type: none"> • Fatalities and casualties • Public order challenges • Disruption to essential services i.e. transport 	Low	<ul style="list-style-type: none"> • MRF Multi - agency Plans • Warning & Informing the Public • Local Authorities' Operational Plans • North Western Inshore Fisheries and Conservation Authority 	Local Authorities
Local Risks	Temporary Risks – Festivals / Sporting / Leisure Events	Could cause: <ul style="list-style-type: none"> • Fatalities and casualties • Damage to property • Damage to environment 	Assessed by the event organiser for each event	<ul style="list-style-type: none"> • Event Organisers complete the risk assessment and submit them to multi agency safety advisory groups for consideration and approval • MRF Multi - agency Plans • Warning & Informing the Public • National Emergency Plans 	Event Organisers

