

Wylfa Newydd Project

6.4.55 ES Volume D - WNDA Development

**App D9-22 - Great Crested Newt Technical
Summary Report 2017**

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Application Reference Number: 6.4.55

June 2018

Revision 1.0

Regulation Number: 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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Great Crested Newt survey at ponds



Project Title: **Wylfa Newydd: Early Works and Site Preparation & Clearance Works**

Document Number: **WNSPC-JBB-ECOL-PJW-GEN-REP-002**

Customer: **Horizon Nuclear Power Wylfa Ltd**

Purpose of Issue: **Issued for comment**

Date of Issue: **05 July 2017**

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 1 of 8
Project Lead:	Reviewed by:	Next Review Date:	

Project Name:	Wylfa Newydd: Early Works and Site Preparation & Clearance Works	Project No:	
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Issue Record			
Rev	Purpose	Date	By
-	Issue for Comment	05.07.2017	SMB

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Date:		Revision No:	

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Issued To (Electronic Copies)	Revision	Date

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1 Introduction**2 Findings from population survey****3 Correlation with eDNA testing****4 Conclusions****Appendices**

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1 Introduction

1.1 Description and Sequence of Work

Jones Brothers Balfour Beatty JV (JB) are providing support services to Horizon Nuclear Power (HNP) under a Professional Services Agreement, including a programme of survey works for Great Crested Newts, to establish their presence or absence in specific areas of the proposed Site Preparation and Clearance worksite.

‘The Work’ is a programme of professional services including surveys to determine the presence or absence of Great Crested Newt in any or all of 47 ponds identified within the site boundary. Reporting on this work to the Customer and Regulator. Preparation of an application for a European Protected Species licence if Great Crested Newts are found at any of the ponds.

On written instruction from HNP, the services commenced with the presentation of proposed survey strategy to Natural Resources Wales in a meeting, and formal recording of acceptance of the strategy.

The planned survey consisted of three stages:

1. Daylight walkover visit by Ecologist and assistant to inspect all 47 ponds to plan the survey work, in early April 2017
2.
 - A) Conduct eDNA sampling and testing at all 47 ponds plus one check pond in April 2017, and report findings. Assess the Habitat Suitability Index at each pond by field recording features on standard record sheet and transferring data to calculation spreadsheet in the office.
 - B) Conduct population survey at ponds 37 and one check pond, by bottle trapping / torch search / egg search commencing April 2017, and report findings.
3. If any ponds have positive laboratory result for GCN DNA, and it is deemed necessary, then conduct population survey at those ponds, by bottle trapping / torch search / egg search commencing late April 2017, and report findings.

The report reference WNSPC-JBB-ECOL-PJW-GEN-REP-001 dated 21/06/2017 reported the findings of stage 1 and stage 2A. The eDNA sampling and testing proved negative at all ponds sampled, and so stage 3 was suspended as not necessary.

This document records stage 2B – the population survey at pond 37 and two nearby ponds.

1.2 Method

The work was conducted in accordance with a specific Task Briefing Sheet forming part of Work Package Plan WNSPC-WPP-STG[-1]/ECOL/001 rev02:

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TBS Reference	Title
WNSPC-TBS-STG[-1]-ECOL-002	GCN Population Survey

Reporting this work follows Inspection & Test Plan No WNSPC-ITP-STG[-1]-ECOL-001.

1.3 Background

Survey work previously conducted for HNP had found one positive eDNA result for Great Crested Newt at pond 37, despite previous negative survey results and the absence of positive results from nearby locations. It was therefore agreed that 'traditional' surveying for GCN would be conducted at pond 37 and two nearby ponds regardless of the results of eDNA testing: a) to provide additional evidence to support (or possibly contradict) the finding from eDNA testing, and b) to avoid delay waiting for eDNA test results and thereby ensure that should it be necessary, a full population survey suite of six visits could be completed in the available season.

1.4 Locations

Pond 37 is located near the Lodge, to the south of the Magnox road, as shown in Figure 1. Ponds 18 and 28 are within a 500m radius of pond 37 and not separated by any physical barrier to GCN movement. Consequently a mobile sub-population of GCN might possibly use any one of these ponds in a particular season.

There are two small ponds at location 28, referred to as 28a and 28b in the Pond Condition survey report. The daylight walkover showed that Pond 28a was suitable only for egg searching, due to dense aquatic vegetation and marginal/overhanging vegetation. In the event it proved to be too overgrown for egg searching and was therefore excluded from subsequent visits. Pond 28b is a very small, shallow artificial garden pond at which only torch survey and egg search was practical.

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2 Findings from population survey

Six survey visits were conducted, on the dates shown in the table. The survey methods used at each pond are also tabulated.

No Great Crested Newts were found at any of the ponds surveyed, on any of the six visits. Individual smooth newt or palmate newt were found on some visits, as indicated in the table.

