



# Planning for Emergencies

**MERSEYSIDE RESILIENCE FORUM**

Merseyside Community Risk Register  
2017

## 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)	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 (Gas)	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	

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 contains the areas of potential risk to the population and infrastructure of Merseyside and the nature of that risk. 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 at the magnitude reflected within the outcome description. 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, or the particular scenario (i.e. outcome description) 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 by using the Risk Matrix within this document.

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. Threat 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.

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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 &  
Recovery](#)

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

[www.merseysideprepared.org.uk](http://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**

H requires national and local response. HL local picture of a national H risk. L specific risk to an area

The likelihood of a risk occurring over a five year period, where 1=Low and 5=High

The impact if the risk should occur, where 1=Limited and 5=Catastrophic

Combination of the scores for likelihood and impact, provides 4 possible outcomes from Low to Very High

Risk Ref	Hazard or Threat Sub Category	Outcome Descriptor	Likelihood	Impact	Risk Rating	Controls Currently in Place	Lead Responsibility

Definition of the hazard or threat

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

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

Local lead responsibility for completing the risk assessment

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<b>RISK INDEX</b>	
<b>MAJOR INDUSTRIAL ACCIDENTS &amp; INDUSTRIAL ACCIDENTS</b>	
<b>Risk Ref</b>	<b>Hazard</b>
H1	Fire or explosion at a gas LPG (Liquefied Petroleum Gas) flammable gas storage site
HL26	Localised fire or explosion at an onshore ethylene gas pipeline
HL27	Localised fire or explosion at an oil refinery
HL7	Industrial explosions and major fires
H4	Fire or explosion at a fuel distribution site or a site storing flammable and/or toxic liquids in atmospheric pressure storage tanks
H5	Fire or explosion at an onshore fuel pipeline
H6	Fire or explosion on an offshore oil / gas installation
H7	Explosion at a high pressure gas pipeline
H9	Large toxic chemical release
H11	Accidental exposure to radioactive material from incorrectly handled stolen sources
H12	Biological substance release from facility where pathogens are handled deliberately (e.g. pathogen release from containment laboratory)
H14	Major contamination incident with widespread implications for the food chain arising from: an industrial accident affecting food production areas contamination of animal feed incidents arising from production processes
H15	Maritime Pollution
HL4	Major pollution of surface waters and groundwater
H38	Technical failure of a critical upstream oil/gas facility, gas import pipeline terminal, or Liquefied Natural Gas (LNG) import reception facility leading to a disruption in upstream oil and gas production
H39	Failure of water infrastructure or loss of drinking water
H40	Disruption or loss of telecommunication systems
H41	Total failure of GB's National Electricity Transmission Network as a result of severe weather conditions and technical failure
H45	Disruption to Regional Electricity Distribution or Transmission Network / System
H46	Biological substance release during an unrelated work activity or industrial process (e.g. Legionella release due to improperly maintained building environmental control systems)
H61	Industrial accident during remedial work on a legacy pond or silo facility at a civil nuclear installation holding large quantities of fissile material and radioactive waste

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<b>MAJOR TRANSPORT ACCIDENTS &amp; TRANSPORT ACCIDENTS</b>	
<b>Risk Ref</b>	<b>Hazard</b>
HL34	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters leading to the ship's evacuation or partial evacuation at sea
HL8	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters or on inland waterways, leading to the ship's evacuation.
HL37	Release of significant quantities of hazardous chemicals/materials as a result of major shipping accident
H16	Aviation accident over a semi-urban area
HL9	Aviation accident
HL10	Local accident on motorways and major trunk roads
HL11	Railway Accident
H60	Road or rail tanker containing dangerous goods and / or 'high consequence' dangerous goods - accident involving fire and explosion
HL13	Maritime accident or deliberate blockade resulting in blockage of access to key port, estuary, maritime route
HL14	Local (road) accident involving transport of fuel/explosives
<b>NATURAL HAZARDS</b>	
<b>Risk Ref</b>	<b>Hazard</b>
H17	Storms and Gales
H18	Low Temperatures and Heavy Snow
H48	Heat Wave
H50	Drought
H19	Coastal Flooding
HL16	Local coastal / tidal flooding (affecting more than one Region)
HL17	Local coastal / tidal flooding (in one Region)
H21	Fluvial Flooding
HL18	Local / Urban flooding (fluvial or surface run-off)
HL19	Local fluvial flooding
HL33	Forest or moorland fire
H54	Disruption to aviation as a consequence of volcanic ash
H55	Severe effusive (gas rich) volcanic eruption overseas
H56	Severe space weather

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<b>STRUCTURAL</b>	
<b>Risk Ref</b>	<b>Hazard</b>
HL21	Land movement (i.e. caused by tremors or landslides)
HL22	Building Collapse
HL23	Bridge Closure or Collapse
H44	Reservoir Dam Collapse
<b>HUMAN HEALTH</b>	
<b>Risk Ref</b>	<b>Hazard</b>
H23	Influenza type disease (pandemic)
H24	Emerging infectious diseases
HL24	Localised legionella / meningitis outbreak
H62	Health impacts of poor air quality either from high ground level ozone or fine particulate matter
<b>ANIMAL &amp; PLANT HEALTH</b>	
<b>Risk Ref</b>	<b>Hazard</b>
H25	Outbreak of Exotic Notifiable Disease in Animals including birds
HL43	Outbreak of plant disease (Chalara Dieback of Ash)
<b>DISRUPTIVE INDUSTRIAL ACTION &amp; INDUSTRIAL ACTION</b>	
<b>Risk Ref</b>	<b>Hazard</b>
HL42	Loss of cover due to industrial action by workers providing a service critical to the preservation of life (such as emergency service workers).
H31	Actual or threatened significant disruption to the distribution of fuel by road, including as a result of industrial action by fuel tanker drivers.
H33	National strike action by prison officers
H35	Industrial action by key Rail workers



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<b>PUBLIC DISORDER</b>	
<b>Risk Ref</b>	<b>Hazard</b>
H57	Large scale public disorder in sites in a single city or in multiple cities occurring concurrently over several days
<b>INTERNATIONAL EVENTS</b>	
<b>Risk Ref</b>	<b>Hazard</b>
H37	Influx of British Nationals who are not normally resident in the UK
<b>LOCAL RISKS</b>	
<b>Risk Ref</b>	<b>Hazard</b>
L1	Localised Maritime Pollution - Toxic or hazardous materials washed ashore
L2	Unexploded Ordnance
L3	Fire in Occupied Place of Entertainment /Sports Stadium
L4	Major Fire in Mersey Tunnel
L5	Serious RTC in Mersey Tunnel
L6	Failure of infrastructure in Mersey Tunnel (including collapse and flooding)
L7	Release of Hazardous Materials in Mersey Tunnel
L8	Local Accident Involving An Aircraft Crash Offshore
L9	Transport Incident Involving Radiological or Nuclear Materials
L10	Damage to Motorway Infrastructure
L11	Major Outbreak of Food Poisoning
L12	Sport Stadium Disorder
L13	Public Events Disorder
L14	Prison Riots
L15	Secure Hospitals
L16	Fire / Explosion / Contamination at a waste management or recycling centre
L17	Temporary Risks - Festivals / Sporting / Leisure Events

