



## Improvement Plan for Great Crested Newts Westfield Common 1<sup>st</sup> Year Review

Date: November 2017

Submitted to:

Woking Borough Council

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## Contents

<b>Non-Technical Summary .....</b>	<b>1</b>
<b>1 Introduction .....</b>	<b>2</b>
1.1 <i>Background Scope to the Project</i> .....	2
1.2 <i>Consultation</i> .....	2
1.3 <i>Publicity</i> .....	3
<b>2 First Year Update .....</b>	<b>4</b>
2.1 <i>Practical Works</i> .....	4
2.2 <i>Planning, Consents and Signage</i> .....	4
2.3 <i>Monitoring</i> .....	5
<b>3 Amendment to the Objectives.....</b>	<b>6</b>
3.1 <i>Other Wildlife</i> .....	7
<b>4 Updated Work Plan for Year Two.....</b>	<b>7</b>
<b>5 References.....</b>	<b>12</b>

## Appendices

**Appendix 1: Photos taken during Year One**

**Appendix 2: Plan of the Survey Results**

**Appendix 3: Survey Results 2017**

**Appendix 4: Risk Register**

**Appendix 5: NWC4 Creation of New Pond**

**Appendix 6: SWC5 pond 4**

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## Revision History

Revision	Date	Amendment
1	27.10.2017	First submission
2	23.11.2017	Updates based on client comments

## Non-Technical Summary

Woking Borough Council is involved in a pilot project with Natural England which is based on a landscape-wide approach to great crested newt mitigation. The project aim is to achieve the favourable conservation status of this species more strategically across the whole borough rather than by imposing 'piecemeal' mitigation strategies at numerous localised sites.

The first year of the Westfield Improvement Plan has been completed. In accordance with the Plan all the practical works were completed. Monitoring of the ponds identified a small population of great crested newts breeding both in the north and the south of Westfield Common which is consistent with previous data collected in 2016. However the surveys in 2017 identified more ponds in the north as breeding ponds for great crested newts.

The monitoring of the ponds on Westfield Common also identified that many had dried out by June 2017, although within 2017 being a dry year this is not conclusive as to the seasonality of the ponds and will need to be monitored in future years.

The ponds which were desilted have shown a good recovery in terms of the regeneration of marginal vegetation creating a more diverse range of amphibian foraging habitat within woodland complex. The amounts of dead wood has also increased substantially with improved connectivity features between ponds.

Planning has also now been obtained for the creation of new ponds on site and relationships built with adjoining landowners who also own suitable land and ponds with great crested newts providing potential opportunities for future habitat works beyond the boundary of Westfield Common.

Year Two works will see a focus on the pond habitats, deepening ponds and constructing new ponds. Works are also required in establishing the targets to be set in order to establish favourable conservation status for great crested newts on Westfield Common and the wider borough.

# 1 Introduction

The first year of the Westfield Common Improvement Plan has been completed. This report summarises the findings and works completed to date with updates of any amendments considered appropriate for works in Year Two.

## 1.1 Background Scope to the Project

The purpose of the project is to fulfil the requirements of the pilot scheme for the new, landscape-wide approach to great crested newt mitigation in Woking. The Westfield Common Improvement Plan was written by ADAS in 2016 to realise the following elements:

- *Enhancement and creation of ponds;*
- *Enhancement of habitat connectivity with the wider metapopulation of great crested newts within the borough;*
- *A monitoring strategy to assess great crested newt population sizes and habitat quality at Westfield Common; and*
- *Consideration of a monitoring strategy to assess the scale of loss of known 'great crested newt zones' to development and general population trends within the borough.*

In addition to the above elements, which are specifically included to be of benefit to great crested newts, the Improvement Plan has considered the following wider issues relating to Westfield Common:

- *Benefits to other notable flora and fauna which occur or may occur at the Common; and,*
- *Management of invasive plants which are known to occur at the Common.*

The Improvement Plan is designed to add to the current existing Management Plan produced by Surrey Wildlife Trust (Surrey Wildlife Trust, 2014 and updated in 2017)<sup>1</sup>. The 2014 Management Plan identified five features associated with Westfield Common, which are: woodland, pond and ditches, grassland, community and monitoring. This Improvement Plan in effect adds a sixth feature: great crested newts. Therefore there will be some degree of overlap between the existing Management Plan and the Improvement Plan.

## 1.2 Consultation

In the first year of the project a range of organisation were consulted along the process of the works. These included the following:

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<https://www.woking.gov.uk/leisure/greenspaces/countryside/greenprojects/westfieldcommonmanagement/westfieldcommonreview>

- *Woking Borough Council;*
- *Woking Councillors;*
- *Natural England;*
- *Surrey Wildlife Trust;*
- *Forestry Commission;*
- *Amphibian and Reptile Conservation (ARC);*
- *Surrey Amphibian Reptile Group (SARG);*
- *Residents associations, Friends of Westfield Common volunteers,;*
- *SERCO; and*
- *British Horse Society.*

Key consultation events in the first year included:

- *25<sup>th</sup> October 2016 – Inception meeting;*
- *8<sup>th</sup> November 2016 – Improvement plan sent for consultation;*
- *5<sup>th</sup> December 2016 – Community Meeting held at Moorcroft Community Centre;*
- *31<sup>st</sup> August 2017 – Woking Borough Council and Westfield Common Residents regarding planning (on site);*
- *1<sup>st</sup> September 2017 – Planning application submitted for new ponds on Westfield Common; and*
- *18<sup>th</sup> October 2017 – Planning permission granted for new ponds on Westfield Common;*
- *19<sup>th</sup> October 2017 – Stakeholders’ Review meeting on the completion of year 1 and a look forward to Year 2.*

### 1.3 Publicity

During the course of the delivery of works there have been a series of publicity events which included:

- *7<sup>th</sup> February 2017 – pilot referenced in the Housing White Paper ‘Fixing our broken housing market’*
- *16<sup>th</sup> February 2017 - Andrew Sells, Chairman, Natural England and Councillor Beryl Hunwicks, WBC;*
- *2<sup>nd</sup> March 2017 – Article published (by Martin Hilditch) in Inside Housing – ‘Have I got Newts for you’;*
- *7<sup>th</sup> March 2017 – Interview with Eagle 3 radio;*
- *23<sup>rd</sup> June 2017 – Woking Developers and Agents Forum; and*
- *7<sup>th</sup> July 2017 – How we did it: Piloting a newt licencing strategy (by John Geoghegan), Planning Resource.*

## 2 First Year Update

### 2.1 Practical Works

Based on the Year 1 plan all the practical works were completed as prescribed. In summary these works have included the following (relevant prescription numbers from the Improvement Plan are noted in brackets), photos are presented in Appendix 1:

#### North of Westfield Common:

- *Opening up Pond 11a, desilting and clearing rubbish (NWC1), (Photo 1);*
- *Further coppicing, pollarding and laying willows around Pond 11 (NWC2); and*
- *Remove willows and dead hedging around Pond 12 (NWC3), (Photos 2 to 4).*

#### South of Westfield Common:

- *Remove oak and dead hedge around Pond 8 (SWC1);*
- *Remove willows along eastern edge of Pond 7 (SWC2);*
- *Fell trees, dead hedge and desilt Pond 2 (SWC3), (Photos 5 to 7);*
- *Fell trees, dead hedge and desilt Pond 3 (SWC4), (Photos 8 to 10);*
- *Fell tree, dead hedge and desilt Pond 4 (SWC5); and*
- *Create a dead hedge linking Ponds 2 and 3 (SWC6), (Photo 11).*

As a result of the works there was an increased area of surface water and dead wood habitat. However some of the ponds had almost dried out by mid June, although it is noted that it has been a dry year. Ponds that supported great crested newts which dried out by June included Ponds 2, 11a and 14 (Appendix 3 – identifies pond numbers). Pond 1 also dried out and was likely to have supported great crested newts.

### 2.2 Planning, Consents and Signage

All prescriptions relating to works across Westfield Common were completed:

- *Obtain a felling licence (AWC1) – this was obtained and the commencement of the project by the contractor from the Forestry Commission (licence number 019/389/16-17), which is valid until 23rd November 2021;*
- *Planning application (AWC2) was submitted in September 2017 and planning obtained from the construction of the new ponds in October 2017 – Planning reference PLAN/2017/1017. One change was made in relation to the planning application which was the removal for the construction of Pond CWC1 noted within the Plan in Appendix 5 of the Westfield Common*

*Improvement Plan. This pond was removed as an existing silted up pond was identified by the local Westfield residents that was more appropriate to be restored - NGR TQ00535 56164;*

- *Trial holes to test for contaminants (AWC3) were checked for in accordance to the pointer poster carried on site. No contaminants were recorded during the desilting works; and*
- *Access and signage (AWC4) was erected prior and during works.*

## 2.3 Monitoring

A series of ponds were identified which covered Westfield Common and the wider area. Data for these ponds was collected in relation to Habitat Suitability Index (HSI) (MWC1), presence/absence of great crested newts, evidence of breeding and population counts were undertaken on 18<sup>th</sup> April 2017 and 18<sup>th</sup> May 2017 (MWC2). In brief the results identified the following:

### North of Westfield Common

Ponds 11, 11a, 12 and ditch (14) were all recorded with great crested newt eggs. The eggs were recorded on a range of material which included egg strips (deployed in Ponds 11 and 12), float grass (*Glyceria fluitans*) and willow (*Salix* sp.). Of note two female great crested newts were recorded laying eggs on willow leaves in Pond 12 (photo 12 – Appendix 1). The highest count was three great crested newts in Pond 12 recorded on 18<sup>th</sup> May 2017. The results of the survey are shown on the plan in Appendix 2 and table in Appendix 3.

### South of Westfield Common

Pond 2 had great crested newt eggs found on 18<sup>th</sup> April 2017 laid on an egg strip. To the west of Westfield Common two ponds (Ponds 21 and 22) located within the premises of a private residence recorded egg laying on canary reed canary grass (*Phalaris arundinacea*) (Photo 13 – Appendix 1). On 18<sup>th</sup> May 2017 six female great crested newts were recorded within Pond 22.

