

# MILLTOWN, GLOSSOP INVASIVE PLANT SPECIES MANAGEMENT PLAN

**Job Number:** IPM 23 1009

**Date of Plan:** 02/08/2023

**Client:** Watson Homes



INCREASING LAND VALUE

LK  
GROUP

## DOCUMENT VERIFICATION

|                       |                                        |                       |                                                                                       |
|-----------------------|----------------------------------------|-----------------------|---------------------------------------------------------------------------------------|
| <b>Site Address</b>   | Milltown, Glossop, SK13 8PX            |                       |                                                                                       |
| <b>Job Title</b>      | Milltown                               |                       |                                                                                       |
| <b>Document Title</b> | Invasive Plant Species Management Plan |                       |                                                                                       |
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# 1 OVERVIEW

## 1.1 Project Description:

The LK Group was asked to provide a survey and management plan for Invasive Plant Species (IPS) within the Milltown, Glossop site.

## 1.2 Invasive Species

### 1.2.1 Site Visit

Following receipt of the site plan indicating the presence of Invasive Plant Species on site our survey on the 21<sup>st</sup> February 2023 confirmed the location and quantified the area affected by the infestation.

The Invasive Plant Species are located in several areas across the site, Figure 1 below:



**Figure 1: Refer to Appendix showing full site plan**

### **1.2.2 Invasive Plant Species:**

The recommended management plan is to undertake a “controlled excavation” of the invasive plant species material followed by removal to licensed landfill.

As some of the invasive plant species exist on the riverbank and therefore excavation is not viable, we will conduct a herbicide programme to control these infestations. Future re-infestation of the riverbank from infestations upstream is likely.

## 2 SEQUENCE OF OPERATIONS

The sequence of operations shall be as follows:

- The demarcation and isolation of all contaminated areas to prevent any spread from other contractors.
- Excavation of invasive plant species material.
- Temporary stockpiling of invasive plant species material.
- Transfer of invasive plant species material to licensed landfill by 8-wheel wagon.
- Herbicide treatment of invasive plant species on riverbank.
- Final tidy and completion.
- Ongoing herbicide monitoring and treatment programme to the site including any imported soils in conjunction with the soils testing methodology strategies.

### 3 WORKING AREA

The working area shall allow sufficient space for operatives to work safely adjacent to the site plant (i.e. 360° hydraulic excavator, 9t dumper & 8 wheel wagon) and will include:

- The areas contaminated with invasive plant species
- Transit routes to and from the invasive plant species areas
- The invasive plant species temporary stockpile area
- The wagon loading area

#### 3.1 Controlled Excavation

Before any ground disturbance is carried out a Permit to Dig form will be filled out (**See Appendix 1**).

The areas subjected to the remediation program shall be excavated with a ditching bucket on a 13 tonne 360° excavator and 9t dumper. The detailed method proposed is as follows:

- All JK plants shall be demarcated before any work takes place on site to prevent any spread from existing contaminated areas to 'clean' areas from plant and operatives on site.
- Where practical, excavate from outside the contaminated area to the extent of the JK rhizomes. This reduces the likelihood of getting contaminated material on the tracks and spreading around site. Where it is not possible the tracks will be cleaned in situ before the excavator moves elsewhere on site.
- The excavated material is then stockpiled to a waste management area.
- When an area or section appears to be clean, a careful search of the surface shall be carried out by experienced personnel. If no JK rhizomes are found a further 100mm layer shall be removed and moved to the stockpile area.
- If no more JK is found, a further 200-300mm of material shall be loosened and searched. If on this third check no rhizomes are found, the material shall be left in-situ.
- If more JK material is found at any stage, the whole process is repeated.
- When moving the JK material from the excavator to the dumper, great care will be taken to ensure no cross contamination takes place. This will involve filling each instrument to at least 20cm of the top and through thorough checks of the tyres and tracks.
- A root barrier membrane will be installed to the stockpile area to protect the site from future regrowth.
- When all JK that is being excavated has been removed and stockpiled a bund will be formed to allow easy access for future treatment.
- The edges of the excavations shall be battered back to a safe angle (approximately 30°), to ensure safe working conditions for the site operatives.
- Following completion of the works the stockpile area will be fenced off with Heras fencing to stop any inadvertent material being cross contaminated during the development works.

Information related to the excavation of the contaminated area shall be recorded using the Dig Control Form (**see Appendix 2**). All occurrences on site will be recorded in the Foreman's Diary of Works Form (**see Appendix 3**).

### 3.2 Monitoring and Spraying Program

A spraying and monitoring programme should be implemented to inspect the whole site to review any unexpected regrowth. The monitoring program, which includes spraying as required, is recommended to last for a three to four-year period.