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<b>MALICIOUS ATTACKS</b>	
Risk Ref	Hazard
M1	Attacks on crowded places
M2	Attacks on infrastructure
M3	Attacks on transport systems
M4	Unconventional attacks
M5	Cyber security
M6	Cyber security (infrastructure)

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Natural Hazards	HL16	Local coastal / tidal flooding (affecting more than one Region)	Sea surge, spring tides, gale force winds and/or heavy rainfall affecting more than one Region, some defences overtopped or failing at multiple locations. Flooding of 1000 to 10,000 properties for up to 14 days. Could cause fatalities and casualties and up to 200 missing persons. Up to 50,000 people (including tourists) in coastal villages and towns evacuated from flooded sites. People stranded over a large area. Up to 10,000 people needing assistance with sheltering for up to 12 months. Possible large scale evacuation required. Suddenness of failure of defences would not be possible to predict. Tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes: widespread disruption for 7-14 days, salt damage, road and bridge damage, debris and contaminated water supplies and pollutants from affected businesses. Rural impacts include: widespread livestock carcasses, waterborne disease. Sewage treatment works flooded. Numerous properties destroyed. Many more uninhabitable for 12 months.	Medium (3)	Significant (4)	<ul style="list-style-type: none"> <li>EA Flood Warning Direct service</li> <li>Met Office National Severe Weather Warning Service</li> <li>EA Inspection of flood defences</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Met Office Hazard Manager Service</li> <li>Warning &amp; Informing the Public</li> <li>Environment Agency Regional Programme of Flooding Exercises.</li> </ul>	Environment Agency (EA)
Very High							
Natural Hazards	H17	Storms and Gales	Storm force winds affecting most of a region for at least 6 hours. Most inland, lowland areas experience mean speeds in excess of 55mph with gusts in excess of 85mph. Could cause fatalities and casualties. Disruption to infrastructure including power, transport networks, homes and businesses.	Medium High (4)	Moderate (3)	<ul style="list-style-type: none"> <li>SP Energy Networks System Emergency Plan</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Met Office National Severe Weather Warning Service</li> <li>Met Office Hazard Manager Service</li> <li>Warning &amp; Informing the Public.</li> </ul>	Local Authorities (St Helens MBC)
Very High							
Natural Hazards	H19	Coastal Flooding	High tides and major sea surge, resulting from gale force winds and heavy rainfall. Many coastal regions and tidal reaches of rivers affected by overtopping or failure (breach) of coastal and/or estuary defences. On the West Coast up to 104,000 residential properties impacted.	Medium (3)	Significant (4)	<ul style="list-style-type: none"> <li>EA Flood Warning Direct service</li> <li>Met Office National Severe Weather Warning Service</li> <li>EA Inspection of flood defences</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Met Office Hazard Manager Service</li> <li>Warning &amp; Informing the Public</li> <li>Environment Agency Regional Programme of Flooding Exercises.</li> </ul>	Environment Agency (EA)
Very High							
Human Health	H23	Influenza type disease (pandemic)	Each pandemic is different and the nature of the virus and its impact cannot be known in advance. A pandemic is likely to occur in one or more waves, possibly weeks or months apart. Each wave may last between 12-15 weeks. Up to half the population could be affected. All ages may be affected, but until the virus emerges we cannot know which groups will be most at risk.	Medium High (4)	Catastrophic (5)	<ul style="list-style-type: none"> <li>MRF Multi - agency plans</li> <li>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 such as asthmatics, diabetics and healthcare workers. Antiviral treatments as per national guidance.</li> <li>National Emergency plans, international, national and local surveillance systems. National stockpile of antiviral drugs (Tamiflu),</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)
Very High							
Major Industrial Accident	H41	Total failure of electricity network as a result of severe weather conditions and technical failure	Impact on Health Services, Police, Transport, Water and Telecommunications etc. Backup generators available for limited time for businesses and emergency services in some instances.	Medium (3)	Significant (4)	<ul style="list-style-type: none"> <li>SP Energy Networks System Emergency Plan</li> <li>MRF Multi - agency plans</li> <li>National Emergency plans</li> <li>Local &amp; Regional Exercises (Blackstart)</li> <li>Warning &amp; Informing the Public</li> </ul>	SP Energy Networks
Very High							
Natural Hazard	H18	Low Temperatures and Heavy Snow	Snow falling and lying over most of the area for at least one week. After an initial fall of snow there is further snow fall on and off for at least 7 days. Most lowland areas experience some falls in excess of 10cm, a depth of snow in excess of 30cm and a period of at least 7 consecutive days with daily mean temperature below -3°C. Could cause fatalities and casualties, mainly due to slips trips and falls. There is likely to be some disruption to transport networks, businesses, power supply and water supply, and also school closures.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Local Authorities Winter Weather Plans, including priority routes for gritting</li> <li>Local Authority highway monitoring systems</li> <li>Local Authority contracts in place for gritting</li> <li>Highways England Winter Service Plan, Highways England Area 10 Severe Weather Plan, VMS Traffic Officer Service at Regional Control Centre &amp; Service Provider, Emergency Network Diversion Routes</li> <li>Warning &amp; Informing the Public</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>Met Office – Severe weather warning, specific Highway forecasts.</li> </ul>	Local Authorities (Liverpool CC)
High							