The ponds across adjacent Sutton Green golf course were in general found to be sub-optimal supporting fish, with a common occurrence of the invasive species New Zealand pygmy weed (*Crassula helmsii*) and water fern (*Azolla filiculoides*). However an area of wet woodland which contained a large expanse of water was recorded to the north of the golf course which has the potential to support breeding great crested newts, although none were recorded during the survey.

Three ponds were assessed using eDNA with samples taken on 18<sup>th</sup> May 2017 of Ponds 3, 4a and 7. The results of the eDNA survey identified that all the ponds were negative for the presence of great crested newts.

Four ponds were not surveyed on the visits on 18<sup>th</sup> April 2017 and 18<sup>th</sup> May 2017, which included ponds 1, 15, 16 and 25. Pond 1 was a missed opportunity as this is located within the common which provides public access and it is very likely that this pond supports great crested newts. Pond 15 was visited by

Robert Shatwell (local volunteer) on 23<sup>rd</sup> May 2017 and was reported to be overgrown with a canopy of scrub and the surface of the water had a layer of scum. During the visit of Pond 15 no GCN were recoded although a few emergent plants were observed.

### **Wider Westfield Common**

A number of prescriptions were not completed that included MWC3 Establish key variables (range), MWC4 Habitat monitoring methodology (terrestrial) and MWC6 Landscape model and decision making tool. These were discussed in brief at the end of year meeting held on 19<sup>th</sup> October 2017. These prescription relate to Objective Two of the Improvement Plan and aids in the identification of setting the targets for the conservation status of great crested newts on Westfield Common and the wider Woking Borough.

One prescription (MWC5) risk register was started but not completed which provides information with dealing with future prospects under the favourable conservation status monitoring of great crested newts. Further works are required to assess this issue, which has partly been addressed within this summary report and presented in Appendix 4.

### **Great crested newt zones**

Two prescriptions relating to the wider zones MGZ1 Great crested newt zones and MGZ3 Legal and future framework were not completed. However prescription MGZ1 is mostly covered by the Natural England (Appendix 10) report (Woking Borough Council, 2016). A third prescription, MGZ3, Liaison with other landowners had commenced during the year with communications made with landowners which provided access to a range of ponds and potential for future works.

## **3 Amendment to the Objectives**

Based on the works in the first year of the Improvement Plan the objectives have been reviewed in terms of if they can be met. Objective 1 sets out a practical solution to the distribution and type of habitats that will support great crested newts across Westfield Common. The one change to the objective which is currently unacheivable is the size of the ponds. In the Wetsfield Common Improvement Plan it states:

- *Ponds in each cluster will include at least one pond of 400m<sup>2</sup>, with no ponds smaller than 200m<sup>2</sup>.*

The ponds across Westfield Common are typically quite small associated with natural hollows within the local topography of Westfield Common. Realistically ponds will range from 50m<sup>2</sup> up to 400m<sup>2</sup>. This size range of ponds identified within the planning permission will provide additional waterbodies between 50m<sup>2</sup> and 175m<sup>2</sup>.

The second objective considers how the project will achieve a favourable conservation status for great crested newts. This would be measured according to four separate parameters: range, population, habitat

for the species and future prospects. At the meeting held on 19<sup>th</sup> October 2017 it was identified that the parameters to meet this objective have not been defined within the first year of the project to allow for a target to be set against each of the parameters. In addition it was noted that works towards achieving favourable conservation status is being developed with the GCN project piloted in Kent.

The second year of the Improvement Plan therefore requires a greater understanding of the targets required in order that the favourable conservation status can be measured. However, it is noted that the first year of the project has provided a greater understanding of what is potentially achievable in the project and will contribute to achieving the relevant targets.

### 3.1 Other Wildlife

Part of the objectives was also to consider that the benefits to other wildlife as a result of the works. Due to the opening of the water bodies there have been some instant noticeable improvements that will be benefiting a range of other wildlife. This includes the potential benefit to other amphibians that are present onsite which includes smooth newt (*Triturus vulgaris*), palmate newt (*Lissotriton helveticus*), common frog (*Rana temporaria*) and common toad (*Bufo bufo*). During the survey visits a white admiral butterfly (*Limenitis Camilla*) was recorded, which is likely to benefit from increased glade creation. The desilting of the ponds has also increased the amount and range of plant species found in damp conditions where the seeds have remained dormant in the silt; plants have included soft rush (*Juncus effuses*), tormentil (*Potentilla erecta*), lesser spearwort (*Ranunculus flammula*) and water-purslane (*Lythrum portula*). Of note water-purslane has been in recent national decline due to pond neglect.

## 4 Updated Work Plan for Year Two

Moving forward into the works required in Year Two and based on the end of year meeting held on the 19<sup>th</sup> October 2017 the following table provides works for 17/18. Information is provided where there is a change to the original work plan detailed in the Improvement Plan.

