

Archaeology Management Plan WA035-009----, Lyre, Co. Waterford

Table 5.3.1 General Information		
BAU Number	6	
County	Waterford	
Forest Name	Lyre	
Forest No.	WD06	
Property	Lyre	
Compt. No.	27844J	
HB No.	WD06_29_02	
HU No.		
FL Application Ref.	LWD06-FL0298	
Harvest Type	Clearfell	✓
	Thinning	
Conditions	<p>8) The following specific archaeological requirements shall be fully complied with –</p> <ul style="list-style-type: none"> • Pre-felling archaeological works should be carried out by a suitably qualified archaeologist • Prior to the commencement of any felling an inspection of the affected monument and a detailed plan for the removal of trees from the monument and/or its immediate environs should be submitted for the prior consideration and agreement of the Forest Service Archaeologist/National Monuments Service, DHLGH. (These plans should be submitted at least 3 weeks in advance of the felling commencement date) <p>Reason: In order to safeguard the archaeological heritage of the site and the area and to ensure the identification,</p>	

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	recording, further preservation and protection as appropriate, of any other archaeological remains (including low visibility or subsurface remains) that may exist within the site		
Roading	New road construction		
	Extension of existing road within 100m of monument		
	Road upgrade		
	New stacking area, lay-by or culvert within 100m of monument		
Road permit conditions			
Restock Plan	Operations site will be restocked?		
	Proportion of site to be restocked:		
	Proportion of site to be left unplanted (open space):		
	Species Name	Area (Ha)	Area (%)
Felling Licence conditions Restock/ Establishment	<ol style="list-style-type: none"> 1. Adhere to guidelines 2. Exclusion zone has been marked off; let operational staff know of its location and effect. 3. Trees within the exclusion zone may be removed by forwarder reaching in from edge or by motor manual. 4. No machinery to enter the exclusion zone; trees should be felled away from the zone. Logs piled and presented to avoid entry by the forwarder or machinery into exclusion zone. 5. Create minimum exclusion zone of 20m (preferably 100m) around any newly uncovered archaeology until site is investigated. 		

Table 5.3.2 Archaeology and Protected Structures Information

Category	Class Code	Description	Monument No.	Townland	Monument Location is correct on 1:5000 map?	Actual XY Coordinates
Monument	Mine	The location of the shafts is heavily overgrown and not accessible. The area of the notification zone is covered by mature coniferous forest.	WA035-009----	DRUMSLIG,LYRE (Decies within Drum By.)	Yes	620286, 586999
National Monuments						
Protected Structures		N/A				
<p><u>Published Site Description</u></p> <p>In coniferous forest on a gentle SE-facing slope, in an area where many streams feed into the Licky River. The mines here were first worked by Sir Walter Raleigh and were later owned by Sir Richard Boyle, Earl of Cork. The workings were destroyed in the 1641 Rebellion and the mines were not used again until the mid-19th century (Power 1978a, 35). There are four 'old shafts', now closed, shown on the 1st ed. of the OS 6-inch map in Drumslig, and in Lyre there are a number of oval mounds (max. dims. 30m x 15m; H 3m) which may be slag heaps, possibly from the 19th-century works.</p>						

Table 5.3.3 Monument Condition Assessment

The mine shafts are overgrown and not accessible.

Site Visit Description

The mine shafts are located within mature coniferous forest; however they are overgrown and not accessible. The large notification zone of this monument covers almost the entire area scheduled for harvesting. The exception is a small portion to the NW. The exclusion zone in that area was marked with hazard tape (see sketch).

Historic Mapping

The 1st edition 6" to the mile OS map (1839-41, Figure 2) is a detailed depiction of surrounding area around the monument; the area is described as *Old Shafts*. Later edition, the 25" to the mile historic OS map (1897, 1903-5) has no description of the monument present. Cassini (1922-3) OS map is somewhat more crude depiction of the area, offering no extra details.

Aerial Photography

The OS aerial photograph from 1995 (black & white; Figure 4) depicts the area of the monument within freshly planted forest. No details are visible.

The OS aerial from 2013-18 (Figure 5) the depiction of the area is in greater resolution showing more detail and the forestry around the monument in its current state.

