

**Ecological Land  
Management**

Conservation &  
Wildlife Protection

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## **BIOSECURITY RISK ASSESSMENT**

**For: WCBC**

**Site: Nant Silyn**

**Revision 1**

**Date: 28/11/19**

**Prepared by**

**Phil Pearce**

**Signed**

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**Activity Assessed:** Biosecurity

**Date:** 28/11/19 **Assessor:** Philip Pearce

Information to be included in ALL site inductions.

There is an ever increasing risk of spreading biological pathogens and invasive non-native species (INNS) between sites and the implications can be far reaching. This site is known to have at least 5 species of INNS present, so there is also the risk of spreading it within the site.

To minimize the spread of these species, the following protocol should be observed.

**CRITICAL WORKS**

Fence off Cotoneaster affected area ASAP until at least May 2020

Preferably no soil stripping in the Cotoneaster area ever

NO topsoil off site from the Cotoneaster area

NO works outside Otter/Badger fence without biosecurity supervision

| POTENTIAL HARM    | RISK FACTOR |          |             | PERSONS AT RISK | CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RISK FACTOR AFTER CONTROLS |          |             |
|-------------------|-------------|----------|-------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------|-------------|
|                   | LIKELIHOOD  | SEVERITY | RISK FACTOR |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LIKELIHOOD                 | SEVERITY | RISK FACTOR |
| Japanese Knotweed | 5           | 5        | 25          | Environment     | 1. Japanese Knotweed is present at the site, the location as being identified on the attached plan. This is within the site ownership, but not within the development plot.<br>2. Although the roots can extend up to 7m from the stem, all potentially contaminated material was removed during the demolition stage and the void backfilled with clean material.<br>3. As long as the area outside the badger/otter fence is <b><u>NOT DISTURBED IN ANY WAY</u></b> (incl pedestrian access) it should not create any issues for construction.<br>4. The stems have been treated in accordance with best practice (stem injection or foliar spraying) in 2017 & 2019.<br>5. A continued programme of treatment will need to be implemented to ensure its eventual eradication in the coming years. | 1                          | 5        | 5           |

|                  |   |   |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |
|------------------|---|---|----|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
| Himalayan Balsam | 4 | 4 | 16 | Environment | <ol style="list-style-type: none"> <li>1. Himalayan Balsam is known to be present along the upstream sections of the River Gwenfro. It is therefore likely to be present in the section of land between the development boundary and river bank which is within the site ownership.</li> <li>2. As long as the area outside the badger/otter fence is <b>NOT DISTURBED IN ANY WAY</b> (incl pedestrian access) it should not create any issues for construction.</li> <li>3. To prevent its spread by seed into the construction area, all plants should be strimmed/hand pulled just after coming in to flower. Eradication will not be possible due to the plants providing seed from upstream.</li> <li>4. If any plants are identified (identification sheets attached) within the construction area they should immediately be fenced off and ELM contacted on the number at the top of this document.</li> </ol> | 1 | 4 | 4 |
| Montbretia       | 5 | 3 | 15 | Environment | <ol style="list-style-type: none"> <li>1. This plant grows from a corm (similar to a bulb), identification sheets area attached.</li> <li>2. 4 clumps of it were identified on the site in the locations shown on the plan. These were initially treated with a Glyphosate based herbicide.</li> <li>3. After a period of approx. 2 weeks, the area was excavated to remove the corms. The material was bagged up and removed off site.</li> <li>4. This will hopefully have eradicated the plant on site, however if more plants are identified they should immediately be fenced off and ELM should be contacted on the number above</li> </ol>                                                                                                                                                                                                                                                                      | 1 | 3 | 3 |
| Russian Vine     | 5 | 3 | 15 | Environment | <ol style="list-style-type: none"> <li>1. The root system for this plant is based outside the development boundary in the location shown on the plan.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 | 3 | 3 |

|                                          |   |   |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |
|------------------------------------------|---|---|----|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|
|                                          |   |   |    |             | <p>2. As long as the area outside the badger/otter fence is <b><u>NOT DISTURBED IN ANY WAY</u></b> (incl pedestrian access) it should not create any issues for construction.</p> <p>3. The rapidly growing vines had encroached inside the development area, and these were removed prior to the installation of the badger/otter fence.</p> <p>4. Long term management of this plant will need to be herbicide application of the leaves in the spring/summer with a Glyphosate based herbicide, potentially for several years to ensure eradication.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |
| Cotoneaster (probably Himalayan variety) | 5 | 3 | 15 | Environment | <p>1. This well established plant was growing within the construction boundary in the location as marked on the plan.</p> <p>2. It was herbicide treated and then cut to ground level, with all arisings being removed from site following best practice guidelines and disposed of to landfill.</p> <p>3. The stumps were then herbicide treated to further reduce the chances of there being any regrowth.</p> <p>4. It is likely however that there will be seedlings germinate in the spring and it is therefore essential that this area is fenced off for as long as possible during the construction phase and nobody allowed inside.</p> <p>5. This fence should stay in place for as long as possible during the construction phase, until the end of May as an absolute minimum.</p> <p>6. The area inside the fence should be treated with a Glyphosate based herbicide at least once prior to construction works commencing.</p> <p>7. Preferably the topsoil should <b>NOT</b> be stripped off this area, but the ground built up directly on top of it, so as to bury any dormant seeds</p> | 2 | 3 | 6 |

|                                 |   |   |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |    |
|---------------------------------|---|---|----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|
|                                 |   |   |    |             | <p>8. Any topsoil stripped from this area <b><u>MUST NOT</u></b> be removed off site. It should be stockpiled separately on site and utilized in a specific location after so that monitoring can be undertaken for future seedlings.</p> <p>9. No machinery should track in the area, as they are likely to pick up seeds and any buckets used for soil stripping should be thoroughly cleaned before being used on any other activities to prevent the spread of seeds.</p>                                                                                                                                                                                              |   |   |    |
| Spreading invasives on/off site | 5 | 5 | 25 | Environment | <p>1. It is essential that none of the above listed species are transported off site and infect other locations.</p> <p>2. Thankfully the majority are outside of the construction area and therefore represent little risk.</p> <p>3. The Cotoneaster represents the biggest risk and the procedures above must be followed to prevent its spread.</p> <p>4. There is a risk that invasive plants could be brought on to site with machinery, equipment and boots and therefore all of these should be clean before entering site.</p> <p>5. Similarly, all machinery, equipment and boots should be clean when leaving site, so as to follow best practice guidance.</p> | 2 | 5 | 10 |

**THE BASIC PREMIS OF THE ABOVE IS TO ENSURE THAT NOTHING COMES ON TO THE SITE AND NOTHING LEAVES THE SITE, AND THE PLANTS ALREADY PRESENT DO NOT SPREAD WITHIN THE SITE**

I have read and understand the above risk assessment.

Signed

Name in block letters

Date