**Table 1: 2017/2018 Works**

Prescription number	Works required	Year 1 Timing	Responsible for implementation
NWC4 Creation of a new pond.	A new pond to be created in accordance with the design as permitted under the planning permission (Appendix 5)	December 2017 – February 2018	ADAS
NWC5 Extend the dead hedge corridor.	This will occur as a result of the pond creation works	December – February 2018	ADAS
NWC6 Coppice around Pond SW11 and newly created pond.	A continuation of works as detailed under the Surrey Wildlife Trust Management Plan	November – February 2018	Surrey Wildlife Trust (SWT)
Additional works	Remove rubbish from Pond 12.	December – February 2018	ADAS
Additional works	Dig out an additional section of Pond 11a to deepen it by 1m going out to 3m by 6m at its western end.	December – February 2018	ADAS
SWC3 Desilt the second half of SWC2	<p>These works have slightly changed to focus on the southern half of the pond so that works will include: Dig out Pond SWC3 deeper by another 1m by 8m by 10m approx. Clear back willows on eastern edge. Deposit top layer of silt on western bank to encourage plant to grow. Sediment/sand under this to be deposited on southern end and shaped to create pond.</p> <p>Note Japanese knotweed is located to south of the pond with the bramble.</p>	December – February 2018	ADAS

Prescription number	Works required	Year 1 Timing	Responsible for implementation
SWC5 Widen Pond SW4	To extend the pond to the east in accordance with the approved planning design (Appendix 6), the pond is also proposed to be clay lined due to the observation of ponds drying out and its proximity to ponds located to the west which support great crested newts.  It appears that there is lots of rubbish which will require bagging and being taken away by SERCO.	December – February 2018	ADAS and SERCO
SWC6 Dead hedge and glade creation	Dead hedge and glade creation, this is considered not to be required and dead hedging will occur due to the continued works to the southern ponds.	December – February 2018	ADAS
Additional item	Undertake additional desilting of pond 2 to an additional depth of up to 0.5m	December – February 2018	ADAS
Additional item	Prepare a plan for the restoration off Moor Lane, which is to replace the construction of a new pond CWC1. Once designed to be assigned for works in a future year of the work programme.	March – April 2018	ADAS
AWC4 Utilise oak onsite for access furniture and wildlife features	This part of the project does not directly impact on the great crested newt project and therefore is to be delivered as a seperate project.	March – September 2018	Woking Borough Council (WBC) and SWT
MWC1 HSI assessments of all waterbodies within the Common.	Undertake an HSI assessment of the ponds on the common SW1 to SW13. Certain ponds are not under WBC ownership (SW1 and SW9). Confirmation of access to these ponds will be required from WBC. Works to be undertaken in accordance with SWT volunteers.	March – April 2018	ADAS, SWT and WBC

Prescription number	Works required	Year 1 Timing	Responsible for implementation
MWC2 Great crested newt breeding and occupied pond.	Population class estimates will be undertaken using two separate visits using torch light surveys and egg searches only. Bottle trapping and netting not used for bio-security and due to public access to the ponds.  As part of the visits a consideration will be to assess further for the presence of fish in Ponds 7 and 8 off Moor Lane to assess if they could potentially provide great crested newt breeding habitat.	Mid-March – mid June 2018	ADAS and SWT
MWC3 Establish the key variables.	Working with stakeholder groups to define the range of key variables.  The range of attributes to be based on knowledge gained in the first year of the project and aerial data.	April – October 2018	ADAS, WBC, Natural England, ARC and SARG
MWC4 Habitat monitoring methodology (not required)	Create a robust methodology for assessing the terrestrial habitat.  This is no longer considered to be necessary as part of the evidence required to be collected in order to aid in determining the targets for the site.	April – September 2018	
MWC5 Risk Register.	Create a risk register for Westfield Common and the wider borough. This will be produced in a tabulated format.  To be developed over the course of the second year and reviewed by stakeholders.	January – October 2018	ADAS
MWC6 Landscape model and decision making tool	Works to bring the variables and ground truthing data together to produce a first practical and robust model/map that can be used to direct decisions.  To be undertaken in conjunction with other pilot great crested newt projects.	April – October 2018	ADAS, WBC, NE, ARC and SARG
MGZ1 Great crested newt zones.	Make an assessment of the borough in relation to GCN to assess the ongoing strategy within Woking Borough. Work with stakeholders to establish the mechanism to assess loss against net contribution.	In-progress	WBC

Prescription number	Works required	Year 1 Timing	Responsible for implementation
MGZ2 Legal and future funding framework	Establish the legal framework and consider funding mechanisms to establish the programme of future connectivity work to areas of the Common not owned by WBC and beyond the boundaries of Westfield Common	April – October 2018	WBC
MGZ3 Liaison with other landowners of the Common.	Parts of the common are not owned by the WBC that include ponds SW1 and SW9. Continued liaison to establish potential working relationships for future works to be undertaken.	April – October 2018	WBC
Completion report for Year 1	Undertake a review of Year Two and present a report to include the findings of all the survey work. This data to be used to update the Improvement Plan and to assess Year Three of the Work Plan.	October 2018	ADAS

## 5 References

**ADAS (2016)** Westfield Common Improvement Plan

**Surrey Wildlife Trust (2014)** *Westfield Common Ecological Management Plan – there is a 2017 review document which can be found at*

*<https://www.woking.gov.uk/leisure/greenspaces/countryside/greenprojects/westfieldcommonmanagement/westfieldcommonreview>.*

**Woking Borough Council (2016)** Natural Woking Supporting Information – Appendix 10 - *Great Crested Newt*.

## Appendix 1: Photos taken during Year One



Photograph 1. Pond 11a taken in August 2017 showing a spread of float grass but also recorded as drying out in June.