It is recommended that;

- **Due to the size of the Exclusion Zone in the area further consultation with the Department of Housing, Local Government and Heritage (DHLGH) should take place in order to establish the correct and feasible approach to trees harvesting in this area.**



Table 5.3.4 Sketch map

The exclusion zone follows the boundary of the area scheduled for the harvesting to the W, S and E. The remaining portion of exclusion zone to NW was marked with hazard tape.

Table 5.3.5 Site Specific Mitigations to be implemented during operations

Field Assessment	Mitigations	Tick if Yes	Site-specific notes
Felling Exclusion zone width	Create an exclusion zone 20m around monument, mark with paint or tape (standard measure)		
	Create an exclusion zone >20m around monument, mark with paint or tape. Specify exclusion zone width.	✓	Portion of exclusion zone was marked (see sketch above)
Felling exclusion zone operations	Do not carry out any operation within the monument boundary – NB No machinery within the marked exclusion zone of the monument		
	Do not carry out any operation within the exclusion zone		
Clear-fell technique; OUTSIDE MONUMENT IN EXCLUSION ZONE	Conventional felling using harvester		
	Pollard “whippy” broadleaf trees in the exclusion zone at perimeter of monument		
	Motor-manual felling, Target and mark trees		
Clear-fell technique: INSIDE MONUMENT	Retain all trees; no felling; leave as is.		
	Fell all trees motor manually; no harvesting machine access; lift and process felled trees outside monument.		
	Fell all trees motor manually; de-branch and cross-cut; leave in place		
	Conventional felling using harvester		
	Pollard “whippy” broadleaf trees		
	Alternative extraction – specify		
Scrub removal: INSIDE MONUMENT	Remove (non-commercial) scrub from monument		
	Do not remove (non-commercial) scrub from monument		
Thinning	Fell all trees within exclusion zone (<20m from monument)		
	Select, mark and directionally fell trees within and in close proximity to the monument		
	No thin: no felling within monument and exclusion zone		
Monitoring/Supervision of operations	Environment Officer or delegated Coillte staff member to supervise work in and around monument		
	Archaeologist to supervise work in and around monument		
Establishment (restock)	Create an exclusion zone >20m around monument; mark with paint or tape		
	Leave an unplanted line of sight to another archaeological monument		

Field Assessment	Mitigations	Tick if Yes	Site-specific notes
Monument/protected structure is outside of operational area and will not be impacted upon. No mitigations required.			

Table 6 Revision history

Revision No.	Revision Date	Change details	Reason for change



Bart Korfanty

Archer Heritage Planning Ltd. 18th July 2023

NOTES: (see also SOP-034 Conducting Pre-Operations Assessments of Archaeological Monuments on the Coillte Estate)

Standard approach to felling:

- The standard approach is to remove trees from the monument by means of standard felling techniques, which is:
 - o Harvester operates up to edge of monument; reaches in to remove trees from monument
 - o Some trees may need to be motor-manually felled (i.e. felled by chainsaw) and removed by harvester
 - o Reach of machine varies. Big machine has reach of 10m
 - o Take as many trees as possible from outside monument
 - o Access to monument if required at location indicated on map; use extra brush; remove all trees on monument

Scrub Removal:

- Removal of scrub is frequently recommended by Contract Archaeologists with a view to protecting the monument
- However, from the point of view of the forester or contractor, scrub removal can be a very costly operation that adds significant complexity and workload to a forest management operation
- For these reasons, careful consideration should be given to the issue of scrub removal. The reasons for recommending either removing scrub, or not removing scrub, should be clearly stated

Thinning:

- Forest stands may be thinned several times during a standard crop rotation. The recommended practice is generally that, during thinnings, all trees are removed from the monument and/or exclusion zone. This creates an open exclusion zone in advance of future thinnings and clearfell
- If the site is deemed by the forest works manager to be prone to windthrow, the decision may be taken not to remove all trees from the monument during thinning, as this may increase the risk of windblow in the forest stand

Supervision of Operations by Contract Archaeologist:

- Supervision of operations may be proposed by contract archaeologist in ERA Step 3 Form and/or Archaeological Assessment Report, but approval of Forest Service (following consultation with the National Monuments Service) is required before a plan for supervision is implemented – this happens as part of the completed ERA Step 3 Form and the Archaeological Assessment Report approval process
- Once approved by Forest Service, contract archaeologist should discuss and agree plan for supervision in advance with Coillte Forest Works Manager, e.g. the number and frequency of visits, who to notify in advance of visits
- Periodically visit site in agreement with Coillte site manager
- Contract archaeologist may recommend post-felling assessment but FS/NMS will decide whether this is necessary

Establishment Mitigations:

- The contract archaeologist recommends width of exclusion zone around monument for restocking/establishment (with reference to the felling licence conditions)
- The outer edge of exclusion zone will then be marked on the ground by Coillte Operations Manager; this will be done after felling operations and in advance of establishment

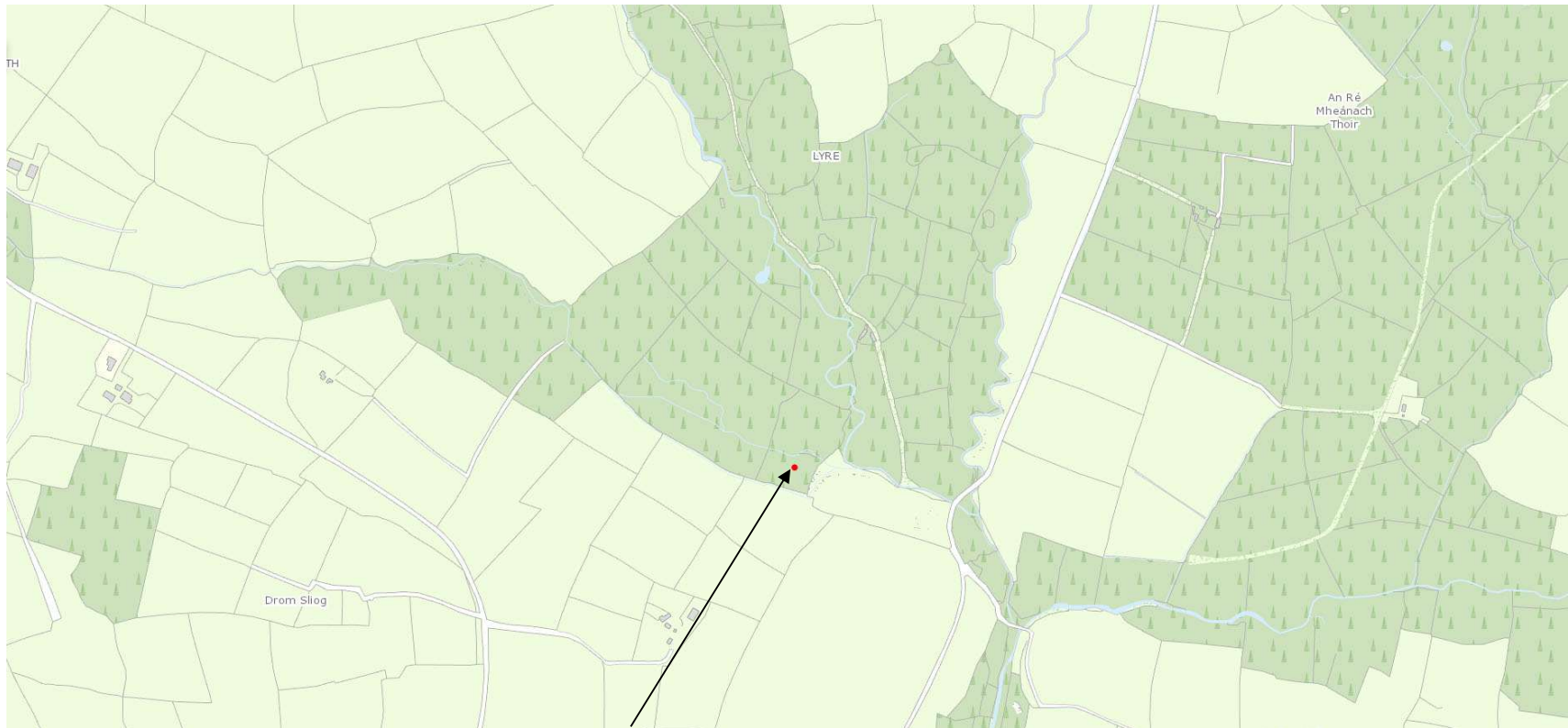