Wylfa Newydd Great Crested Newt Survey Results Summary

Waterbody number	Survey Method(s)	2017 Survey Dates					
		24 th April	2 nd May	8 th May	22 nd May	8 th June	14 th June
Pond 18 (Shallow pond on field edge)	Torching	NO GCN 1 ♀ 2 ♂PN	None	NO GCN 1 ♀PN, 1 eft	None	None	None
	Egg search	None	None	None	None	None	None
	Bottle Trapping	None	NO GCN 1 ♀PN	NO GCN 1 ♀SN, 1 ♂PN	NO GCN 1 ♀PN	None	None
Pond 28a (Overgrown garden pond)	Torching	Pond included on the first survey, but found to be overgrown by vegetation and inaccessible for survey					
	Egg search						
	Bottle Trapping						
Pond 28b (Tiny garden pond)	Torching	NO GCN 1 ♀PN	None	None	None	None	None
	Egg search	None	None	None	None	None	None
	Bottle Trapping	Pond too shallow to bottle trap					
Pond 37 (Pond in centre of field)	Torching	None	NO GCN 1 ♀ 1 ♂PN	None	None	None	None
	Egg search	None	None	None	None	None	None
	Bottle Trapping	None	None	NO GCN 1 ♀PN	None	None	None

KEY

GCN - Great crested newt; SN - Smooth newt; PN – Palmate newt; S/PN – Smooth or Palmate newt (undetermined); Juv – Juvenile; eft – eft; ♀ female; ♂ male

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3 Correlation with eDNA testing

The surveys support the finding of the eDNA tests from these ponds which were also negative.

The surveys also lend support to the reliability of negative eDNA tests at other ponds within the site which were sampled as reported in report reference WNSPC-JBB-ECOL-PJW-GEN-REP-001 dated 21/06/2017.

It had been intended to conduct eDNA testing at another pond, outside the Wylfa site, known to contain GCN as a means of validation for the eDNA procedures used within the Wylfa survey. In the event no such pond was found to be available for sampling. The same survey team were able to use eDNA test kits from the same source, and the same laboratory, to test ponds on another project in North Wales (being conducted by RML on behalf of Welsh Government). Positive results were obtained from a number of these ponds, and these results were borne out by population surveys using torch and other methods.

4 Conclusions

This survey demonstrates that ponds 37, 18 and 28 are not in use by Great Crested Newt and so it is not necessary to seek a licence under the Habitat Regulations before carrying out works at or in the vicinity of these ponds.

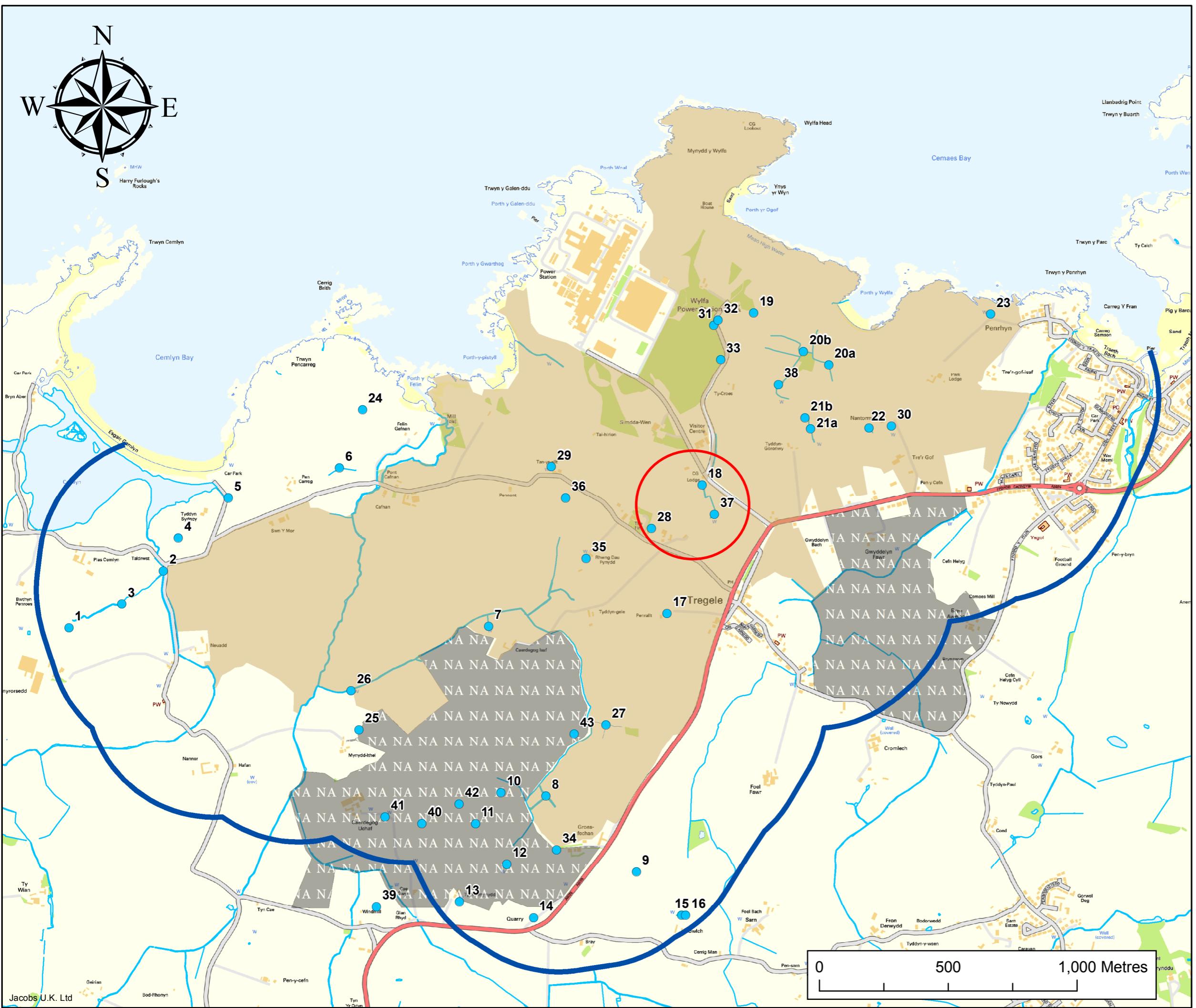
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Appendices