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Natural Hazard	H21	Fluvial Flooding	River flood event following a sustained period of heavy rainfall extending over two weeks (perhaps combined with snow melt and surface water flooding). The event would include major fluvial flooding affecting large urban areas. Closure of primary transport routes. Infrastructure failure. Loss of essential services (gas, electricity & telecoms) to 250,000 homes. Disruption to water supplies. Could cause fatalities and casualties. People needing assistance with evacuation, rescue or assistance in-situ.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Flood and Water Management Act 2010</li> <li>Land Drainage Act 1991</li> <li>Water Resources Act 1991</li> <li>EA Flood Warning Direct service</li> <li>Met Office National Severe Weather Warning Service</li> <li>EA Inspection of flood defences</li> <li>Warning &amp; Informing the Public</li> <li>Environment Agency Local Flood Warning Plan for Merseyside.</li> <li>Environment Agency Regional Programme of Flooding Incident Exercises</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Environment Agency (EA)
				High			
Natural Hazard	H56	Severe space weather	Coastal electrical sub-stations serving approximately 100,000 customers each are severely damaged and unable to supply electricity for two or more months. Consumers in these areas would experience an initial loss of supply, for up to half this period (i.e. for one month or more), until the local Distribution Network Operators and National Grid could arrange for alternative supplies such as interconnection to other substations, or deployment of mobile electricity generation. It is likely that rota-disconnections would be used in the affected areas for the rest of the period until the substation repairs were completed. Disruptions to satellite services for several days, including interruptions and degradations of GPS. This could result in casualties and fatalities.	Medium High (4)	Moderate (3)	<ul style="list-style-type: none"> <li>Forecasting through Met Office Space Weather Operations Centre</li> <li>National Grid constantly monitors space weather conditions. National Grid modern transformers are designed to withstand geomagnetic currents. National Grid Contingency plans for space weather.</li> <li>Electricity Supply Emergency Code</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	SP Energy Networks
				High			
Natural Hazard	HL17	Local coastal / tidal flooding (in one Region)	Sea surge, high tides and/or gale force winds affecting the coastline and one Region, a defence system overtopped or failing at a single location. Localised impact with infrastructure affected and up to 1000 properties flooded for up to 14 days. Could cause fatalities and casualties and up to 100 missing persons. Up to 20,000 people (including tourists) in coastal villages and towns evacuated from flooded sites. People stranded over a large area and up to 2,000 people in need of rescue. Up to 3,000 people needing assistance with sheltering for up to 12 months. Some local evacuation and cordoning off of affected areas. Tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes: localised disruption for up to 7 days, salt damage, road damage, debris and contaminated local water supplies and pollutants from affected businesses. Rural impacts include: livestock carcasses, waterborne disease. Some properties destroyed and others uninhabitable for 12 months.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Flood and Water Management Act 2010</li> <li>Land Drainage Act 1991</li> <li>Water Resources Act 1991</li> <li>EA Flood Warning Direct service</li> <li>Met Office National Severe Weather Warning Service</li> <li>EA Inspection of flood defences</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> <li>Environment Agency Local Flood Warning Plan for Merseyside.</li> <li>Environment Agency Regional Programme of Flooding Incident Exercises.</li> </ul>	Environment Agency (EA)
				High			
Natural Hazard	HL18	Local / Urban flooding (fluvial or surface run-off)	A sustained period of heavy rainfall extending over two weeks, perhaps combined with snow melt, resulting in flash flooding and steadily rising river levels across entire counties and could threaten a large urban town. Localised flooding of 1000 to 10,000 properties for 2-7 days. Could cause fatalities and casualties. Up to 15,000 people evacuated. Up to 500 people stranded over a large area and in need of rescue. There would be major impact on road and rail links. Impact on infrastructure includes: some buildings collapse, water damage, road and bridge damage. Contamination of water supplies. Loss of essential services (gas, electricity & telecoms) to 20,000 homes for up to 14 days. Widespread disruption for 7-14 days, significant debris and pollutants from affected businesses. Up to 1,000 people needing assistance with sheltering for up to 12 months. Rural impacts include: widespread livestock carcasses, waterborne disease. Sewage treatment works flooded. Properties destroyed and many more uninhabitable. People needing assistance with sheltering for up to 12mths.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Environment Agency Local Flood Warning Plan for Merseyside.</li> <li>Environment Agency Regional Programme of Flooding Incident Exercises</li> <li>EA Flood Warning Direct service</li> <li>Met Office National Severe Weather Warning Service</li> <li>EA Inspection of flood defences</li> <li>MRF Multi - agency plans</li> <li>Individual responder plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Environment Agency
				High			

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Natural Hazard	HL19	Local fluvial flooding	A sustained period of heavy rainfall extending over two weeks, perhaps combined with snow melt, resulting in flash flooding and steadily rising river levels within a region. Localised flooding of 100 to 1,000 properties for 2-7 days. Could cause fatalities and casualties. Up to 5,000 people evacuated. Up to 200 people stranded over a large area and in need of rescue. There would be some impact on minor roads and some A roads and truck roads impassable for a time. Some main rail lines may need to be closed for a week (for repairs etc.). Most water ways would be closed to traffic because of strong currents and high water levels. Impact on infrastructure includes, water damage, road and bridge damage. Sediment movement and contamination of local water supplies. Localised loss of essential services (gas, electricity & telecoms) to 5,000 for up to 14 days. People needing assistance with sheltering for up to 12 months. Substantial disruption within a county for 7-14 days. Significant debris and pollutants clear-up needed.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Environment Agency Local Flood Warning Plan for Merseyside. Environment Agency Regional Programme of Flooding Incident Exercises</li> <li>EA Flood Warning Direct service</li> <li>Met Office National Severe Weather Warning Service</li> <li>EA Inspection of flood defences</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Environment Agency
				High			
Human Health	H24	Emerging infectious diseases	The worst case likely impact of such an outbreak originating outside the UK would be cases occurring amongst returning travellers and their families and close contacts, with spread to health care workers within hospital setting. Short term disruption to local hospital intensive care facilities Possible delays to non-urgent procedures. Public concern about travel, within and beyond the UK and possible international travel restriction advice.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>MRF Pandemic Influenza Plan</li> <li>PHE Cheshire and Merseyside Outbreak of Infectious Diseases Plan</li> <li>Associated MRF Multi - agency plans</li> <li>Individual responder plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> <li>International, national and local surveillance systems, Infection Control Plans,</li> <li>Business Continuity Plans.</li> </ul>	Public Health England (PHE)
				High			
Human Health	H62	Health impacts of poor air quality either from high ground level ozone or fine particulate matter	Prolonged episode of up to 20 days mainly affecting the elderly and people with existing illnesses. Could cause fatalities and increased hospital admissions.	Medium High (4)	Moderate (3)	<ul style="list-style-type: none"> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> <li>Protocol for Obtaining Health Advice by Emergency Responders.</li> </ul>	Public Health England (PHE)
				High			
Major Industrial Accident	H9	Large toxic chemical release	Up to 3km from site, could cause fatalities and casualties. This risk could result in environmental contamination. There could be impacts on air, land water, animal welfare, agriculture and waste management. Could impact on demands on healthcare services. Contamination of land and certain foodstuffs.	Medium Low (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Control of Major Accident Hazards Regulations 2015 (COMAH)</li> <li>MFRS Individual Site Specific Plans, MFRS SOPs Major Incident, Mass Decontamination, Hazardous Materials, COMAH, MFRS COMAH Off-Site Emergency Plans &amp; Exercise schedule, MFRS contract with Bureau Veritas</li> <li>Protocol for Obtaining Health Advice by Emergency Responders</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				High			
Major Industrial Accident	H45	Disruption to Regional Electricity Distribution or Transmission Network / System	Total failure of the electricity network over an entire region of GB occurring during the working week and lasting for 24 hours.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Distribution Network Operators System Emergency Plan, Emergency Communication Plan, System Faults &amp; Emergency Plan, Electricity Supply Emergency Code.</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	SP Energy Networks
				High			
Major Transport Accident	H16	Aviation accident over a semi-urban area	Loss of a number of aircraft causing fatalities and casualties including people in the area of the incident, with debris over a semi-urban area.	Low (1)	Catastrophic (5)	<ul style="list-style-type: none"> <li>Liverpool John Lennon Airport Emergency Procedures, Airport Emergency Liaison Committee, Airport Testing/Exercising regime in place</li> <li>CAA, MOD and NATO flying regulations, MOD Post Crash Management Organisation</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Liverpool John Lennon Airport (Fire)
				High			