Photograph 2. Pond 12 taken in October 2016.



Photograph 3. Pond 12 taken in February 2017.



Photograph 4. Pond 12 taken in September 2017.



Photograph 5. Pond 3 taken in October 2016.



Photograph 6. Pond 3 taken in May 2017



Photograph 7. Pond 12 taken in August 2017, pond dried out by June except for a small puddle.



Photograph 8. Pond 3 taken in October 2016.



Photograph 9. Pond 3 taken in May 2017.



Photograph 10. Pond 12 taken in August 2017, pond dried out by June 2017 except for a small puddle.



Photograph 11. Dead hedge constructed between Ponds 2 and 3.



Photograph 12. Female great crested newt recorded laying eggs on willow leaves in Pond 12.



Photograph 13. Great crested netw eggs recorded in Pond 22

# Appendix 2: Plan of the Survey Results

See following page.



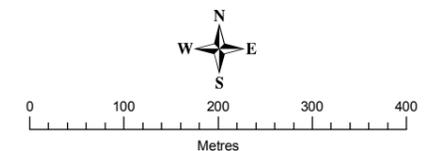
# Woking Borough

## Westfield Common and Surrounding Area

### Great Crested Newt Survey 2017 results

- Access - no survey
- No access
- Surveyed - pond dry
- Surveyed - No GCN
- Surveyed - GCN present
- Palmate Newt present
- Smooth Newt present

Drawn by Paul Taylor 27/10/2017, Verified by James Simpson 27/10/2017

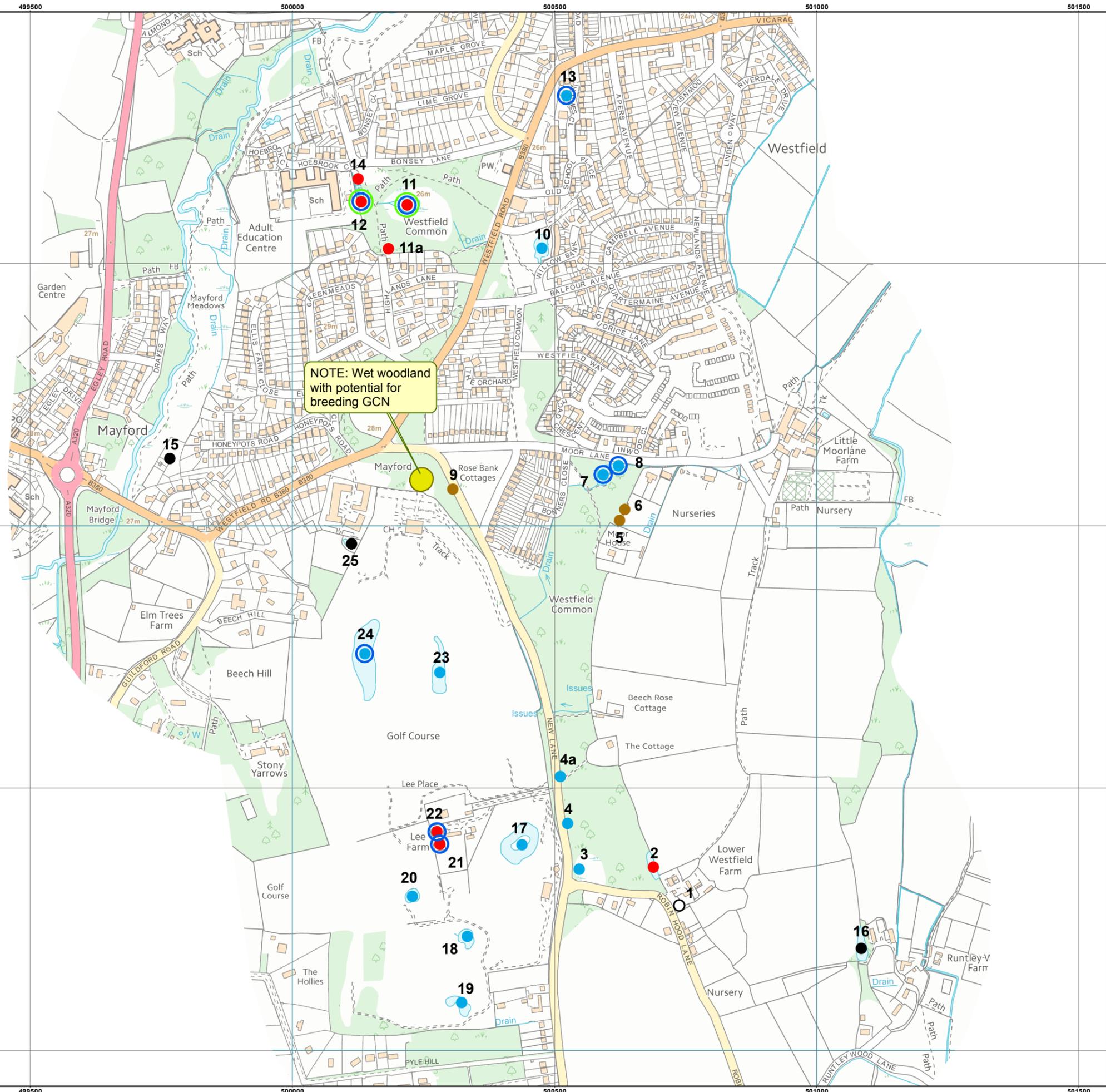


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## Appendix 3: Survey Results 2017