Figure 1 Location of ponds surveyed

Field record sheets

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Legend

- Pond
- Study Area Boundary
- Wylfa Newydd Development Area
- ANA No Access
- Watercourses
- Ponds surveyed in 2017

JACOBS
1st Floor, Kenneth Dibben House, Enterprise Road
Southampton Science Park, Southampton, SO16 7NS, UK
Tel: +44(0)2380111250 Fax: +44(0)2380111251
<http://www.jacobs.com>

HORIZON
NUCLEAR POWER

Project Wylfa Newydd

Drawing title Pond Locations

Drawn by	Check'd by	Rev'd by	Appr'd by	Date	Rev. 02
BS	JJ	AH	RB	07/07/14	14_053

Scale @ A3 1:14,000 DO NOT SCALE

Figure 2 Status Final Project no. 60PO8007

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Amphibian Survey Form

Project Code	Wylfa	VI			
Site Name	Wylfa	VI			
Observer(s)	JG	LS			
GCN Licence	JG	LS			
Pond No.	P	1	8	Cluster	<input type="checkbox"/>
Grid Reference (2 letters and 10 figures)					
Start Date	24	04	20	17	
D D / M M / Y Y	Y	Y	Y	Y	
Start Time	H	H	:	M	M
Finish Time	H	H	:	M	M

Weather	Cloud Cover (circle one)
	0 1 2 3 4 5 6 7 8
	0 1 2 3 4 5 6 7 8
	W
Wind Direction (e.g. NNW)	
Wind Speed (Beaufort 0 -12)	1
Precipitation (tick one)	
None	<input checked="" type="checkbox"/>
Light Intermittent	<input type="checkbox"/>
Light Persistent	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>
Vegetation Cover (tick one)	
None	<input type="checkbox"/>
Slight cover	<input type="checkbox"/>
Moderate cover	<input type="checkbox"/>
Half covered	<input checked="" type="checkbox"/>
Mainly covered	<input type="checkbox"/>
Completely obscured	<input type="checkbox"/>
Water Temp. (°C)	<input type="checkbox"/>
Minimum Temp. (°C)	7
Maximum Temp. (°C)	7
Surveys Conducted (tick all that apply even if nothing was found)	
Torching	<input checked="" type="checkbox"/>
Bottling	<input checked="" type="checkbox"/>
Netting	<input type="checkbox"/>
Refuges	<input type="checkbox"/>
Egg searches	<input checked="" type="checkbox"/>
Additional Species Present (e.g. fish)	



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹

Great-crested					Palmate					Smooth					Unidentified Newt										
Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	
					1																				

BOTTLING¹ *None*

Great-crested					Palmate					Smooth					Unidentified Newt										
Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	

NETTED¹

Great-crested					Palmate					Smooth					Unidentified Newt										
Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	

REFUGE¹

Great-crested					Palmate					Smooth					Unidentified Newt										
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	

EGG SEARCHES (individual egg(s) unless otherwise stated) *None*

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



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Amphibian Survey Form

Project Code	[]	No. of Bottles	0
Site Name	Wylfa	Pond Condition	[]
Observer(s)	JG LS	% Surveyed	100
GCN Licence	SG LS	Turbidity (tick one)	
Pond No.	P 28 b	Completely clear	<input type="checkbox"/>
Cluster	[]	Slightly turbid	<input type="checkbox"/>
Grid Reference (2 letters and 10 figures)	[]	Moderately turbid	<input type="checkbox"/>
	[]	Turbid	<input type="checkbox"/>
	[]	Mainly turbid	<input type="checkbox"/>
	[]	Very turbid	<input type="checkbox"/>
Start Date	24042017	Vegetation Cover (tick one)	
	D D / M M / Y Y Y Y	None	<input type="checkbox"/>
Start Time	[]	Slight cover	<input type="checkbox"/>
	[]	Moderate cover	<input type="checkbox"/>
Finish Time	H H : M M	Half covered	<input type="checkbox"/>
	[]	Mainly covered	<input type="checkbox"/>
	[]	Completely obscured	<input type="checkbox"/>
Water Temp. (°C)	[]		

Weather	Cloud Cover (circle one)
	0 1 2 3 4 5 6 7 8
	3
Wind Direction (e.g. NNW)	[]
Wind Speed (Beaufort 0 -12)	[]
Precipitation (tick one)	
	None
	Light Intermittent
	Light Persistent
	Heavy Intermittent
	Heavy Persistent
Minimum Temp. (°C)	[]
Maximum Temp. (°C)	[]
Surveys Conducted (tick all that apply even if nothing was found)	
	Torching
	Bottling
	Netting
	Refuges
	Egg searches
Additional Species Present (e.g. fish)	
[]	

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmate						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) **None**

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	[]	[]	[]	[]	[]
Site Name	Wylfa	W			
Observer(s)	JG	LS			
GCN Licence	JG	LS			
Pond No.	P	37	Cluster	[]	[]
Grid Reference (2 letters and 10 figures)	[]	[]	[]	[]	[]

Weather								
Cloud Cover (circle one)								
0	1	2	3	4	5	6	7	8
Wind Direction (e.g. NNW)								
W	[]	[]	[]	[]	[]	[]	[]	[]
Wind Speed (Beaufort 0 -12)								
1	[]	[]	[]	[]	[]	[]	[]	[]
Precipitation (tick one)								
<input checked="" type="checkbox"/> None								
	Light Intermittent							
		Light Persistent						
			Heavy Intermittent					
				Heavy Persistent				
Vegetation Cover (tick one)								
<input type="checkbox"/> None								
	Slight cover							
		Moderate cover						
			Half covered					
				Mainly covered				
					Completely obscured			
Water Temp. (°C)								
7	[]	[]	[]	[]	[]	[]	[]	[]