Figure 1: Location map for monument **WA035-009----- (Mine)**

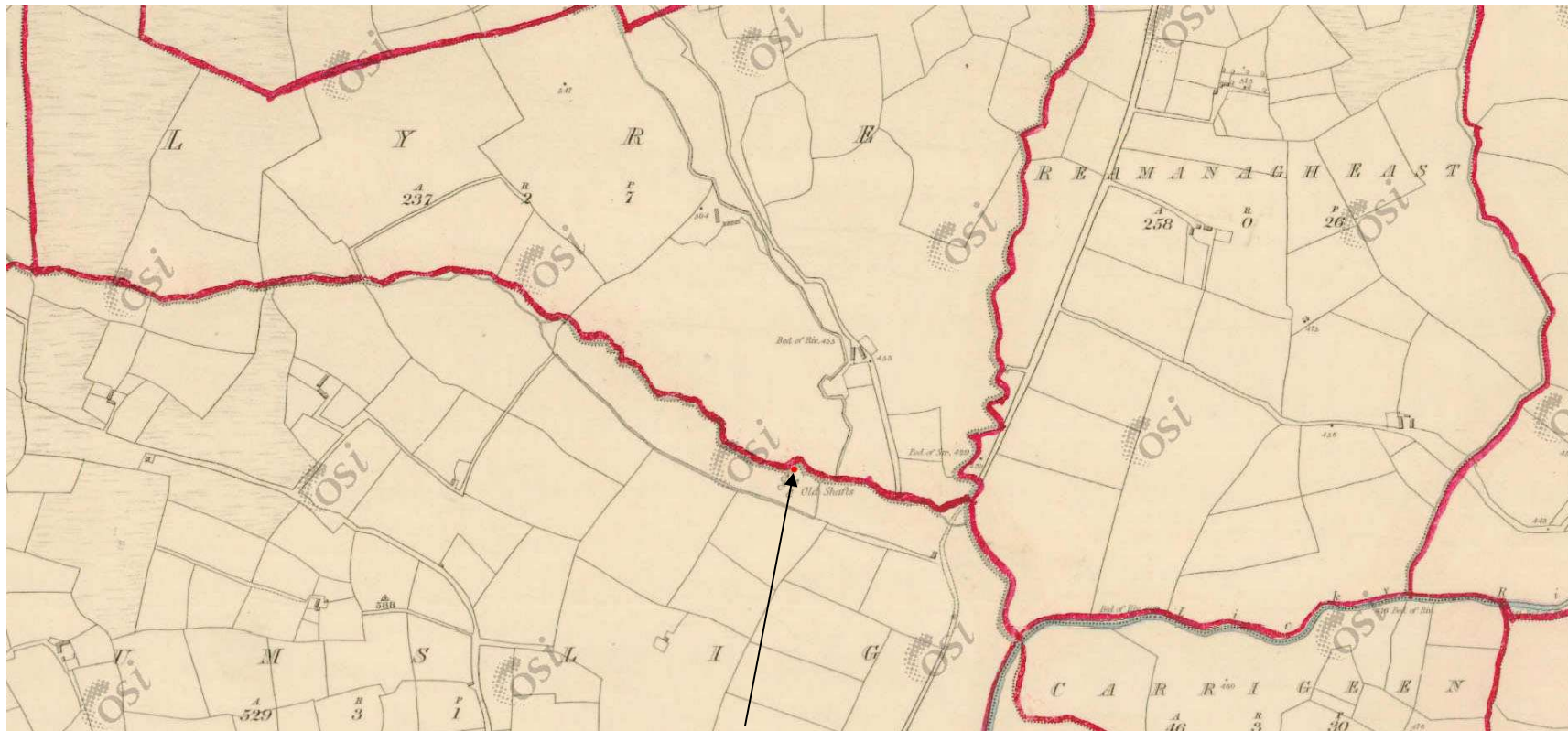


Figure 2: 1st edition 6" to mile OS map (1839-41): **WA035-009----- (Mine)**

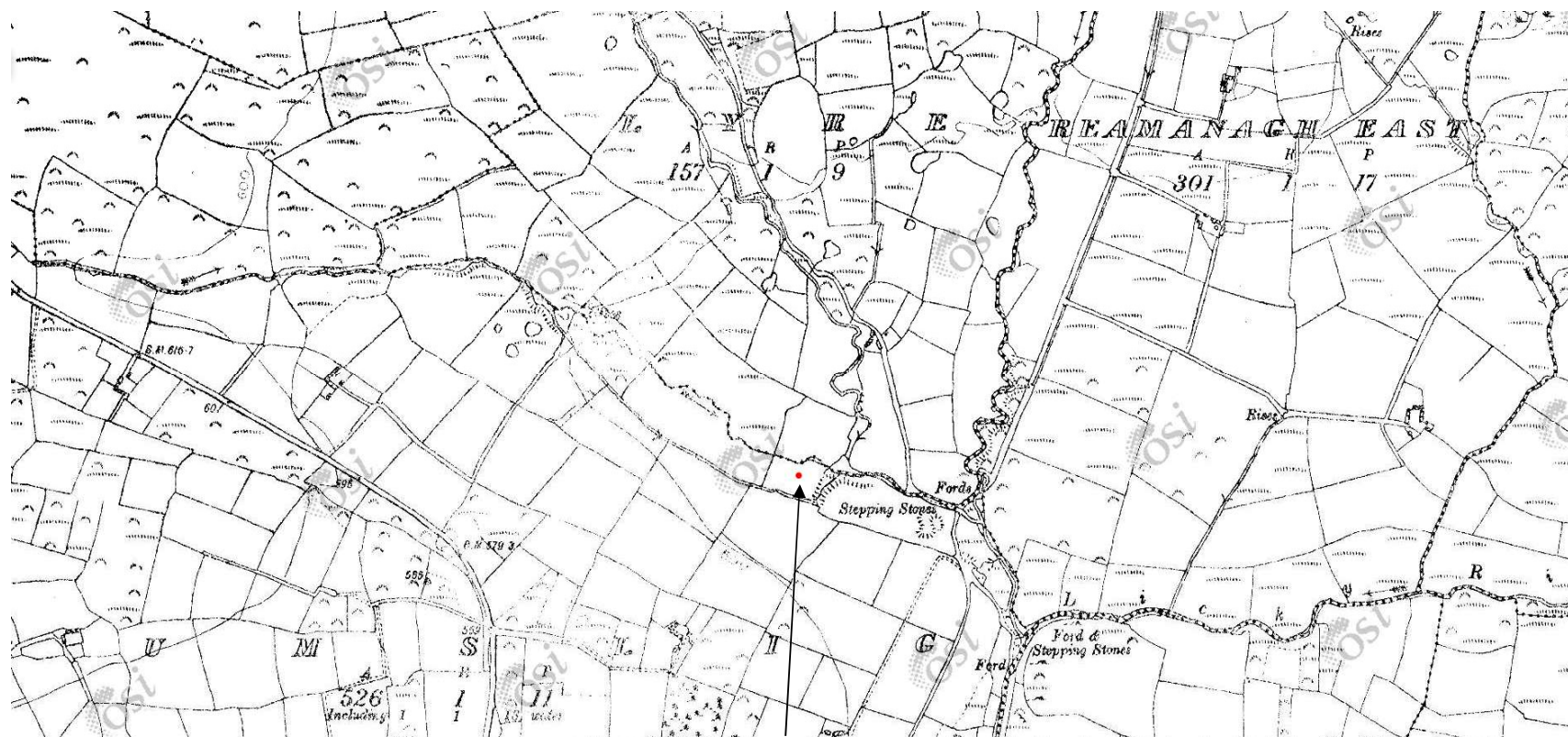


Figure 3: 2nd edition 25" to mile OS map (1922-3): **WA035-009----- (Mine)**



Figure 4: Aerial OS map (1995): WA035-009----- (Mine)



Figure 5: Digital Globe Aerial (2013-18): WA035-009----- (Mine)



Plate 1: Location of the mine shafts, looking NE



Plate 2: Exclusion zone marked along the earthen wall



Plate 3: Exclusion zone marked to NW



Plate 4: Exclusion zone marked to the N