**BIOSECURITY RISK ASSESSMENT**

Instructions

Use this form to help minimise the risks to your site or business from the accidental spread of invasive non-native species (INNS) or plant and animal diseases.

A. Description of location

1. List / describe:
   - Location. (i.e. site - size, type of habitats and land or water use).
   - Reason for the assessment.
   - Invasive non-native species (INNS) or diseases known to be onsite.
   - Vulnerable species, habitats or other assets that may be affected.

B. Activity Risk Assessment

2. List activities which may spread INNS or diseases

3. For each activity, assess the severity (S), and likelihood (L) of spreading INNS / diseases

   **Severity of impact (S)** - Non-native species and diseases have the potential to cause harm to the environment, economy and the way that we live. The severity of the impact should be rated according to the following table:

   |   | Minimal very local and /or very short term | Minor changes at a local level | Moderate large change at local level | Major long term changes to local area with possible impact at wider level | Massive widespread and long term changes |
---|---|---|---|---|---|
1 | 1 | 2 | 3 | 4 | 5 |
2 | 5 | 10 | 15 | 20 | 25 |
3 | 4 | 8 | 12 | 16 | 20 |
4 | 3 | 6 | 9 | 12 | 15 |
5 | 2 | 4 | 6 | 8 | 10 |
6 | 1 | 2 | 3 | 4 | 5 |
7 | 1 | 2 | 3 | 4 | 5 |

   **Likelihood of spread (L)** - This a consideration of how likely the activity is to cause the spread of a non-native species or disease, and should be rated according to the following table:

   |   | Very unlikely - theoretically possible but not expected to occur | Unlikely – has not occurred anywhere in living memory | Possible – has occurred at least once somewhere but not locally | Likely – has happened on several occasions elsewhere, or at least once locally | Very likely – happens continually and expected to occur |
---|---|---|---|---|---|
1 | 1 in 10,000 years | 1 in 1,000 years | 1 in 100 years | 1 in 10 years | Once a year |
2 | 5 | 10 | 15 | 20 | 25 |
3 | 4 | 8 | 12 | 16 | 20 |
4 | 3 | 6 | 9 | 12 | 15 |
5 | 2 | 4 | 6 | 8 | 10 |
6 | 1 | 2 | 3 | 4 | 5 |

4. Calculate overall risk (R) for that activity by multiplying S x L.

   | Severity of impact | Likelihood of spread |
---|---|---|
1 | 1 | 1 |
2 | 2 | 2 |
3 | 3 | 3 |
4 | 4 | 4 |
5 | 5 | 5 |

The aim is to reduce the risk rating to as low as is reasonably practicable – a score of 4 or less is usually considered acceptable and a score of 12 or above are clearly unacceptable.

5. Identify and describe control measures which should be taken to reduce the likelihood of INNS / diseases being spread

6. Assign a rating of 1-5 (low to high) for residual likelihood (RI) of INNS / diseases being spread after control measures have been implemented.

7. Recalculate residual risk (Rr) by multiplying S x RI.

   | RI | 0 – 4: Risk are likely to be acceptable | 4 – 12: Consider further options for reducing risk; if not available consider proceeding with caution | 12+: Risk is too high; do not proceed until further consideration of control options has been taken into account |
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Completed by:

Assessment date:
A. Description of location, work being assessed, risk species / diseases, and vulnerable species / habitats

<table>
<thead>
<tr>
<th>Location</th>
<th>Reason for the assessment</th>
<th>INNS or diseases known to be on or near site</th>
<th>Vulnerable species, habitats or assets that could be affected by INNS or disease</th>
</tr>
</thead>
</table>
| Reservoir X. 10 mile circumference, drinking water, plus lowland landscape (nature reserve) | Management of the reservoir including management of vegetation, the reservoir, and of the visitor centre. | Killer Shrimp | Native aquatic invertebrates  
SAC, SPA, SSSI  
Nationally important populations of 120 bird species  
Lowland landscape |

B. Activity Risk Assessment

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hazard description</th>
<th>Risk rating</th>
<th>Control measures</th>
<th>Rr after controls</th>
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| Use of heavy plant on site | INNS could be spread in tyre tracts and other parts of machinery that contact soil or vegetation | 3 3 9 | • Ensure machinery is clean before bringing on, moving within, or taking off site  
• Where possible machinery to remain on hard standing and established tracks | 3 |
| Personnel access to reservoir | Footwear, clothing and equipment could spread soil, vegetation, and water borne INNS and diseases. | 3 4 12 | • Personnel to enter and exit site with clean clothing, footwear and vehicle  
• Consider clothing which is easy to keep clean (e.g. wellington boots, waterproofs), use site specific clothing if possible  
• Keep access to a minimum  
• Avoid entering water where practical, if not, clean clothing / footwear before and after doing so | 3 |
| Personnel access to nature reserve | Boots could spread soil and vegetation borne INNS and diseases. Vehicle tyres could spread INNS and diseases | 2 2 4 | • See “Personnel access to reservoir”  
• If practical, keep to footpaths when walking, don’t take vehicles onto reserve or keep to established tracks  
• Avoid livestock areas or areas with known plant disease, or use extra precautions if unavoidable. Clean boots before and after accessing these areas | 2 |
| Fishery | Footwear, clothing and equipment could spread soil, vegetation, and water borne INNS and diseases. | 3 4 12 | • See “Personnel access to reservoir”  
• Fish to be bred onsite where possible, or bought from a reputable dealer and quarantined  
• Ensure all equipment is clean before and after use, use site specific equipment if possible | 3 |
| Activity                              | INNS and diseases could be transported with vegetation on and offsite. Inappropriate disposal onsite could lead to regrowth / spread | 2  | 2  | 4  | • Where possible, waste vegetation to be composted / burned on site  
• Be aware that ineffective destruction may lead to regeneration of INNS  
• If moving waste vegetation offsite, take care to avoid dropping any fragments | 2  |
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Biofouling must be thoroughly removed from all hulls and other submerged surfaces before transfer to another site.

- Minimise contact time in which equipment is exposed to the water. This is particularly important for items such as trailers, which have cavities that may retain water and be hard to inspect.
- If possible, provide trailers and launching trolleys on site and encourage use instead of personal equipment.
- Any water collected in bilges or inside kayaks and canoes to be completely emptied before leaving the site.
- Water-cooled engines to be washed through with tap water to ensure the system does not harbour non-native species.

| Dog walking | INNS and diseases could be spread on coat and paws | 3 | 1 | 3 | Ensure dog’s coat is clear of seeds and accumulated mud before entering / leaving site | 3 |