Start Date	24042017			
	D D / M M / Y Y Y Y			
Start Time	[]	[]	[]	[]
	H H : M M			
Finish Time	[]	[]	[]	[]
	H H : M M			

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			

Additional Species Present (e.g. fish)



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *None*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹ *None*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmate						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *None*

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



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Amphibian Survey Form

Project Code	<input type="text"/>				
Site Name	Wulfa	W2			
Observer(s)	LS	AM			
GCN Licence	LS	AM			
Pond No.	P18	Cluster	<input type="text"/>		
Grid Reference (2 letters and 10 figures)	<input type="text"/>				

Weather	Cloud Cover (circle one)								
	0	1	2	3	4	5	6	7	8
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wind Direction (e.g. NNW)	<input type="text"/>								
Wind Speed (Beaufort 0 -12)	<input type="text"/>								
Precipitation (tick one)	<input type="checkbox"/>								
	None								
	Light Intermittent								
	Light Persistent								
	Heavy Intermittent								
	Heavy Persistent								
Minimum Temp. (°C)	<input type="text"/>								
Maximum Temp. (°C)	<input type="text"/>								
Surveys Conducted (tick all that apply even if nothing was found)	<input type="checkbox"/>								
	Torching								
	Bottling								
	Netting								
	Refuges								
	Egg searches								
Additional Species Present (e.g. fish)	<input type="text"/>								

No. of Bottles	10	
Pond Condition	% Surveyed	100
Turbidity (tick one)	<input type="checkbox"/>	
Completely clear	<input type="checkbox"/>	
Slightly turbid	<input type="checkbox"/>	
Moderately turbid	<input type="checkbox"/>	
Turbid	<input type="checkbox"/>	
Mainly turbid	<input type="checkbox"/>	
Very turbid	<input type="checkbox"/>	
Vegetation Cover (tick one)	<input type="checkbox"/>	
None	<input type="checkbox"/>	
Slight cover	<input type="checkbox"/>	
Moderate cover	<input type="checkbox"/>	
Half covered	<input type="checkbox"/>	
Mainly covered	<input type="checkbox"/>	
Completely obscured	<input type="checkbox"/>	
Water Temp. (°C)	<input type="text"/>	
Start Date	02052017	
	D D / M M / Y Y Y Y	
Start Time	<input type="text"/>	
Finish Time	<input type="text"/>	
H H : M M	<input type="checkbox"/>	
H H : M M	<input type="checkbox"/>	

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *None*

Great-crested						Palmar						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead
						1																	

BOTTLING¹

Great-crested						Palmar						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmar						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmar						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *None*

Great-crested	Palmar	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	<input type="text"/>							
Site Name	Wijfa (V2)							
Observer(s)	LS	AM						
GCN Licence	LS	AM						
Pond No.	P	2	8	b	Cluster	<input type="text"/>		
Grid Reference (2 letters and 10 figures)	<input type="text"/>							
Start Date	0	2	0	5	2	0	1	7
D D / M M / Y Y Y Y	<input type="text"/>							
Start Time	H	H	:	M	M			
Finish Time	H	H	:	M	M			

Water Temp. (°C)	<input type="text"/>	<input type="text"/>	
Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			

Weather	Cloud Cover (circle one)								
	0	1	2	3	4	5	6	7	8
Pond Condition	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
% Surveyed	100								
Turbidity (tick one)									
Completely clear	<input type="checkbox"/>								
Slightly turbid	<input type="checkbox"/>								
Moderately turbid	<input type="checkbox"/>								
Turbid	<input checked="" type="checkbox"/>								
Mainly turbid	<input type="checkbox"/>								
Very turbid	<input type="checkbox"/>								
Vegetation Cover (tick one)									
None	<input type="checkbox"/>								
Slight cover	<input checked="" type="checkbox"/>								
Moderate cover	<input type="checkbox"/>								
Half covered	<input type="checkbox"/>								
Mainly covered	<input type="checkbox"/>								
Completely obscured	<input type="checkbox"/>								
Surveys Conducted (tick all that apply even if nothing was found)									
Torching	<input checked="" type="checkbox"/>								
Bottling	<input type="checkbox"/>								
Netting	<input type="checkbox"/>								
Refuges	<input type="checkbox"/>								
Egg searches	<input checked="" type="checkbox"/>								

Additional Species Present (e.g. fish)								
---	--	--	--	--	--	--	--	--



TORCHING¹

NONE

Great-crested								Palmate								Smooth								Unidentified Newt							
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead								

BOTTLING¹

N/A

Great-crested								Palmate								Smooth								Unidentified Newt							
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead								

NETTED¹

Great-crested								Palmate								Smooth								Unidentified Newt							
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead								

REFUGE¹

Great-crested								Palmate								Smooth								Unidentified Newt							
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead								

EGG SEARCHES (individual eggs(s) unless otherwise stated) **NONE**

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	Wylfa	W2
Site Name	Wylfa	W2
Observer(s)	LS	AM
GCN Licence	LS	AM
Pond No.	P	37
Grid Reference (2 letters and 10 figures)	H H : M M M	