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Transport Accident	HL11	Railway accident	Could cause fatalities and casualties. Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>BTP Emergency Response Plans</li> <li>Merseyrail Electrics Emergency Response Guide</li> <li>Network Rail Emergency Plans</li> <li>All TOC/FOCs/Network Rail are required to have a Safety Certificate agreed with the Office of Rail Regulation (ORR) before a licence to operate is granted. The Safety Certificate is renewed every 5 years ensuring that all TOC/FOCs and Network Rail have analysed and assessed the risks of their operation, determining how those risks will be controlled and where necessary improvements put into place. Each organisation has a Safety Management System to ensure that the controls are effectively and consistently applied</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	British Transport Police
				High			
Malicious Attacks	M1	Attacks on crowded places	Crowded places remain an attractive target for a terrorist attack. Crowded places by their nature are easily assessable and offer the prospect for an impact beyond the loss of life alone. Attacks are often (but not always) carried out without prior warning.	Medium High (4)	Moderate (3)	<ul style="list-style-type: none"> <li>Raising awareness – work of the counter terrorism security advisors</li> <li>Personal Safety Advice Circulated – ‘Run, Hide, Tell’</li> <li>Emergency Services Specialist Resources</li> <li>Physical security measures where appropriate</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				High			
Malicious Attacks	M2	Attacks on infrastructure	Many of the impacts which could result from industrial accidents, technical failure or severe weather could also result from a terrorist attack on infrastructure. The risk and impact vary according to the criticality of the infrastructure assets affected.	Medium (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Business continuity plans for loss of essential services helps to minimize disruption</li> <li>Raising awareness – work of the counter terrorism security advisors</li> <li>Programme of work to protect infrastructure</li> <li>Advice available from Centre for the Protection of National Infrastructure</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				High			
Malicious Attacks	M3	Attacks on transport systems	Conventional attacks on transport system are judged to be the more likely. This is supported by recent evidence from around the world. Attacks on transport can take different forms and result in different levels of impact. Stringent security measures are in place at airports. Most rail and underground systems are more open and therefore attractive potential targets. To date no attack against maritime interests in the UK has been mounted by terrorists.	High (5)	Moderate (3)	<ul style="list-style-type: none"> <li>Raising awareness – work of the counter terrorism security advisors</li> <li>Regulation and security processes of individual public transport sectors</li> <li>Contingency plans developed by operators in conjunction with responders</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				High			
Malicious Attacks	M4	Unconventional Attacks	Mass impact terrorist attacks, whilst unlikely, cannot be ruled out. The likelihood of terrorists successfully undertaking an attack against a nuclear or chemical facility or obtaining chemical, biological, radiological (CBR) or nuclear materials remains low, but not negligible. If such attacks were successful, the potential impact on the UK would be severe and significantly greater than a conventional attack. The potential impacts of an incident involving CBR agents will depend on a range of factors including type and quantity of CBRN materials used. This could range from small-scale (assassination or poisoning) to mass-impact (widespread dispersion and contamination) which is reflected in the scores.	Moderate (3)	Moderate (3)	<ul style="list-style-type: none"> <li>Well-developed specialist response capability</li> <li>Access to medical-countermeasures</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans &amp; resources</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				High			
Natural Hazard	H48	Heat wave	Daily maximum temperatures in excess of 28°C and minimum temperatures in excess of 15°C over most of the region for around 2 weeks at least 5 consecutive days where maximum temperatures exceed 32 °C. Could cause fatalities and casualties, mainly amongst the elderly. There could be disruption to power supply and transport infrastructure.	Medium High (4)	Minor (2)	<ul style="list-style-type: none"> <li>Health &amp; Safety at work Act 1974</li> <li>NHS England &amp; PHE Heat Wave Plan for England</li> <li>Meteorological Warning Systems &amp; Public Information Systems</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)
				Medium			
Natural Hazard	H50	Drought	Periodic water supply interruptions affecting businesses in London. Emergency Drought Orders in place which may impact supply in other areas of the country.	Medium (3)	Minor (2)	<ul style="list-style-type: none"> <li>Water Resources Act 191</li> <li>Environment Agency Area Drought Contingency Plan, EA regular monitoring of reservoirs and rivers, EA orders &amp; permits to control water abstraction, EA computer modelling to predict pressure points, EA and UU Liaison</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Environment Agency (EA)
				Medium			

