

# National environmental risk assessment

Date  Time

FRS Incident No.

EA NIRS No.

*Details of persons completing this assessment*

FRS

Incident address/location

Polluter information

EA

## General overview

Is there a risk to life or health? Yes  No  Have suitable environmental control measures been deployed? Yes  No  Has the appropriate environment agency been informed? Yes  No  Is the EA in attendance? Yes  No

*Information available from the environment agencies:*

EA hostile site or illegal site\*

Industrial site\* COMAH

Hydrology\* (observation)

Industrial site - permit

Monitoring \* (flow)

Emergency plan/site specific risk information\*\*

\* Information from EA mapping

\*\*Information from EA database

## Step 1 - Gather risk information

Source (environmental hazards)	Pathways	Receptors
Fire water run-off <input type="checkbox"/>	Surface water <input type="checkbox"/> <i>(rivers, ditches etc.)</i>	Nearby population <input type="checkbox"/>
Smoke plume <input type="checkbox"/>	Drains/utilities <input type="checkbox"/> <i>(surface and foul sewerage systems)</i>	Surface water <input type="checkbox"/> <i>(rivers, ponds, lakes, coastal waters etc.)</i>
Physical damage <input type="checkbox"/> <i>(trampling, compression, parking)</i>	Vehicles/transport <input type="checkbox"/>	Areas of natural conservation <input type="checkbox"/>
Gases <input type="checkbox"/>	Wind/airborne <input type="checkbox"/>	Environmental protection designations <input type="checkbox"/> <i>(source protection zones, groundwater, etc.)</i>
Fuels/oils <input type="checkbox"/> <i>(mineral / vegetable)</i>	Groundwater/permeable soil <input type="checkbox"/>	Drinking water <input type="checkbox"/> <i>(aquifers, reservoirs, etc.) Permits</i>
Organic substances <input type="checkbox"/> <i>(e.g. milk, beer, fruit juice, sewage, etc.)</i>	Others <i>Please specify</i>	Fisheries, bathing waters <input type="checkbox"/>
Chemicals <input type="checkbox"/>		Others <i>Please specify</i>
Pesticides/fertilisers <input type="checkbox"/>		
Foams/CAFs <input type="checkbox"/>		
Detergents <input type="checkbox"/>		
Radioactive hazards <input type="checkbox"/>		
Biohazards <input type="checkbox"/> <i>(e.g. blood, bacteria, etc.)</i>		
Hazardous fly-tipped waste <input type="checkbox"/>		
Suspended solids <input type="checkbox"/> <i>(e.g. sand, silt, etc.)</i>		
Utilities <input type="checkbox"/> <i>(gas/oil pipelines)</i>		
Others <i>Specify</i>		

If there are entries in all three elements from this step it is likely that a risk to the environment is present.

Source  Pathway  Receptor  = Environmental Risk

Action should be taken to **Eliminate, Reduce, Isolate** or **Control** the environmental hazard.

## Step 2 - Draw a plan or describe the incident *(Include location of hazards, pathways and receptors:)*

### Step 3 - Impact

Estimate the likely impact of any environmental damage?

- Low** *It is unlikely that environmental damage will occur. Take reasonable action to reduce the risk.*
- Medium** *There is significant evidence to suggest that environmental damage may occur. Take action to protect the environment and monitor.*
- High** *The receptor is located within an area of high environmental risk. It is likely that environmental damage will occur.  
Prioritise and action to contain pollutants in liaison with the relevant environmental agency.*

### Step 4 - Actions

#### Control measures

Liaise with relevant EA/conservation body	<input type="checkbox"/>
Liaise with hazmat adviser (HMA)	<input type="checkbox"/>
Contain / absorb (e.g. Grab pack EPU equipment, etc.)	<input type="checkbox"/>
Reduce quantity of media being applied	<input type="checkbox"/>
Controlled burn	<input type="checkbox"/>
Alternate firefighting media	<input type="checkbox"/>
Recycle firefighting water	<input type="checkbox"/>
Dilution	<input type="checkbox"/>
Discharge to foul sewer (with approval from sewerage undertaker)	<input type="checkbox"/>
Extinguish fire	<input type="checkbox"/>
Accelerated controlled burn	<input type="checkbox"/>
Air quality advice from relevant body	<input type="checkbox"/>
Removal/separation/quench in bund	<input type="checkbox"/>
Treatment/disposal	<input type="checkbox"/>
Defined access/egress route (protected areas)	<input type="checkbox"/>
Water spray to reduce plume	<input type="checkbox"/>
Others <i>Please specify</i>	

#### Environmental protection actions in place

1 Contain at source	<i>Details of action taken (include equipment used)</i>
2 Contain close to source	<i>Details of action taken (include equipment used)</i>
3 Contain on the surface	<i>Details of action taken (include equipment used)</i>
4 Contain in drainage system	<i>Details of action taken (include equipment used)</i>
5 Contain on or in watercourse	<i>Details of action taken (include equipment used)</i>

### Supporting information

In addition to the environmental risk assessment and any subsequent action taken to protect the environment, the relevant environment agency should be informed where:

- The flow of water being pumped at an incident exceeds 4000 litres per minute (*approximately*)
- The incident involves radiation, hazardous materials or CBRNe
- Where decontamination operations are in use
- Where the substances are above normal domestic quantities or where it is confirmed that quantities of products involved reach the suggested thresholds below.

25 litres or more	Oil or fuel
	Firefighting foam concentrate
	Detergents including: <i>Washing powder, washing-up liquid, shampoos, soaps, car cleaning products, etc.</i>
	Disinfectants including: <i>household bleach, Dettol, etc.</i>
	Paints and dyes
	Cooking oils, glycerine, alcohols
	Cutting lube or water-soluble polymers

250 litres or more	Food products, particularly: <i>sauces, sugars, salt, syrups, milk, cream, yogurt and vinegar</i>
	Any beverage, including: <i>soft drinks, beers, wines and spirits</i>
	Organic liquids/solids, including: <i>blood, offal, farmyard slurries, sewerage sludge, anti-freeze</i>
500Kg of sand, silt, cement, chalk, gypsum/plaster	

The Environment Agency/Natural Resources Wales will be in touch with you shortly to arrange for the removal of the pollution prevention equipment used. In the meantime, if you have any questions please contact us on 03708 506 506\*\* (Mon-Fri, 8 am - 6pm) or on 0800 807060 in the case of an emergency.

### **What does this mean for me?**

Please note that the law allows us to recover the cost of investigating and dealing with incidents from the person(s) responsible. This is known as the 'Polluter Pays' principle. The Environment Agency/ Natural Resources Wales can still recover costs when an incident does not result in pollution of water.

You will be liable for any damage caused to equipment left in situ by the fire service, if you attempt to remove it.

If we believe that an offence was committed in relation to the incident, this will be dealt with separately.