

PARKHILL AVENUE JAPANESE KNOTWEED MANAGEMENT PLAN

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Client: Great Places Housing Group



INCREASING LAND VALUE

DOCUMENT VERIFICATION

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1 OVERVIEW

1.1 Project Description:

The LK Group was asked to provide a survey, management plan and method statement for Japanese Knotweed (JK) within the site of the proposed new development at Parkhill Avenue, Manchester.

1.2 Invasive Species

1.2.1 Site Visit

The site was surveyed in 2021 and January 2024. The LK Group have been treating the Japanese Knotweed at the site since 2015.

The Japanese Knotweed is located in eight areas within the blue area, see Figure 1 below:



Figure 1: Refer to Appendix showing full site plan

1.2.2 Japanese Knotweed:

The recommended management plan is to undertake a “controlled excavation” of the material within the development area followed by removal to licensed landfill.

Following removal of the Japanese Knotweed and as the Japanese Knotweed exists on the site boundary in several areas, we will install a geo-textile root barrier to prevent future re-infestation from outside of the site.

Following the works, we will implement a herbicide monitoring and treatment programme to treat any boundary re-growth.

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 Japanese Knotweed.
- Transfer of JK impacted soils to licensed landfill by 8-wheel wagon.
- Installation of geo-textile root barrier membrane.
- Final tidy and completion.
- Ongoing herbicide monitoring and treatment programme.

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 & 8 wheel wagon) and will include:

- The areas contaminated with JK
- 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 soils are then loaded onto 8-wheel wagon prior to disposal at licensed landfill.
- 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 wagon, 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 boundaries where necessary to prevent future re-infestation from outside of the site.
- The edges of the excavations shall be battered back to a safe angle (approximately 30°), to ensure safe working conditions for the site operatives.

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
- At least 2 years monitoring following completion of the development.

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 Japanese Knotweed problem.

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

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.*

7 COSTS AND PROGRAMME

Costs and Terms:

The following costs are for the areas of Japanese Knotweed as identified above within the above proposal;

- | | |
|--|---|
| • Dig and Dump | £ |
| • Root barrier membrane | £ |
| • Herbicide Spraying and Monitoring Programme (8 visits) | £ |

Total	£
-------	---

Target Programme:

IPC confirm that the works can be completed on site within a 3- week period however this period is subject to the weather and resultant site conditions.

We understand that the programme of construction works will be between ... and ... where the development will complete.

7.1 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
.....		
.....		
.....		
.....		
.....		
.....		
.....		
.....		

8 APPENDICES

8.1 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 providedYes/No
- Has a visual inspection of the dig area been carried outYes/No
- Has a Cable Locating Device (CAT) been used to sweep the area to establish under-ground servicesYes/No
- Are all operatives conversant with safe digging practices?Yes/No
- Are appropriate tools availableYes/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 proceedYes/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:**.....

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

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

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

8.3 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

Job No:	Address:	Client:
Date started:	Foreman:	

Date	Time Started	Persons Present	Notes	Time Finished

8.4 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

Site:	Client:	Date:
Job No:	Visit No:	Time on site:
Operatives Names:		Time off site:

Area No	Est % or m ² live	Details	Photo No

Herbicide used	Rate ml/litre	No of (L) mix used	Total Chem	Wind	Weather

Operatives Signature:	Client representative (when applica- ble)
	Client signature (when applicable)

8.5 Appendix 5 – Site plan indicating where the Japanese Knotweed is located

9 VALIDATION REPORT

This section is populated when the works are complete.