No. of Bottles	10
Pond Condition	75
Turbidity (tick one)	
Completely clear	<input type="checkbox"/>
Slightly turbid	<input type="checkbox"/>
Moderately turbid	<input checked="" type="checkbox"/>
Turbid	<input type="checkbox"/>
Mainly turbid	<input type="checkbox"/>
Very turbid	<input type="checkbox"/>
Vegetation Cover (tick one)	
None	<input type="checkbox"/>
Slight cover	<input type="checkbox"/>
Moderate cover	<input type="checkbox"/>
Half covered	<input checked="" type="checkbox"/>
Mainly covered	<input type="checkbox"/>
Completely obscured	<input type="checkbox"/>
Water Temp. (°C)	17
Start Date	02/05/2017
D D / M M / Y Y Y	
Start Time	
Finish Time	

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			

Weather	
Cloud Cover (circle one)	2
0 1 2 3 4 5 6 7 8	
Wind Direction (e.g. NNW)	
Wind Speed (Beaufort 0 -12)	0
Precipitation (tick one)	
None	<input type="checkbox"/>
Light Intermittent	<input type="checkbox"/>
Light Persistent	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>
Minimum Temp. (°C)	10
Maximum Temp. (°C)	12
Surveys Conducted (tick all that apply even if nothing was found)	
Torching	<input checked="" type="checkbox"/>
Bottling	<input checked="" type="checkbox"/>
Netting	<input type="checkbox"/>
Refuges	<input type="checkbox"/>
Egg searches	<input checked="" type="checkbox"/>
Additional Species Present (e.g. fish)	



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead
						1	1																

BOTTLING¹

None

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) **None**

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	WYFA	10
Site Name	WYFA	W3
Observer(s)	LS	AM
GCN Licence	LS	AM
Pond No.	P 18	Cluster
Grid Reference (2 letters and 10 figures)		
Start Date	08052017	
Start Time	D D / M M / Y Y Y Y	
Finish Time	H H : M M	

No. of Bottles	10
Pond Condition	100
% Surveyed	100
Turbidity (tick one)	
Completely clear	<input type="checkbox"/>
Slightly turbid	<input checked="" type="checkbox"/>
Moderately turbid	<input type="checkbox"/>
Turbid	<input type="checkbox"/>
Mainly turbid	<input type="checkbox"/>
Very turbid	<input type="checkbox"/>
Vegetation Cover (tick one)	
None	<input type="checkbox"/>
Slight cover	<input type="checkbox"/>
Moderate cover	<input type="checkbox"/>
Half covered	<input type="checkbox"/>
Mainly covered	<input checked="" type="checkbox"/>
Completely obscured	<input type="checkbox"/>
Water Temp. (°C)	10
	12

Weather	Cloud Cover (circle one)
0	1 2 3 4 5 6 7 8
Wind Direction (e.g. NNW)	W
Wind Speed (Beaufort 0 -12)	1
Precipitation (tick one)	
None	<input type="checkbox"/>
Light Intermittent	<input type="checkbox"/>
Light Persistent	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>
Minimum Temp. (°C)	10
Maximum Temp. (°C)	12

Surveys Conducted (tick all that apply even if nothing was found)

Torching	<input checked="" type="checkbox"/>
Bottling	<input checked="" type="checkbox"/>
Netting	<input type="checkbox"/>
Refuges	<input type="checkbox"/>
Egg searches	<input checked="" type="checkbox"/>

Additional Species Present (e.g. fish)

Common frog	
Common toad	
Natterjack toad	



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹

Great-crested						Palmarie						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead
						1																	1

BOTTLING¹

Great-crested						Palmarie						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead
						1						1											

NETTED¹

Great-crested						Palmarie						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmarie						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) **None**

Great-crested	Palmarie	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	<input type="text"/>					
Site Name	Wylfa (V3)					
Observer(s)	LS AH					
GCN Licence	L9 AH					
Pond No.	P 2 8b					
Cluster	<input type="text"/>					
Grid Reference (2 letters and 10 figures)	<input type="text"/>					
	<input type="text"/>					
	<input type="text"/>					
	<input type="text"/>					

No. of Bottles	<input type="text"/> 0
Pond Condition	<input type="text"/> 100
% Surveyed	<input type="text"/> 100
Turbidity (tick one)	<input type="checkbox"/> Completely clear <input type="checkbox"/> Slightly turbid <input type="checkbox"/> Moderately turbid <input checked="" type="checkbox"/> Turbid <input type="checkbox"/> Mainly turbid <input type="checkbox"/> Very turbid
Vegetation Cover (tick one)	<input type="checkbox"/> None <input checked="" type="checkbox"/> Slight cover <input type="checkbox"/> Moderate cover <input type="checkbox"/> Half covered <input type="checkbox"/> Mainly covered <input type="checkbox"/> Completely obscured
Start Date	<input type="text"/> 08/05/2017
D D / M M / Y Y Y Y	<input type="text"/>
Start Time	<input type="text"/> H H : M M
Finish Time	<input type="text"/> H H : M M
Water Temp. (°C)	<input type="text"/>

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			

Weather	Cloud Cover (circle one)
<input checked="" type="radio"/>	0 1 2 3 4 5 6 7 8
Wind Direction (e.g. NNW)	<input type="text"/> W
Wind Speed (Beaufort 0 -12)	<input type="text"/> 1
Precipitation (tick one)	<input checked="" type="checkbox"/> None <input type="checkbox"/> Light Intermittent <input type="checkbox"/> Light Persistent <input type="checkbox"/> Heavy Intermittent <input type="checkbox"/> Heavy Persistent
Minimum Temp. (°C)	<input type="text"/> 15
Maximum Temp. (°C)	<input type="text"/> 12
Surveys Conducted (tick all that apply even if nothing was found)	<input checked="" type="checkbox"/> Torching <input type="checkbox"/> Bottling <input type="checkbox"/> Netting <input checked="" type="checkbox"/> Refuges <input checked="" type="checkbox"/> Egg searches
Additional Species Present (e.g. fish)	<input type="text"/>