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Natural Hazard	H54	Disruption to aviation as a consequence of volcanic ash.	Volcanic ash incursions for up to 25 days resulting in sporadic and temporary closures of significant parts of UK airspace for up to a total of 15 days during a three month eruption period. The entire UK mainland and potentially other parts of Europe could be affected for up to 10 of these days. A single period of closure within the 3 month eruptive episode may last up to 12 consecutive days, depending on meteorological conditions.	Medium High (4)	Minor (2)	<ul style="list-style-type: none"> <li>Decisions taken by Civil Aviation Authority</li> <li>CAA Guidance Regarding Flight Operations in the vicinity of Volcanic Activity</li> <li>Airport Procedures</li> <li>Meteorological Office provides guidance on weather patterns and predictions regarding the ash cloud.</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Liverpool John Lennon Airport (Fire)
Natural Hazard	H55	Severe effusive (gas rich) volcanic eruption overseas	A severe volcanic eruption, generating large amounts of gas, aerosol and ash over a 5 month period affecting the UK and Northern Europe. The eruption could generate significant amounts of sulphur dioxide, hydrogen fluoride, sulphate aerosol (sulphuric acid) and lesser amounts of other acid aerosols, as well as very fine ash particles. Gases and aerosols in the atmosphere will be brought down to the surface throughout the UK and Northern Europe via dry deposition (termed dry fog) and wet deposition (e.g. acid rain). This could result in ground level sulphur dioxide peak 24 hour mean concentrations of up to 0.2ppm (parts per million) being sustained for several days in the UK, but hourly means could be as high as 2ppm. Published modelling work suggests that the concentration of particulate matter with diameters smaller than 2.5 microns could double in the UK for the first 3 months of the eruption, exceeding WHO guidelines for 36 days on average. These concentrations of sulphur dioxide will cause asthma attacks and worsening of the clinical condition of patients with other chronic respiratory disease. Could have an impact on health services.	Medium High (3)	Minor (2)	<ul style="list-style-type: none"> <li>Decisions taken by Civil Aviation Authority</li> <li>CAA Guidance Regarding Flight Operations in the vicinity of Volcanic Activity</li> <li>Airport Procedures</li> <li>Meteorological Office provides guidance on weather patterns and predictions regarding the ash cloud.</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Liverpool John Lennon Airport (Fire)
Natural Hazard	HL33	Forest or moorland fire	Forest or moorland fire across up to 50 hectares. Evacuation of residential homes required.  Transport may be disrupted due to smoke. Could cause fatalities and casualties.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS SOP Major Incident, MFRS SOP Rural Fires, MFRS High Volume Pump, Off Road Vehicles equipped with fogging units and Site Specific Operational Plans.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
Human Health	HL24	Localised legionella / meningitis outbreak	Localised outbreak of a disease which could cause approximately 500 identified cases leading to fatalities.	Medium High (4)	Minor (2)	<ul style="list-style-type: none"> <li>MRF Pandemic Influenza Plan</li> <li>PHE Major Outbreak Plan</li> <li>International National and Local surveillance Systems</li> <li>Regional Animal Diseases Group, Water filtration, animal controls, regulations on farm visits, environmental health regulations and control measures.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)
Major Industrial Accident	H4	Fire or explosion at a fuel distribution site or a site storing flammable and/or toxic liquids in atmospheric pressure storage tanks	Up to 3km around site, could cause fatalities and casualties. Might be disruption to air transport in the short-term. Could have impact on health services. Closure of roads in locality for a short period of time.	Medium Low (2)	Medium (3)	<ul style="list-style-type: none"> <li>MFRS SOPs COMAH, Major Incident, Mass Decontamination, Hazardous Materials</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Protocol for Obtaining Health Advice by Emergency Responders.</li> <li>Local Authority Major Emergency Plans</li> <li>MRF Exercise Calendar</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
Major Industrial Accident	H6	Fire or explosion on an offshore oil / gas installation	Fire and explosion, the incident would be local to site. Could cause fatalities and casualties. May impact supply. May cause environmental damage.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>MCA Standard Operating Procedures</li> <li>EPOL Plan</li> <li>ENI Liverpool Bay Asset Incident Management Plan</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Maritime & Coastguard Agency (MCA)
Major Industrial Accident	H11	Accidental exposure to radioactive material from incorrectly handled stolen sources	Could cause fatalities and casualties. Many worried people may present at hospitals. Radiation may be spread over several kilometres, but concentrated at the site of the incident. Could result in environmental contamination. There could be impacts on air, land, water, animal welfare, agriculture and waste management. Decontamination may be necessary.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>PHE Incident Response Plan</li> <li>PHE CRCE Recovery Handbooks for Radiation Incidents</li> <li>PHE Radiation Monitoring Unit Plan</li> <li>Associated MRF Multi - agency plans</li> <li>Government Decontamination Service</li> <li>RADSAFE Scheme</li> <li>NAIR Scheme</li> <li>Individual responder plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Major Industrial Accident	H12	Biological substance release from facility where pathogens are handled deliberately (e.g. pathogen release from containment laboratory)	Could cause fatalities and casualties with serious injuries.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>NHS Incident Response Plan</li> <li>NHS Trusts Major Incident Plans</li> <li>NHS Acute Trust Hazmat Self Presenter Decontamination MOU Between MFRS and Acute Trusts and MFRS SOPs and individual site specific plans</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)
Major Industrial Accident	H14	Major contamination incident with widespread implications for the food chain arising from: an industrial accident affecting food production areas contamination of animal feed incidents arising from production processes	There may be direct animal and consumer health effects. Could cause fatalities and casualties. There may be food production/marketing implications, depending on the scale and area affected (e.g. major shellfisheries, dairy, livestock production areas). Consumer confidence may also be affected, leading to lost markets and, where staple products (e.g. bread or milk) are affected, potential panic buying.	High (5)	Minor (2)	<ul style="list-style-type: none"> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> <li>Regulation system for checking food chain. Food Standards Agency and Environment Agency Public.</li> </ul>	Public Health England (PHE)
Major Industrial Accident	H15	Maritime Pollution	Spillage of crude oil into the sea polluting the coastline.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>National Contingency Plan for Marine Pollution from Ships and Offshore Installations</li> <li>International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters. International Ship and Port Security Code; security service involvement</li> <li>NW Standing Environment Group</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Maritime & Coastguard Agency (MCA)
Major Industrial Accident	H38	Technical failure of an upstream oil/gas facility, gas import pipeline terminal, or Liquefied Natural Gas (LNG) import reception facility leading to a disruption in gas supplies	Catastrophic accident destroying all parts of a facility and, in the worst case, taking months or more to restore normal levels of service. This could potentially result in a loss of gas supply to UK which could impact on power generation if demand were high. Could impact on economic, health and environmental.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS Individual Site Specific Plans, MFRS SOPs Major Incident, Mass Decontamination, COMAH, MFRS COMAH External Emergency Plans &amp; Exercise Schedule</li> <li>MRF Multi - agency plans</li> <li>Individual responder plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
Major Industrial Accident	H39	Failure of water infrastructure or loss of drinking water	Loss of or non-availability for drinking, of the piped water supply, for a population of up to 350,000 for more than 24 hours and up to two weeks due to an accident. Impact on domestic, industrial, commercial and agriculture premises.	Medium Low (2)	Moderate (3)	<ul style="list-style-type: none"> <li>United Utilities Asset Management Plan, Security &amp; Emergency Measures Direction 1998, Incident Management Procedure, Demand Monitoring Zone Plan(s), Alternative Water Supplies Procedure, Boil Water Advice Procedure, Chemical Contamination Procedure, Alternative water supply review documents for some hospitals and prisons. United Utilities in-house emergency plant including 15 Water Tankers, 400+ Arlington combo units and bottled water stocks for provision of alternative water supplies.</li> <li>Water Industry mutual aid and support for provision of alternative water supplies</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	United Utilities



Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Major Industrial Accident	H61	Industrial accident during remedial work on a legacy pond or silo facility at a civil nuclear installation holding large quantities of fissile material and radioactive waste	Potentially large numbers of people advised to evacuate and / or shelter. Could cause fatalities and casualties.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>PHE Incident Response Plan</li> <li>PHE CRCE Recovery Handbooks for Radiation Incidents</li> <li>PHE Radiation Monitoring Unit Plan</li> <li>MFRS SOPs Major Incident, Hazardous Materials, CBRNE Incidents, Mass Decontamination, MFRS Individual site-specific plans and Mass Decontamination MOU Between MFRS and Acute Trusts.</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>Government Decontamination Service</li> <li>RADSAFE Scheme</li> <li>NAIR Scheme</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)
				Medium			
Industrial Accident	H1	Fire or explosion at a gas LPG (Liquefied Petroleum Gas) flammable gas storage site	Up to 3km around site, could cause fatalities and casualties. Could last for days. Gas shortage not expected but some disconnections of intensive users. Could cause disruption to transport services (road and rail) and health services.	Medium Low (2)	Moderate (3)	<ul style="list-style-type: none"> <li>MFRS SOPs Major Incident, LPG, MFRS Individual Site Specific Plans</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> <li>Protocol for Obtaining Health Advice by Emergency Responders.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Medium			
Industrial Accident	HL4	Major pollution of surface waters and groundwater	Pollution incident leading to effect on water quality. Could impact on tourism and have a serious impact on human health.	High (5)	Minor (2)	<ul style="list-style-type: none"> <li>Environment Agency 24 Hour 365 Day Response System in place. Environment Agency Incident Management Process in Place. Environment Agency Local Working Arrangements with Fire Services, Police, Local Authorities, Highways England, Public Health England and Health Authority</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Environment Agency (EA)
				Medium			
Industrial Accident	HL27	Localised fire or explosion at an oil refinery	Up to 1km around site, could cause fatalities and casualties.	Medium Low (2)	Moderate (3)	<ul style="list-style-type: none"> <li>MFRS Individual Site Specific Plans, MFRS SOPs Major Incident, Building fires, Hazardous Materials</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Medium			
Industrial Accident	HL7	Industrial explosions and major fires	Up to 1km around site, could cause casualties. Explosions would cause primarily crush / cuts and bruise-type injuries, as well as burns.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>Control of Major Accident Hazards Regulations 2005 (COMAH)</li> <li>MFRS Individual Site Specific Plans, MFRS SOPs Major Incident, Mass Decontamination, COMAH, MFRS COMAH Off-Site Emergency Plans &amp; Exercise Schedule</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Medium			
Major Transport Accident	H60	Road or rail tanker containing dangerous goods and / or 'high consequence' dangerous goods - accident involving fire and explosion	Could cause fatalities and casualties. Could cause damage to property and infrastructure depending on their distance from the incident. Impacts to health and environment. Contamination could impact air, land, water, animal welfare, agriculture and waste management.	Medium Low (2)	Moderate (3)	<ul style="list-style-type: none"> <li>MFRS SOPs Major Incident, Mass Decontamination, Hazardous Materials, Road, Rail. MFRS DIM Vehicle</li> <li>Individual responder plans</li> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> <li>Environment Agency Hazard Manager</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Medium			
Transport Accident	HL9	Aviation accident	Could cause fatalities and casualties.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Liverpool John Lennon Airport Emergency Procedures, Airport Emergency Liaison Committee, Airport Testing/Exercising regime in place.</li> <li>MFRS SOP Major Incident, MFRS SOP Air, MFRS SOP</li> <li>CAA, MOD and NATO flying regulations, MOD Post Crash Management Organisation</li> <li>Water, MFRS Marine Rescue Team.</li> <li>Warning &amp; Informing the Public</li> </ul>	Liverpool John Lennon Airport (Fire)
				Medium			