Habitat suitability Index (HSI) scores for ponds on Westfield Common

Pond	HSI Score	Pond suitability	Notes
1	0.63	Average	Parrots feather present, located at the back of a garden
2	0.72	Good	A large pond devoid of marginal vegetation
3	0.76	Good	A pond split in two and devoid of marginal vegetation
4	0.43	Poor	A very small pond next to the road
4a	0.56	Below Average	A small pond adjacent to track and road, float grass present
5			Dry
6			Dry
7	0.77	Good	Pond off Moor Lane, contains locally rare bladder sedge
8	0.67	Average	Pond off Moor lane and connected to pond 7
9			Dry
10	0.31	Poor	Fish, water fowl and <i>crassula</i>
11	0.86	Excellent	Large pond in centre of northern wood
11a	0.58	Average	A thin pond with float grass located at the back of houses
12	0.73	Good	A smallish pond understood to be clay lined
13	0.73	Good	A pond in a residential area
14	0.41	Poor	Part of a ditch, float grass present

Scores:

<0.5 = Poor

0.5 – 0.59 = Below average

0.6 – 0.69 = Average

0.7 – 0.79 = Good

>0.8 = Excellent

Survey results across all ponds visited on 18<sup>th</sup> April and 18<sup>th</sup> May 2017

Pond reference	Torch Survey Results			Torch Survey Results		
	18th April 2017			18th May 2017		
	Great Crested Newt	Smooth Newt	Palmate Newt	Great Crested Newt	Smooth Newt	Palmate Newt
1						
2	eggs on egg strip	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
4a	0	0	0	0	0	0
5	Dry			Dry		
6	Dry			Dry		
7	0	1 female	0	0	0	0
8	0	1 female	0	0	0	0
9						
10						
11	eggs on egg strip	1 female	1 female	0	6 male, 6 female	0
11a	eggs on float grass	0	0	0	0	0

12	1 male plus eggs on egg strip	3 male, 2 female	1 female	1 male, 2 female. Females recorded laying eggs on willow.	14 female	
13	0	14 male, 2 female	0			
14	eggs on float grass	0	0	0	0	0
15	No access					
16	No access					
17	0	0	0			
18	0	0	0			
19	0	0	0			
20	0	0	0			
21				Eggs on reed canary grass	7 male, 7 female	0
22				six female plus eggs	0	0
23				0	0	0
24	0	1 female	0			
25	No access					

Note blank spaces denote no survey

## Appendix 4: Risk Register

	Risk/factors	Likelihood	Impact	Risk	Mitigation	Residual risk	Direction of risk
1	<b>Legislation/community</b>						
2	Registered common and planning permissions	High	Medium	High	Obtain planning permission 18 <sup>th</sup> October 2017	Low	down
3	Land ownership (being able to extend project to private land ownership)	High	Medium	High	Work with local residents/promote project	Low	down
4	Community support (practical/general)	High	High	Critical	Promote and engage with local community	Low	level
5	Lack of financial investment	Medium	High	High	Ensure scheme can invest longterm	Medium	level
6	Change in legal protection	Medium	Medium	Medium	Species likely to continue to be protected under national legislation		unknown
7	Wider scale monitoring	Low	Medium	Low	Continue to work with local groups to monitor species	Low	level
	<b>Disease/invasives</b>						
8	Chytridiomycosis (based on current knowledge)	Low	High	Medium	Assess the national trends of disease spread	Low	unknown
9	Disruption caused by dogs/ spread of disease	High	Medium	High	Reduce pond access to dogs	Low	down
10	Invasive plant species	High	Medium	High	Manage work programmes to avoid spread. Work in accordance with guidance including WBC invasive species advice for contractors. <sup>2</sup>	Low	down
11	Invasive animal species	Low	Low	Low	Monitor for invasive species	Low	level

<sup>2</sup> Woking Borough council (2016) Contractor maintenance species awareness guide