Atmos Consulting Ltd
Amphibian Survey Form

NONE

TORCHING¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palminate						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) **NONE**

Great-crested	Palminate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



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Amphibian Survey Form

Weather									
Cloud Cover (circle one)	0	1	2	3	4	5	6	7	8
Wind Direction (e.g. NNW)			W						
Wind Speed (Beaufort 0 -12)	1								
Precipitation (tick one)	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Light Intermittent	<input type="checkbox"/> Light Persistent	<input type="checkbox"/> Heavy Intermittent	<input type="checkbox"/> Heavy Persistent				
Minimum Temp. (°C)			10						
Maximum Temp. (°C)			12						
Surveys Conducted (tick all that apply even if nothing was found)	<input checked="" type="checkbox"/> Torching <input checked="" type="checkbox"/> Bottling <input type="checkbox"/> Netting <input checked="" type="checkbox"/> Refuges <input checked="" type="checkbox"/> Egg searches								
Additional Species Present (e.g. fish)									

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				



TORCHING¹ *None*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (individual eggs(s) unless otherwise stated) *None*

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	<input type="text"/>						
Site Name	Wylfa	WY					
Observer(s)	SG	AM					
GCN Licence	TG	AM					
Pond No.	P 1 8	Cluster	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Grid Reference (2 letters and 10 figures)	<input type="text"/>						

Weather									
Cloud Cover (circle one)	0	1	2	3	4	5	6	7	8
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wind Direction (e.g. NNW)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wind Speed (Beaufort 0 -12)	<input checked="" type="radio"/>	<input type="text"/>							
Precipitation (tick one)	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light Intermittent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light Persistent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum Temp. (°C)	<input checked="" type="text"/>	<input type="text"/>							
Maximum Temp. (°C)	<input checked="" type="text"/>	<input type="text"/>							
Vegetation Cover (tick one)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slight cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Moderate cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Half covered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mainly covered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completely obscured	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Temp. (°C)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Start Date	2	2	0	5	2	0	1	7	
	D	D	/	M	M	/	Y	Y	Y
Start Time	H	H	:	M	M				
Finish Time	H	H	:	M	M				

Other Amphibians (individual adults or groups of spawn unless otherwise stated)				
Female(s)	Male(s)	Unknown	Egg-clumps	
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *NONE*

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (Individual egg(s) unless otherwise stated) *NOTE*

Great-crested	Palminate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code
Site Name Wyfffa V4
Observer(s) TG AH
GCN Licence TG AH
Pond No. P 28b Cluster
Grid Reference (2 letters and 10 figures)

Weather	Cloud Cover (circle one)
0	1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/>
Wind Direction (e.g. NNW) <input type="text"/>	
Wind Speed (Beaufort 0 -12) <input checked="" type="checkbox"/> 0 <input type="checkbox"/>	
Precipitation (tick one)	
None	<input type="checkbox"/>
Light Intermittent	<input type="checkbox"/>
Light Persistent	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>
Minimum Temp. (°C)	1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/>
Maximum Temp. (°C)	1 <input checked="" type="checkbox"/> 3 <input type="checkbox"/>
Surveys Conducted (tick all that apply even if nothing was found)	
Torching	<input checked="" type="checkbox"/>
Bottling	<input type="checkbox"/>
Netting	<input type="checkbox"/>
Refuges	<input type="checkbox"/>
Egg searches	<input checked="" type="checkbox"/>
Additional Species Present (e.g. fish)	
<input type="text"/>	



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹

None

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

N/A

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) **None**

Great-crested	Palminate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	Wolfa	W4
Site Name	Wolfa	W4
Observer(s)	JG	AH
GCN Licence	JG	AH
Pond No.	P37	Cluster
Grid Reference (2 letters and 10 figures)		
Start Date	22052017	
D D / M M / Y Y Y Y		
Start Time	H H : M M	
Finish Time	H H : M M	

No. of Bottles	10
Pond Condition	75
Turbidity (tick one)	
Completely clear	
Slightly turbid	
Moderately turbid	
Turbid	
Mainly turbid	
Very turbid	
Vegetation Cover (tick one)	
None	
Slight cover	
Moderate cover	
Half covered	
Mainly covered	
Completely obscured	
Water Temp. (°C)	12
Minimum Temp. (°C)	12
Maximum Temp. (°C)	13
Surveys Conducted (tick all that apply even if nothing was found)	
Torching	
Bottling	
Netting	
Refuges	
Egg searches	

Additional Species Present (e.g. fish)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *NONE*

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft

BOTTLING¹ *NONE*

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft

NETTED¹

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft	Female	Male	UK ²	Juv	Eft

REFUGE¹

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	Wylfa	V5
Site Name	Wylfa	V5
Observer(s)	AM	SS
GCN Licence	AM	
Pond No.	P18	Cluster
Grid Reference (2 letters and 10 figures)		
Start Date	08062017	
	D D / M M / Y Y Y Y	
Start Time	H H : M M	
Finish Time	H H : M M	