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Transport Accident	HL34	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters leading to the ship's evacuation or partial evacuation at sea	Could cause fatalities and casualties.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>MRF Maritime Response Guidance</li> <li>International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters. International Ship and Port Security Code; security service involvement</li> <li>NW Standing Environment Group</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> </ul>	Maritime & Coastguard Agency (MCA)
Structural	H44	Reservoir Dam Collapse	Collapse without warning resulting in almost instantaneous flooding. Significant movement of debris (including vehicles) and sediment. Complete destruction of some residential and commercial properties and serious damage to properties. Several thousand other properties could be flooded. Could cause fatalities and casualties. Missing persons and people stranded. Hazardous recovery amongst collapsed infrastructure and debris. Water supply to homes and business is lost. People need temporary accommodation.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>Reservoirs Act 1975</li> <li>Water Act 2003</li> <li>Regular Statutory visits by EA</li> <li>Met Office National Severe Weather Warning Service</li> <li>Environment Agency Local Flood Warning Plan for Merseyside</li> <li>Environment Agency Regional Programme of Flooding Exercises</li> <li>Reservoir Undertakers - Specific On-Site Plans</li> <li>Associated MRF Multi - agency plans</li> <li>Warning &amp; Informing the Public</li> </ul>	Environment Agency (EA)
Structural	HL22	Building collapse	Potential for a number of persons to be trapped or missing. Localised loss of power and other essential services. Local access routes affected due to road closures. Depending on the size and construction of building, and occupation rates, there will always remain the possibility of fatalities or serious casualties.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS SOPs Major Incident, Collapsed Structures, MFRS Search &amp; Rescue Team</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
Animal Health	H25	Outbreak of exotic notifiable disease in animals including birds	Major outbreak of non-zoonotic or zoonotic disease. Zoonotic can be transmitted to the human population e.g. avian influenza. Non zoonotic is only transmissible between animals / birds.	Medium (3)	Minor (2)	<ul style="list-style-type: none"> <li>Animal Health Act 1981 &amp; 2002</li> <li>Local Authority Notifiable Exotic Animal Disease Contingency Plan</li> <li>Local Authority (Environmental Health) holds plans for: <ul style="list-style-type: none"> <li>Footpath closure</li> <li>Decontamination</li> </ul> </li> <li>Liaison with lead Government Departments</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Local Authorities (Lead - Knowsley MBC)
Disruptive Industrial Action	H31	Actual or threatened significant disruption to the distribution of fuel by road, including as a result of industrial action by fuel tank drivers	Retail filling stations, depending on the extent of the disruption and their locations, would start to run out of fuel within 4-5 days. Oil depots, for example those supplying emergency services and critical supply chains, would also face reduced deliveries, and it is likely that they would progressively begin to run short of fuel. Panic buying could exacerbate the situation. Replenishment of sites afterwards could take up to 2 weeks, largely depending on the extent of disruption. The extent of disruption would depend on the extent to which normal deliveries of fuel to customers could be maintained.	Medium (3)	Minor (2)	<ul style="list-style-type: none"> <li>MRF Fuel Supply Disruption Plan</li> <li>Associated MRF Multi - agency plans</li> <li>Individual responder plans, including business continuity</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
Industrial Action	HL42	Loss of cover due to industrial action by workers providing a service critical to the preservation of life (such as emergency service workers).	A number of three day strikes with significant support over a two month period affecting a single emergency service.	Medium High (4)	Minor (2)	<ul style="list-style-type: none"> <li>NWAS REAP Plan, NWAS Business Continuity Plans, MOU between NWAS and VAS, Mutual Aid, availability of differing response models</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	North West Ambulance Service
International Events	H37	Influx of British Nationals who are not normally resident in the UK.	British Nationals (BNs) not normally resident in the UK, returning to UK within a 3-4 week period following conventional war, widespread civil unrest or sustained terrorism campaign.	Medium (3)	Minor (2)	<ul style="list-style-type: none"> <li>MRF Humanitarian Assistance CONOPS</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Local Authorities (Lead – Liverpool CC)
Public Disorder	H57	Large scale public disorder in sites in a single city or in multiple cities occurring concurrently over several days	Large scale outbreaks of disorder in a single city or multiple cities occurring concurrently, over a number of days. Disorder assumes criminal nature in urban centre (looting, rioting and wide scale criminal damage to public and private property) with satellite disorder in suburbs potentially triggered by existing community tensions.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>Police Aide Memoir on Civil Unrest</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Local Risks	L1	Localised Maritime Pollution - Toxic or hazardous materials washed ashore	Release of oil into the sea, polluting the coastline. Significant environmental impact and potential for harm to human health.	Medium Low (2)	Moderate (3)	<ul style="list-style-type: none"> <li>Memorandum of Understanding between the Environment Agency, Local Authority and Maritime and Coastguard</li> <li>Agency to react and remediate in case of toxic or hazardous material washed ashore.</li> <li>Environment Agency staff trained on Base Controllers (Silver) and Liaison Officers.</li> <li>Shoreline Pollution Response Contractors - Braemar Howells and Adler &amp; Allan. Trained Beachmasters and Beach Supervisors.</li> <li>Site specific oil pollution plans</li> <li>International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators.</li> <li>Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters, International Ship and Port Security Code – security service involvement.</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Local Authorities (Sefton MBC & Wirral MBC)
				Medium			
Local Risks	L4	Transport hazards Major fire in Mersey Tunnel	Could cause fatalities and casualties and people trapped or missing. Evacuation of motorists. Loss of major cross river transport link. Disruption to transport network and local economy. Possible loss of communications and utilities. Major costs of rebuilding.	Medium Low (2)	Moderate (3)	<ul style="list-style-type: none"> <li>Mersey Tunnels plans for Emergency Closures, Evacuation and Serious Fire</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Mersey Tunnels Police
				Medium			
Local Risks	L5	Transport hazards Serious RTC in Mersey Tunnel	Could cause fatalities and casualties and people trapped. Evacuation of motorists. Loss of major cross-river transport link. Disruption to transport network.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>Mersey Tunnels plans for Emergency Closure, Evacuation and Serious RTC</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Mersey Tunnels Police
				Medium			
Local Risks	L8	Transport Hazards Local accident involving an aircraft crash off shore	Medium – Large aircraft causing fatalities/casualties with environmental impact.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>ARCC Plans</li> <li>MFRS SOP Major Incident, MFRS SOP Air, MFRS SOP Water.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	To be confirmed
				Medium			
Local Risks	L10	Transport hazards Damage to motorway infrastructure	Motorway infrastructure will be damaged resulting in fatalities, injury and damage to transportation links.	Low (1)	Moderate (3)	<ul style="list-style-type: none"> <li>Highways England – Contingency Plans, Traffic Officer Service at Regional Control Centre &amp; Service provider Units, Emergency Network Diversion Route</li> <li>MRF Emergency Humanitarian Assistance &amp; Welfare on the Highway</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Highways England
				Medium			
Local Risks	L11	Human Health Major outbreak of food poisoning	Water-born - Cryptosporidiosis Outbreak affecting 100 people and could cause fatalities.  Food-borne - Salmonella Outbreak affecting 100 people and could cause fatalities	Medium (3)	Minor (2)	<ul style="list-style-type: none"> <li>Water filtration, animal controls, regulations on farm visits</li> <li>Environmental Health Regulations</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Local Health Resilience Partnership (NHS)
				Medium			
Local Risks	L12	Public disorder Sport stadium disorder	Public events disorder resulting in injuries.	Medium Low (2)	Minor (2)	<ul style="list-style-type: none"> <li>Local Authority Licence Conditions.</li> <li>Clubs have individual Emergency Manuals</li> <li>Police Plans are developed based on information/intelligence prior to each scheduled fixture</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				Medium			
Malicious Attacks	M6	Cyber security (infrastructure)	Increasing reliance on cyber space brings new opportunities and new threats. The very openness of the networks presents a vulnerability of compromise or damage to networks from the action of hackers, criminals or foreign intelligence services.  The two assessments cover risks of cyber-attack against infrastructure and cyber-attacks relating to data confidentiality. Impacts of both types of cyber-attack could include economic and societal disruption.	High (5)	Minor (2)	<ul style="list-style-type: none"> <li>National Cyber Security Programme</li> <li>National Cyber Crime Unit</li> <li>Advice available from Centre for the Protection of National Infrastructure</li> <li>Individual responder plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				Medium			
Malicious Attacks	M5	Cyber security (Data Confidentiality)	Whilst terrorists can be expected to continue to favour high-profile physical attacks, the possibility that they might use cyber space to facilitate or mount an attack is growing.	High (5)	Limited (1)		
				Low			