The recommended monitoring program is as follows:

- Year 1 – at least 2 visits
- Year 2 – at least 2 visits
- Year 3 – at least 2 visits
- Year 4 – at least 2 visits

The application of herbicide shall be undertaken by knapsack sprayers, using telescopic or extended lances. Pressure limitation valves will be set at 1 Bar and coarse droplet nozzle shall be used to reduce drift to a minimum. Glyphosate bioactive will be used in all circumstances within this site.

Information related to the monitoring and spraying programme shall be recorded using the Site Monitoring and Spraying Log (**see Appendix 4**).

## 4 OPERATIONAL RISK MANAGEMENT

In order to prevent cross-contamination, tracks/wheels and compartments of machines in addition to any tools used on the site shall be inspected and cleaned as required before moving from the contaminated areas.

IPC requires that information relating to the physical and chemical nature of the ground containing the JK areas are provided. The information will assist IPC in its Health & Safety plan for the site and will also ensure that no preferential pathways will be created for contaminants that may be present in the ground.

All operatives shall wear appropriate PPE.

## 5 ADDITIONAL SERVICES

In addition to the services described, The LK Group shall provide the resources and management to:

- Manage and control the JK on site to enable other trades and construction work to undertake their activities with the least hindrance.
- To provide documentary and photographic evidence to be able to demonstrate to any legislative or other interested bodies that due care has been taken to address all issues relating to the on-site Invasive Plant Species problem.

The site will be monitored for a minimum of 4 years post completion with relevant reports being issued where necessary.

### 5.1 RICS Risk Assessment

The RICS risk assessment takes into account the real risk to a property and addresses some of the concerns of the lenders and insurance companies.

The adjacent table defines a category for risk depending on the distance between a habitable space and the nearest stand of Invasive Plant Species.

As the site is to be demolished and remediated this will be confirmed the proposed development has been confirmed.

**Table 1: Japanese Knotweed risk categories**

| Category | Descriptors                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4        | <p>Japanese Knotweed is within 7 metres of a habitable space, conservatory and/or garage, either within the boundaries of this property or in a neighbouring property or space;</p> <p><b>and/or</b></p> <p>Japanese Knotweed is causing serious damage to outbuildings, associated structures, drains, paths, boundary walls and fences and so on.</p> <p><b>Further investigations by an appropriately qualified and/or experienced person are required.</b></p> |
| 3        | <p>Although Japanese Knotweed is present within the boundaries of the property, it is more than 7 metres from a habitable space, conservatory, and/or garage. If there is damage to outbuildings, associated structures, paths and boundary walls and fences, it is minor.</p> <p><b>Further investigations by an appropriately qualified and/or experienced person are required.</b></p>                                                                          |
| 2        | <p>Japanese Knotweed was not seen within the boundaries of this property, but it was seen on a neighbouring property or land. Here, it was within 7 metres of the boundary, but more than 7 metres away from habitable spaces, conservatory and/or garage of the subject property.</p>                                                                                                                                                                             |
| 1        | <p>Japanese Knotweed was not seen on this property, but it can be seen on a neighbouring property or land where it was more than 7 metres away from the boundary.</p>                                                                                                                                                                                                                                                                                              |

## 6 HEALTH & SAFETY MANAGEMENT PROPOSALS

All staff shall wear the appropriate safety clothing, including protective headgear, safety boots, and high-visibility jackets/vests.

The work shall be carried out in conformity with the Requirements of the Health and Safety Executive Guidance Notes:

- No. GS6 'Avoidance of Danger from Overhead Electrical Cables';
- No. HS(G) 47 'Avoiding Danger from Underground Services'.

Spraying shall be undertaken by operatives qualified to recognised national standards and shall follow all training guidelines and label recommendations and DEFRA off-label recommendations, where applicable. Spraying activities shall comply with the relevant legislation including:

- *The Control of Pollution Act 1974;*
- *The Control of Pesticides Regulations 1986;*
- *The Code of Practice for the Use of Approved Pesticides in Amenity Areas 1988;*
- *The Control of Substances Hazardous to Health Regulations (COSHH) 2004;*
- *The Control of Pesticides Regulations under the Food and Environment Protection Act (FEPA) 1995;*
- *And, Pesticides: Codes of Practices 1990.*

6.1 Operatives Confirmation

All operatives will sign and date below which states that they have read and understood this Method statement and associated Risk Assessments

| Name  | Signature | Date  |
|-------|-----------|-------|
| ..... | .....     | ..... |
| ..... | .....     | ..... |
| ..... | .....     | ..... |
| ..... | .....     | ..... |
| ..... | .....     | ..... |
| ..... | .....     | ..... |
| ..... | .....     | ..... |
| ..... | .....     | ..... |