No. of Bottles	10
Pond Condition	100
Turbidity (tick one)	
Completely clear	<input type="checkbox"/>
Slightly turbid	<input type="checkbox"/>
Moderately turbid	<input checked="" type="checkbox"/>
Turbid	<input type="checkbox"/>
Mainly turbid	<input type="checkbox"/>
Very turbid	<input type="checkbox"/>
Vegetation Cover (tick one)	
None	<input type="checkbox"/>
Slight cover	<input type="checkbox"/>
Moderate cover	<input type="checkbox"/>
Half covered	<input checked="" type="checkbox"/>
Mainly covered	<input type="checkbox"/>
Completely obscured	<input type="checkbox"/>
Water Temp. (°C)	
Start Date	08062017
	D D / M M / Y Y Y Y
Start Time	H H : M M
Finish Time	H H : M M

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			

Additional Species Present (e.g. fish)

Weather	
Cloud Cover (circle one)	7
0 1 2 3 4 5 6 7 8	7
Wind Direction (e.g. NNW)	SW
Wind Speed (Beaufort 0 -12)	7
Precipitation (tick one)	
None	<input type="checkbox"/>
Light Intermittent	<input checked="" type="checkbox"/>
Light Persistent	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>
Minimum Temp. (°C)	11
Maximum Temp. (°C)	11
Surveys Conducted (tick all that apply even if nothing was found)	
Torching	<input checked="" type="checkbox"/>
Bottling	<input checked="" type="checkbox"/>
Netting	<input type="checkbox"/>
Refuges	<input type="checkbox"/>
Egg searches	<input checked="" type="checkbox"/>



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested

Palmate

Smooth

Unidentified Newt

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested

Palmate

Smooth

Unidentified Newt

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated)

NONE

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise stated
² UK=Unknown gender/age of newt



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Amphibian Survey Form

Project Code	[]	No. of Bottles	0
Site Name	Wulfa	Pond Condition	100
Observer(s)	AH	% Surveyed	55
GCN Licence	AH	Turbidity	(tick one)
Pond No.	P 2	Cluster	[]
Grid Reference (2 letters and 10 figures)	[]	Vegetation Cover	(tick one)
Start Date	08/06/2017	Water Temp. (°C)	[]
Start Time	D D / M M / Y Y Y Y		
Finish Time	H H : M M		

Weather	Cloud Cover (circle one)	0 1 2 3 4 5 6 7 8
		SW
	Wind Direction (e.g. NNW)	
	Wind Speed (Beaufort 0 -12)	7
	Precipitation (tick one)	
	None	
	Light Intermittent	
	Light Persistent	
	Heavy Intermittent	
	Heavy Persistent	
	Minimum Temp. (°C)	1 1
	Maximum Temp. (°C)	1 1
	Surveys Conducted (tick all that apply even if nothing was found)	
	Torching	
	Bottling	
	Netting	
	Refuges	
	Egg searches	
	Additional Species Present (e.g. fish)	



Atmos Consulting Ltd
Amphibian Survey Form

NONE

TORCHING¹

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

N/A

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

N/A

Great-crested						Palminate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

NONE

Great-crested						Palminate						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) **NONE**

Great-crested	Palminate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	Wylfa	15
Site Name	Wylfa	15
Observer(s)	AM	95
GCN Licence	AM	
Pond No.	037	Cluster
Grid Reference (2 letters and 10 figures)		
Start Date	08062017	
Start Time	D D / M M / Y Y Y Y	
Finish Time	H H : M M	

Weather		
Cloud Cover (circle one)	0 1 2 3 4 5 6 7 8	
Wind Direction (e.g. NNW)	SW	
Wind Speed (Beaufort 0 -12)	7	
Precipitation (tick one)		
None		
Light Intermittent		
Light Persistent		
Heavy Intermittent		
Heavy Persistent		
Minimum Temp. (°C)	11	
Maximum Temp. (°C)	11	
Surveys Conducted (tick all that apply even if nothing was found)		
Torching		
Bottling		
Netting		
Refuges		
Egg searches		
Additional Species Present (e.g. fish)		

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

Female(s)	Male(s)	Unknown	Egg-clumps
Common frog			
Common toad			
Natterjack toad			



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹ *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmate						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



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Amphibian Survey Form

Project Code						No. of Bottles	<input type="text" value="10"/>
Site Name	<u>Wifsa</u> <input checked="" type="checkbox"/> <u>Y6</u>					Pond Condition	<input type="checkbox"/>
Observer(s)	<u>AK</u> <input checked="" type="checkbox"/> <u>BCR</u>					% Surveyed	<input type="text" value="100"/>
GCN Licence	<u>AH</u>					Turbidity	(tick one)
Pond No.	<u>P</u>	<u>1</u>	<u>8</u>	Cluster	<input type="checkbox"/>	Completely clear	<input type="checkbox"/>
						Slightly turbid	<input type="checkbox"/>
						Moderately turbid	<input type="checkbox"/>
						Turbid	<input type="checkbox"/>
						Mainly turbid	<input type="checkbox"/>
						Very turbid	<input type="checkbox"/>
Grid Reference (2 letters and 10 figures)						Vegetation Cover	(tick one)
						None	<input type="checkbox"/>
						Slight cover	<input type="checkbox"/>
						Moderate cover	<input type="checkbox"/>
						Half covered	<input type="checkbox"/>
						Mainly covered	<input type="checkbox"/>
						Completely obscured	<input type="checkbox"/>