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Major Industrial Accident	H5	Fire or explosion at an onshore fuel pipeline	Up to 1km around site, could cause fatalities and casualties.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS Merseyside Major Accident Hazard Pipeline Plan, MFRS SOP Major Incident, MFRS SOP Pipeline</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Low			
Major Industrial Accident	H7	Explosion at a high pressure gas pipeline	Local to site, could cause fatalities and casualties.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS SOP Major Incident, MFRS SOP Pipelines, MFRS Merseyside Major Accident Hazard Pipeline Plan</li> <li>National Grid Gas Emergency Response Procedures for Dealing with Gas Escape</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Low			
Major Industrial Accident	H40	Disruption or loss of telecommunication systems	Loss of telecommunications for up to 100,000 people for up to 72 hours.	Medium Low (2)	Limited (1)	<ul style="list-style-type: none"> <li>Police Plan - Loss of British Telecom Exchange</li> <li>MRF Resilient Telecommunications Capabilities &amp; Guidance</li> <li>Regional PECS agreement to ensure 999 calls will be answered</li> <li>National Emergency Alert for Telecoms</li> <li>BT Restoration Plans</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				Low			
Major Industrial Accident	H46	Biological substance release during an unrelated work activity or industrial process (e.g. Legionella release due to improperly maintained building environmental control systems)	Could cause fatalities and casualties with serious injuries.	High (5)	Low (1)	<ul style="list-style-type: none"> <li>NHS Incident Response Plan</li> <li>NHS Trusts Major Incident Plans</li> <li>NHS Acute Trust Hazmat Self Presenter Decontamination MOU Between MFRS and Acute Trusts and MFRS SOPs and individual site specific plans</li> <li>Individual responder plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Public Health England (PHE)
				Low			
Industrial Accident	HL26	Localised fire or explosion at an onshore ethylene gas pipeline	Up to 1km around site, could causing fatalities and casualties.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS Merseyside Major Accident Hazard Pipeline Plan, MFRS SOP Major Incident, MFRS SOP Pipeline</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Low			
Transport Accident	HL8	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters or on inland waterways, leading to the ship's evacuation.	Could cause fatalities and casualties.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MCA Major Incident Plans</li> <li>International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operator</li> <li>Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Maritime & Coastguard Agency (MCA)
				Low			
Transport Accident	HL10	Local accident on motorways and major trunk roads	Multiple vehicle incident causing fatalities and casualties. Closure of lanes or carriageways causing major disruption and delays.	Medium High (4)	Low (1)	<ul style="list-style-type: none"> <li>MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				Low			
Transport Accidents	HL13	Maritime accident or deliberate blockade resulting in blockage of access to key port, estuary, maritime route.	Loss of port is likely to have an initial wider impact, but will quickly reduce as shippers seek alternative ports or methods of shipping. Economic impact on local dependent businesses.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Port/Harbour Authority – Pilotage, marked channels, vessel tracking system, Port/Harbour Authority Maritime Salvage SOP</li> <li>Joint training/enforcement initiative between Police, MF&amp;RS, Trading Standards &amp; Environmental Health</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Port of Liverpool Police
				Low			
Transport Accidents	HL14	Local (road) accident involving transport of fuel / explosives	Multiple serious casualties with the possibility of multiple fatalities within vicinity of accident/explosion, depending on the average accident rate for the local road networks in that particular area. Area could require evacuating depending on substances involved. Potential release into local environment, watercourses etc. Large quantities of firefighting media (foam) could impact on environment. Roads and access routes impassable for a time.	Medium Low (2)	Limited (1)	<ul style="list-style-type: none"> <li>MFRS SOP Major Incident, MFRS SOP Mass Decontamination, MFRS SOP Hazardous Materials, MFRS SOP Road, MFRS SOP Environment, MFRS range of Fire Fighting Foam for Class A&amp;B Fires</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Low			