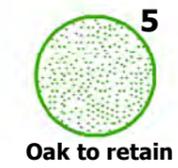
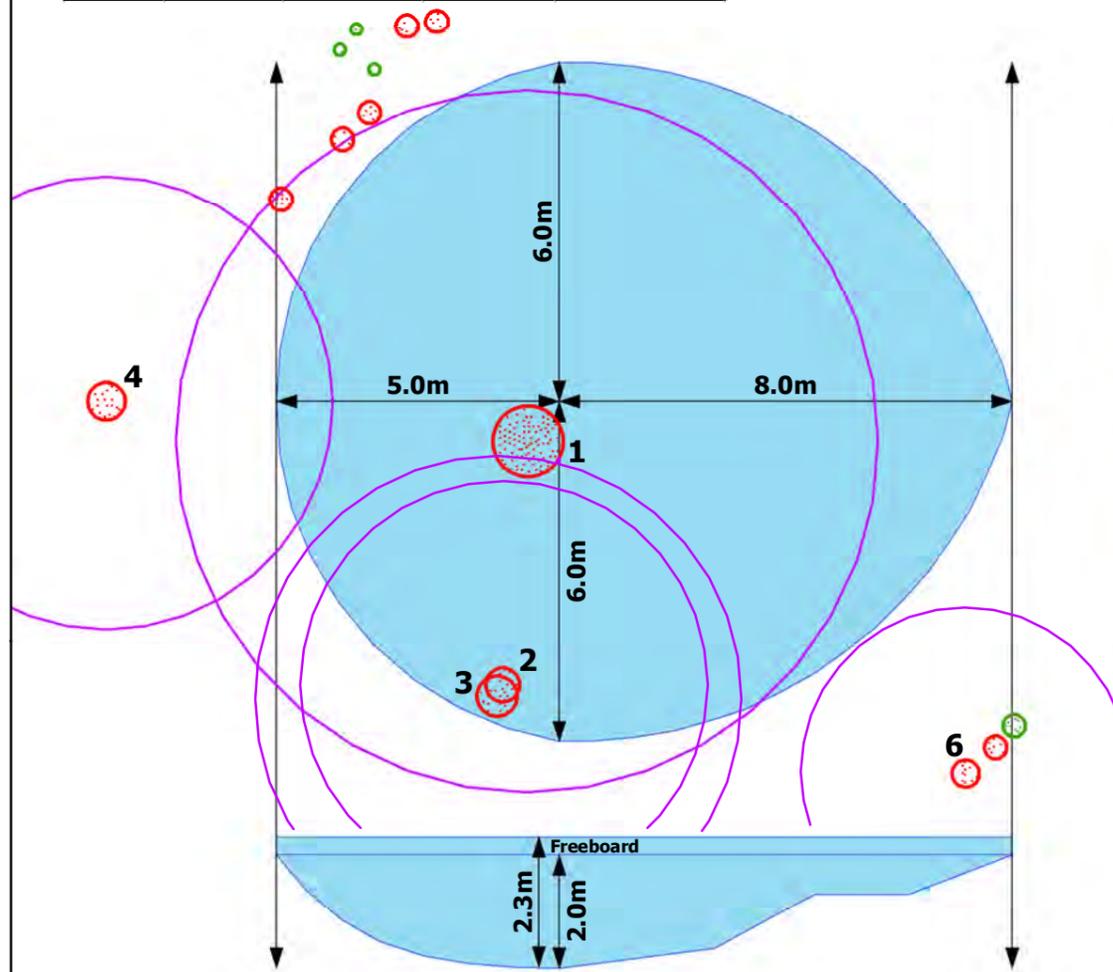
12	Vandalism and other anthropogenic disturbance	High	Medium	High	Regularly keep site clean/work with local community	Low	level
13	Fish	Medium	High	High	Monitor for fish presence	Medium	level
	<b>Habitat to Westfield Common</b>						
14	Delivery of management plan/neglect	Medium	High	High	Annually review and amend as required	Low	down
15	Insufficient suitable waterbodies	High	High	Critical	Construct/restore ponds	Low	down
16	Ponds drying out early	High	Medium	High	Amend management as required	Low	down
17	pond quality degradation	High	Medium	High	Bring pond and surrounding habitat under management	Low	down
18	Quality of terrestrial habitat	High	Medium	High	Create new dead wood and foraging habitat	Low	down
	<b>Wider borough</b>						
19	Climate change	Medium	Medium	High	No mitigation measures	Medium	level
20	Changes to or degradation of ponds under private ownership	Medium	Medium	Medium	Work with private landowners in the longterm safeguarding of important ponds	Low	unknown
21	Fragmentation of habitat	Medium	High	High	Ensure planning process considers green infrastructure. WBC adopted Development Management Policies document in October 2016 which sets out clear green infrastructure policies and cross references to the Borough's Natural Woking strategy. <sup>3</sup>	Low	down
22	Migration routes	Medium	High	High	Assess a strategic approach to GCN habitat management	Low	down
23	Hydrology in general,	Medium	Medium	Medium	Assess pond levels annually & adjust management accordingly	Low	up
24	Flood	Low	High	Medium	No mitigation measures	Medium	level

<sup>3</sup> <http://www.woking2027.info/developmentplan/management>

## Appendix 5: NWC4 Creation of New Pond

See following page

Trees to be impacted by works				
Number	Species	DBH (m)	RPA (m)	Height (m)
1	Willow Sp.	0.62	6.2	14
2	Aspen	0.3	3.6	17
3	Aspen	0.355	4.3	17
4	Willow	0.33	4	14
5	Oak	1.05	12.6	18
6	Willow	0.24	2.9	0



Site photograph pre commencement of works

# Woking Borough

## Westfield Common

### NWC4 Pond Design

- Pond to be created
- Trees**
- Retain
- Remove
- Root protection zone

### Location Plan Scale 1:20,000



#### Notes:

- Pond capacity**
- Approximate area of pond at full capacity is 117m<sup>2</sup>.
- Central grid reference - 500305, 156630.

#### Pre-commencement

- All works to comply with felling licence 019/389/16-17 (expires 23 Nov 2021).
- A 'pointer poster' to be in-situ to highlight the issues relating to potential contamination.
- Erect a sign detailing the works for the general public.
- Ensure large mature oak to the east is clearly marked off to protect RPA.