Weather	Cloud Cover (circle one)							
	0	1	2	3	4	5	6	7
							<input checked="" type="radio"/> 8	
								<input checked="" type="checkbox"/> SW
Wind Direction (e.g. NNW)	<input type="checkbox"/>							
Wind Speed (Beaufort 0 -12)	<input type="checkbox"/> 3							
Precipitation (tick one)	<input checked="" type="checkbox"/> None <input type="checkbox"/> Light Intermittent <input type="checkbox"/> Light Persistent <input type="checkbox"/> Heavy Intermittent <input type="checkbox"/> Heavy Persistent							
Minimum Temp. (°C)	<input type="checkbox"/> 13							
Maximum Temp. (°C)	<input type="checkbox"/> 24							
Surveys Conducted (tick all that apply even if nothing was found)	<input checked="" type="checkbox"/> Torching <input checked="" type="checkbox"/> Bottling <input type="checkbox"/> Netting <input type="checkbox"/> Refuges <input checked="" type="checkbox"/> Egg searches							
Additional Species Present (e.g. fish)								

Other Amphibians (individual adults or groups of spawn unless otherwise stated)							
Female(s)	Male(s)	Unknown	Egg-clumps				
Common frog							
Common toad							
Natterjack toad							



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Amphibian Survey Form

TORCHING¹ *None*

Great-crested				Palmate				Smooth				Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹ *None*

Great-crested				Palmate				Smooth				Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested				Palmate				Smooth				Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested				Palmate				Smooth				Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *None*

Great-crested	Palma te	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise

² UK=Unknown gender/age of newt



Atmos Consulting Ltd
Amphibian Survey Form

Project Code	<input type="text"/>				
Site Name	Wylfa	V6			
Observer(s)	AM	BCR			
GCN Licence	AM				
Pond No.	P	28	b	Cluster	<input type="text"/>
Grid Reference (2 letters and 10 figures)	<input type="text"/>				
Start Date	14	06	20	17	
Start Time	D	D	M	M	/ Y Y Y Y
Finish Time	H	H	:	M	M

Other Amphibians (individual adults or groups of spawn unless otherwise stated)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Female(s)	Male(s)	Unknown	Egg-clumps	
Common frog				
Common toad				
Natterjack toad				

Weather	Cloud Cover (circle one)							
	0	1	2	3	4	5	6	7
							SW	
Wind Direction (e.g. NNW)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wind Speed (Beaufort 0 -12)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Precipitation (tick one)	<input checked="" type="checkbox"/>	None	Light Intermittent	Light Persistent	Heavy Intermittent	Heavy Persistent		
	<input type="checkbox"/>							
Turbidity (tick one)	<input type="checkbox"/>	Completely clear	Slightly turbid	Moderately turbid	Turbid	Mainly turbid	Very turbid	
	<input type="checkbox"/>							
Vegetation Cover (tick one)	<input type="checkbox"/>	None	Slight cover	Moderate cover	Half covered	Mainly covered	Completely obscured	
	<input type="checkbox"/>							
Water Temp. (°C)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Surveys Conducted (tick all that apply even if nothing was found)	<input checked="" type="checkbox"/>	Torching	<input type="checkbox"/>	Bottling	<input type="checkbox"/>	Netting	<input type="checkbox"/>	Refuges
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	Egg searches
Additional Species Present (e.g. fish)	<input type="text"/>							



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *None*

Great-crested						Palmar						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹

N/A

Great-crested						Palmar						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmar						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmar						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *None*

Great-crested	Palmar	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt



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Amphibian Survey Form

Project Code	[]	No. of Bottles	10
Site Name	Wylfa (V6)	Pond Condition	75
Observer(s)	AM BCR	% Surveyed	
GCN Licence	AM	Turbidity (tick one)	
Pond No.	P 37	Completely clear	<input type="checkbox"/>
Grid Reference (2 letters and 10 figures)	[]	Slightly turbid	<input type="checkbox"/>
	[]	Moderately turbid	<input checked="" type="checkbox"/>
	[]	Turbid	<input type="checkbox"/>
	[]	Mainly turbid	<input type="checkbox"/>
	[]	Very turbid	<input type="checkbox"/>

Weather	Cloud Cover (circle one)
	0 1 2 3 4 5 6 7 8
	5 6
Wind Direction (e.g. NNW)	
Wind Speed (Beaufort 0 -12)	3
Precipitation (tick one)	
None	<input checked="" type="checkbox"/>
Light Intermittent	<input type="checkbox"/>
Light Persistent	<input type="checkbox"/>
Heavy Intermittent	<input type="checkbox"/>
Heavy Persistent	<input type="checkbox"/>
Minimum Temp. (°C)	13
Maximum Temp. (°C)	24
Surveys Conducted (tick all that apply even if nothing was found)	
Torching	<input checked="" type="checkbox"/>
Bottling	<input checked="" type="checkbox"/>
Netting	<input type="checkbox"/>
Refuges	<input type="checkbox"/>
Egg searches	<input checked="" type="checkbox"/>
Additional Species Present (e.g. fish)	[]

Start Date	14062017
	D D / M M / Y Y Y Y
Start Time	[]
	H H : M M
Finish Time	[]
	H H : M M

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				



Atmos Consulting Ltd
Amphibian Survey Form

TORCHING¹ *None*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

BOTTLING¹ *None*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

NETTED¹

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead	Female	Male	UK ²	Juv	Eft	Dead

REFUGE¹

Great-crested						Palmate						Smooth						Unidentified Newt						
Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead	Female	Male	UK ²	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) *None*

Great-crested	Palmate	Smooth	Unidentified Newt

¹ Individuals – please state if otherwise
² UK=Unknown gender/age of newt