## 7 APPENDICES

### 7.1 Appendix 1 – Permit to Dig Form



The LK Group  
Eton Business Park  
Eton Hill Road  
Greater Manchester  
M33 2WJ

Tel: 0161 763 7200  
Fax: 0161 763 7318

**Project:**.....**Date:**.....**Time:**.....

**Location:**.....

#### Section 1 (to be completed by IPC Site supervisor)

- Have current drawings showing location, type and status (i.e. live or dead) of all under-ground services been provided  
.....Yes/No
- Has a visual inspection of the dig area been carried out  
.....Yes/No
- Has a Cable Locating Device (CAT) been used to sweep the area to establish under-ground services  
.....Yes/No
- Are all operatives conversant with safe digging practices?  
.....Yes/No
- Are appropriate tools available  
.....Yes/No

Any other precautions (if any)

I hereby declare that the above precautions will be put into effect prior to the work commencing

**Name:** .....**Sign:**.....**Date:**.....**Time:**.....

#### Section 2 Control

I am satisfied that the precautions identified above are satisfactory for the works to be undertaken

Digging may proceed .....Yes/No

Further action required: (Specify)

**Name:** .....**Sign:**.....**Date:**.....**Time:**.....

#### Section 3 Completion

I am satisfied that the work area has been left in a safe condition and therefore this permit is hereby cancelled

**Name:** .....**Sign:**.....**Date:**.....**Time:**.....

## 7.2 Appendix 2 – Dig Control Form



The LK Group  
Eton Business Park  
Eton Hill Road  
Greater Manchester  
M33 2WJ

Tel: 0161 763 7200  
Fax: 0161 763 7318

**Site Name:**

**Job Number:**

| Area/<br>Section | (A) Dig to visual<br>extent of JK &<br>search | (B) Dig a further<br>100mm layer &<br>search | (C) Dig & loosen a<br>further 200-300 &<br>search | Arising's<br>fate | Initials | Date |
|------------------|-----------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------|----------|------|
| ...              |                                               |                                              |                                                   |                   |          |      |
| ...              |                                               |                                              |                                                   |                   |          |      |
| ...              |                                               |                                              |                                                   |                   |          |      |
| ...              |                                               |                                              |                                                   |                   |          |      |
| ...              |                                               |                                              |                                                   |                   |          |      |

I confirm that the works to the above site have been carried out according to the method statement for Invasive Plant Species treatment, submitted for works on this site.

|                    |                                       |
|--------------------|---------------------------------------|
| Supervisor for IPC | Client representative (if applicable) |
| Name:.....         | Company:.....                         |
| Date:.....         | Name:.....                            |
| Signed:.....       | Date:.....                            |
|                    | Signed:.....                          |

### 7.3 Appendix 3 – Forman's Diary of Works



The LK Group  
 Eton Business Park  
 Eton Hill Road  
 Greater Manchester  
 M33 2WJ

Tel: 0161 763 7200  
 Fax: 0161 763 7318

|                      |                 |                |
|----------------------|-----------------|----------------|
| <b>Job No:</b>       | <b>Address:</b> | <b>Client:</b> |
| <b>Date started:</b> | <b>Foreman:</b> |                |

| Date | Time Started | Persons Present | Notes | Time Finished |
|------|--------------|-----------------|-------|---------------|
|      |              |                 |       |               |
|      |              |                 |       |               |
|      |              |                 |       |               |
|      |              |                 |       |               |
|      |              |                 |       |               |

## 7.4 Appendix 4 – Monitoring Program Form



The LK Group  
Eton Business Park  
Eton Hill Road  
Greater Manchester  
M33 2WJ

Tel: 0161 763 7200  
Fax: 0161 763 7318

|                          |                  |                       |
|--------------------------|------------------|-----------------------|
| <b>Site:</b>             | <b>Client:</b>   | <b>Date:</b>          |
| <b>Job No:</b>           | <b>Visit No:</b> | <b>Time on site:</b>  |
| <b>Operatives Names:</b> |                  | <b>Time off site:</b> |

| Area No | Est % or<br>m <sup>2</sup> live | Details | Photo No |
|---------|---------------------------------|---------|----------|
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |
|         |                                 |         |          |

| Herbicide used | Rate ml/litre | No of (L) mix<br>used | Total<br>Chem | Wind | Weather |
|----------------|---------------|-----------------------|---------------|------|---------|
|                |               |                       |               |      |         |
|                |               |                       |               |      |         |

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Operatives Signature:</b> | <b>Client representative</b> (when applica-<br>ble) |
|                              | <b>Client signature</b> (when applicable)           |

7.5 Appendix 5 – Site plan indicating where the Invasive Plant Species is located



## 8 VALIDATION REPORT

This section is populated when the works are complete.