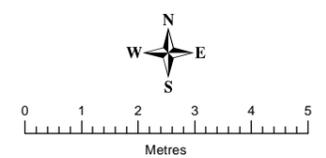
#### During works

- Dig a trial hole first to inspect for any contaminants (any found inform Woking's Scientific Officer)
- All tussocks of *Molinia coerulea* to be transplanted in the surrounding woodland.
- Excavated soils to be spread to the west and north of the pond – using natural fluctuations in the ground.
- All cut material to be stacked on top of spread material adjacent to pond.
- All machinery to be washed down before being taken off site.

#### Planting

- Plant or transplant marginal aquatic plants to include *Glyceria fluitans*, *Mentha aquatic*, *Iris pseudacorus*, *Myosotis scorpioides* and *Rorippa nasturtium-aquaticum*.

Drawn by Andy Frost 04/08/2017, Verified by James Simpson 04/08/2017



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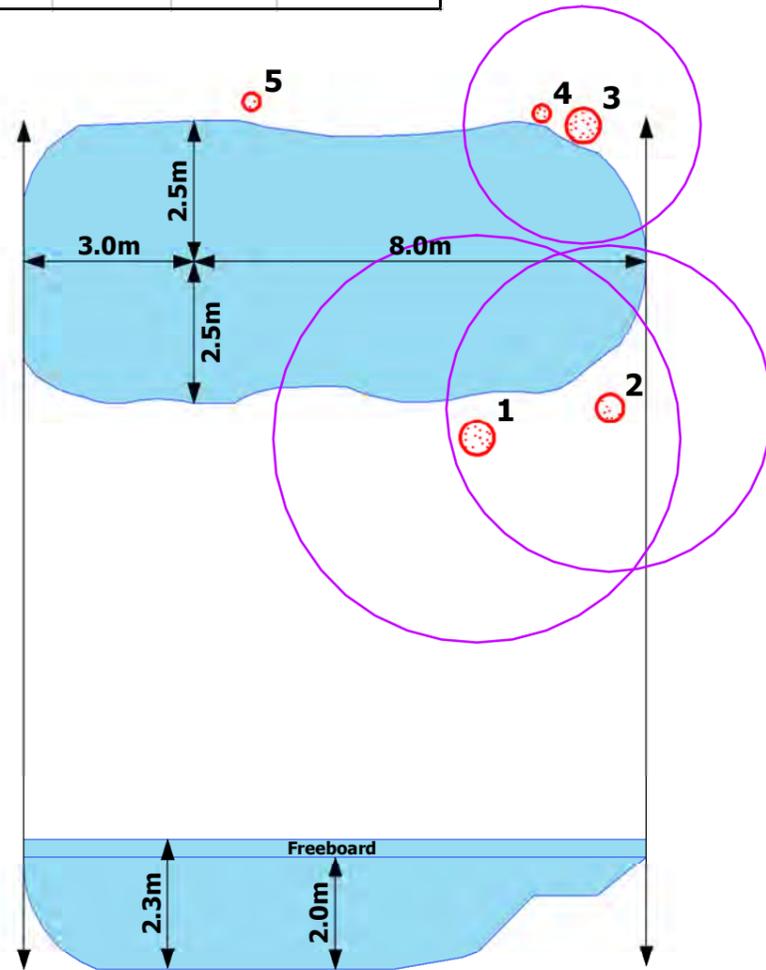


## Appendix 6: SWC5 pond 4

See following page

**Trees to be impacted by works**

Number	Species	DBH (m)	RPA (m)	Height (m)
1	Oak	0.3	3.6	14
2	Oak	0.24	2.88	14
3	Oak	0.175	2.1	14
4	Birch			
5	Birch			



Site photographs pre commencement of works



# Woking Borough

## Westfield Common

### SWC5 Pond Design

- Pond to be created
- Trees**
- Retain
- Remove
- Root protection zone

Location Plan Scale 1:20,000



**Notes:**

**Pond Capacity**

- Approximate area of pond at full capacity is 49m<sup>2</sup>
- Central grid reference - 500532, 155405

**Pre-commencement**

- All works to comply with felling licence 019/389/16-17 (expires 23/11/2021).
- A 'pointer poster' to be in-situ to highlight the issues relating to potential contamination.
- Erect a sign detailing the works for the general public.

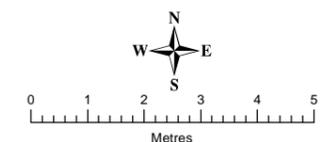
**During works**

- Dig a trial hole first to inspect for any contaminants (any found inform Woking's Scientific Officer)
- Excavated soils to be spread to north and south of the pond.
- All cut material to be stacked on top of spread material adjacent to pond.
- All machinery to be washed down before being taken off site.

**Planting**

- Plant or transplant marginal aquatic plants to include *Glyceria fluitans*, *Mentha aquatic*, *Iris pseudacorus*, *Myosotis scorpioides* and *Rorippa nasturtium-aquaticum*.

Drawn by Andy Frost 02/08/2017, Verified by James Simpson 02/08/2017



Scale 1:125 at A3 size

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