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Transport Accident	HL37	Release of significant quantities of hazardous chemicals/materials as a result of major shipping accident	Fatalities and casualties unlikely. Significant environmental / ecological damage.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MCA Major Incident Plans</li> <li>National Contingency Plan for Marine Pollution from Ships and Offshore Installations</li> <li>International Ship and Port Security Code- security service involvement</li> <li>International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operator</li> <li>Regulations enforced by Flag States and subject to rigorous Port State Control checks, coordinated in European waters</li> <li>NW Standing Environment Group</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Maritime & Coastguard Agency (MCA)
Structural	HL21	Land movement (i.e. caused by tremors or landslides)	Roads and access routes impassable for a time. Emergency access into/out of large populated areas difficult or impossible; severe congestion over wide geographical area. Loss of power and other essential services over wide geographical area. Potential for a number of persons to be trapped or missing either in landslide itself and/or in collapsed structures. A number of fatalities are possible depending on the size and location of land movement, and the limitations of emergency access to injured persons.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Local Authority Major Emergency Plan</li> <li>Local Authority Emergency Rest Centre Plan</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Local Authorities (Lead – Wirral MBC)
Structural	HL23	Bridge closure or collapse	Roads, access routes and transport infrastructure impassable for considerable length of time. Severe congestion over wide geographical area. Emergency access into/out of large populated areas severely restricted. Potential for a number of persons to be trapped or missing	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Local Authority Major Emergency Plan</li> <li>Local Authority Emergency Rest Centre Plan</li> <li>BTP, ACPO, Network Rail - Police Bridge Strike Protocol</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> </ul>	Local Authorities (Lead – Wirral MBC)
Disruptive Industrial Action	H33	Industrial action by prison officers	A single unofficial strike by prison officers nationally, lasting more than 24 hours.	Medium High (4)	Limited (1)	<ul style="list-style-type: none"> <li>Police Plan - Force Mobilisation / HMP Liverpool / HMP Altcourse / HMP Kennet / Ashworth Hospital</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
Disruptive Industrial Action	H35	Industrial action by key Rail workers	Strike action resulting in the near-total shut down of the rail network on a national scale severe disruption would last for a week as part of a 3 month campaign.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Rail industry contingency plans in place and regularly monitored.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	British Transport Police
Local Risks	L2	Unexploded ordnance	Unexploded ordnance detonates resulting in a fatality, injury and / or damage to property.	Medium Low (2)	Limited (1)	<ul style="list-style-type: none"> <li>Police Plans for Bomb Threat &amp; Suspect Packages</li> <li>Police Plans for Unexploded Ordnance handed in or reported to the Police</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
Local Risks	L3	Fire in Occupied Place of Entertainment /Sports Stadium	Major fire could cause fatalities and casualties.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS SOP Major Incidents, MFRS SOP Venues, MFRS Individual Site Specific Plans</li> <li>Police Plans for Merseyside Sports Stadia</li> <li>Individual site specific plans</li> <li>Associated MRF Multi - agency plans</li> <li>National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
Local Risks	L6	Transport Hazards Failure of infrastructure in Mersey Tunnel (including collapse and flooding)	Could cause fatalities and casualties and people trapped or missing Evacuation of motorists. Loss of major cross river transport link. Disruption to transport network, local economy. Possible loss of communications and utilities. Major costs of rebuilding.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Mersey Tunnels plans for Emergency Closure, Evacuation, Failure of Infrastructure.</li> <li>MFRS SOP Major Incident, MFRS SOP Tunnels, MFRS SOP Collapsed Structure, MFRS Service Instruction Tunnel Gas Main.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Mersey Tunnels Police
Local Risks	L7	Transport Hazards Release of hazardous materials in Mersey Tunnel	Could cause fatalities and casualties. Evacuation of motorists. Loss of major cross river transport link. Disruption to transport network.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Mersey Tunnels plans for Emergency Closure, Planned Closures, Evacuation, Release of Hazardous Material, and Escort of Vehicles Carrying Dangerous Goods.</li> <li>MFRS SOP Major Incident, MFRS SOP Tunnels, MFRS SOP Hazardous Materials, MFRS SOP Mass Decontamination</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Mersey Tunnels Police

Category	Risk Ref	Hazard or Threat	Outcome Description & Further Information	Likelihood	Impact	Controls in Place	Lead Responsibility
				Risk Rating			
Local Risks	L8	Transport Hazards Local accident involving an aircraft crash off shore	Light aircraft causing fatalities/casualties.  Cargo aircraft causing fatalities/casualties with environmental impact.	Low (1)	Limited (1)	<ul style="list-style-type: none"> <li>ARCC Plans</li> <li>MFRS SOP Major Incident, MFRS SOP Air, MFRS SOP Water.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	To be confirmed
				Low			
Local Risks	L9	Transport Hazards Transport incident involving radiological or nuclear materials	Could cause fatalities. People and local area may be contaminated.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS SOPs Major Incidents, Hazardous Materials, CBRNE Incidents, Mass Decontamination, MFRS DIM Vehicle.</li> <li>Government Decontamination Service</li> <li>RADSAFE Scheme</li> <li>NAIR Scheme</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Low			
Local Risks	L13	Public Disorder Public events disorder	Public events disorder resulting in damage to property and injuries.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>Police Plans are developed prior to significant public safety events</li> <li>Multi Agency Exercises held prior to large scale events</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public</li> </ul>	Merseyside Police
				Low			
Local Risks	L14	Public Disorder Prison riots	Prison riots taking place which would result in damage to property and/or either fatalities or injuries.	Medium Low (2)	Limited (1)	<ul style="list-style-type: none"> <li>Police Plans - Force Mobilisation / HMP Liverpool / HMP Altcourse / HMP Kennet</li> <li>HM Prison Service Contingency Plans</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Police
				Low			
Local Risks	L15	Public Disorder Secure Hospitals	Disorder occurring resulting in damage to property and/or either fatalities or injuries.	Low (1)	Limited (1)	<ul style="list-style-type: none"> <li>Police Plans relating to secure establishments</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	NHS England
				Low			
Local Risks	L16	Fire / Explosion / Contamination at a waste management or recycling centre	Up to 5km around the site, could cause fatalities and casualties. Could affect local transport infrastructure and environmental pollution.	Low (1)	Minor (2)	<ul style="list-style-type: none"> <li>MFRS SOPs Fighting Fires in Refuse, Asbestos, Mass Decontamination, Sewers, Acetylene, LPG</li> <li>WISH Forum Reducing Fire Risk At Waste Management Sites</li> <li>Environment Agency Guidance on Development of Site Specific Multi Agency Contingency Plans with LRFs</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Merseyside Fire & Rescue Service (MFRS)
				Low			
Local Risks	L17	Temporary Risks Festivals / Sporting / Leisure Events	Life Risk Property Risk Environmental Risk	N/A	N/A	<ul style="list-style-type: none"> <li>Event Organisers complete the risk assessment and submit them to multi agency safety advisory groups for consideration and approval.</li> <li>Associated MRF Multi - agency plans</li> <li>Associated National Emergency Plans</li> <li>Warning &amp; Informing the Public.</li> </ul>	Event Organiser
				N/A			