Estuarine/ Alluvial Archaeology in Ireland. Towards Best Practice.

Department of Archaeology, University College Dublin, 26th May 2005.



Department of Archaeology



Excavations of a mill at Killoteran, Co. Waterford as part of the N-25 Waterford By-Pass Project

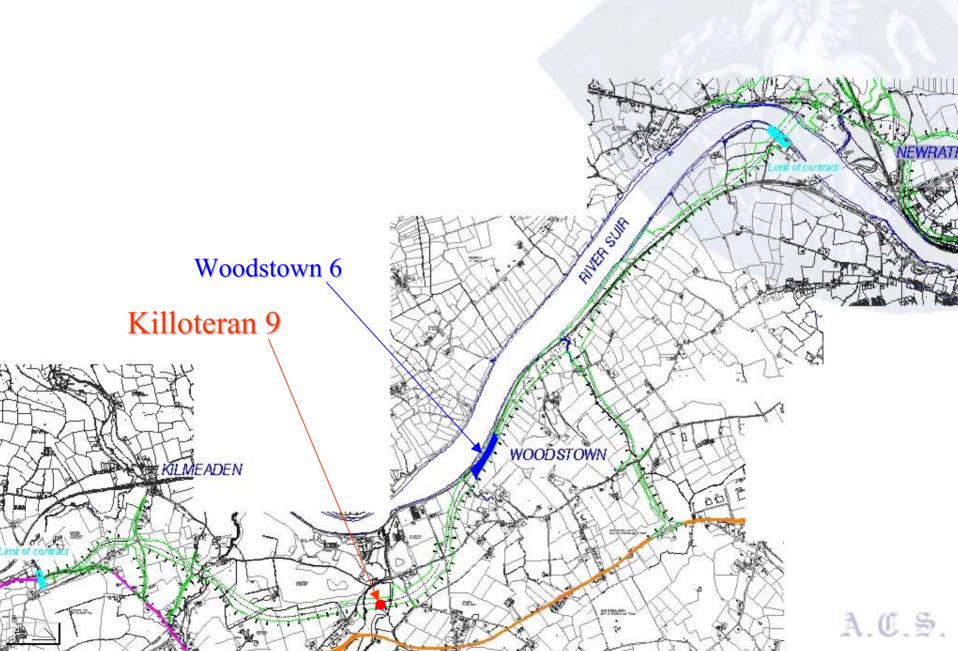


Donald Murphy

Archaeological Consultancy Services Limited



Waterford By-Pass Project: Contract 1.



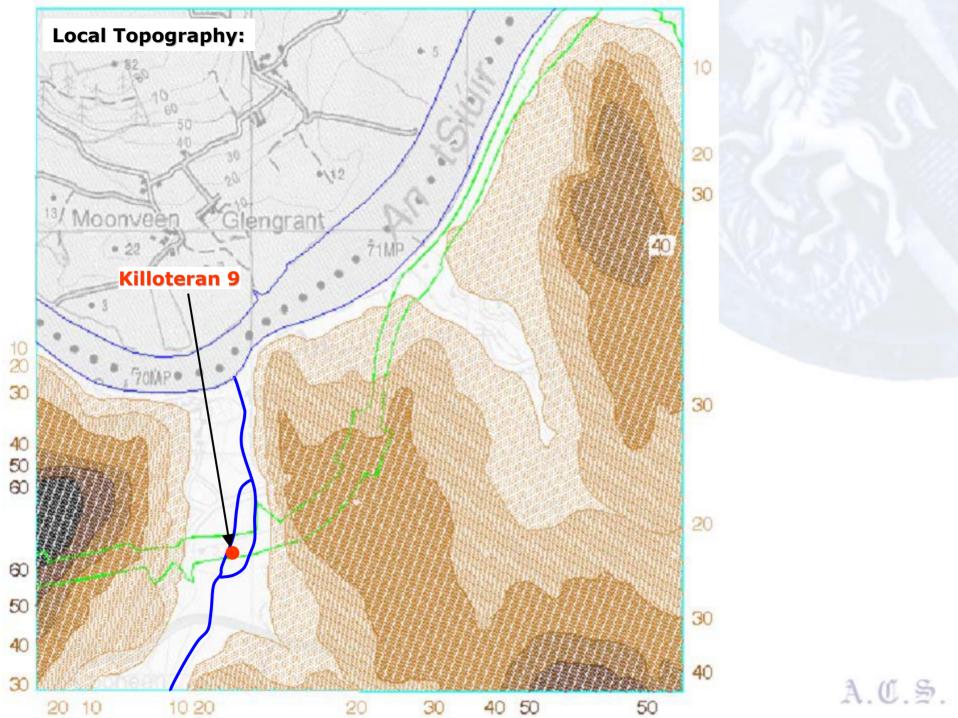
Site Location:

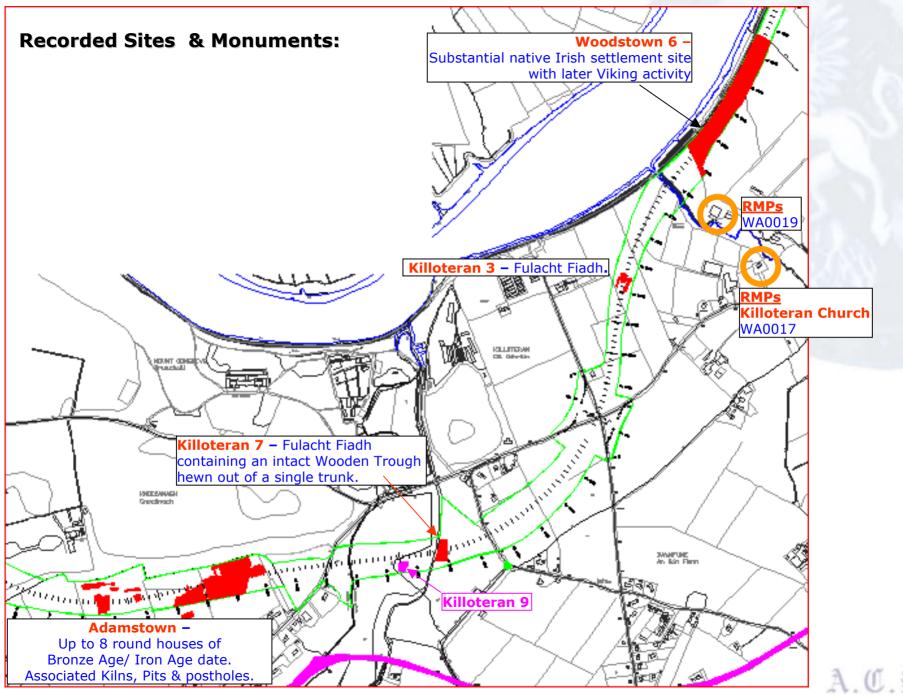


Site Location:



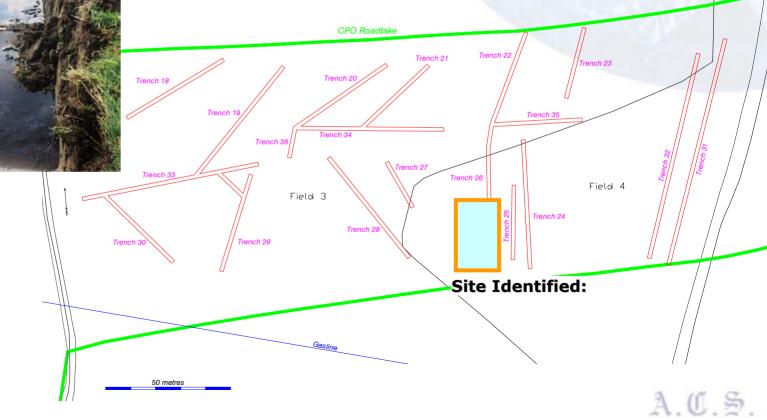






Methodology:

Initial Testing – December 2003 Test Trenches Excavated Where Possible



Methodology:

Studiolab.ie

Small Area Opened Up Around Exposed Timbers



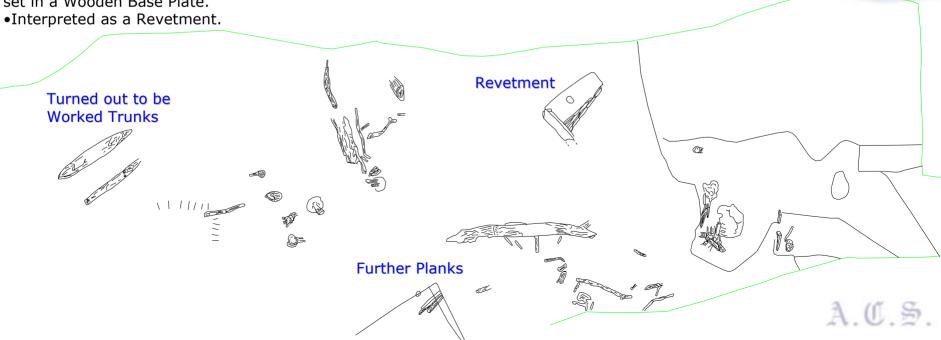




Killoteran 9: Testing December 2003

Worked Timbers exposed consisting of Posts, Stakes & Upright Planks set in a Wooden Base Plate.
Interpreted as a Revetment. •Two samples of wood sent for dating -

Sample 1: Yew Post; Cal AD 410 to 650 Oak Plank; Cal AD 340 to 600





Aims Of The Excavation:

- To identify the nature & significance of the structural remains exposed.
- To preserve by record, all archaeological features uncovered.
- To collect appropriate samples to assist in dating the site & placing it within its wider environmental context.

Excavation Results:

Excavation commenced in July 2004 & continued until October 2004 at which point it was abandoned due to bad weather.

Area opened measuring 20m x30m. Over **600 recovered Worked Timbers** to date. Majority represent collapse into the Mill Race.

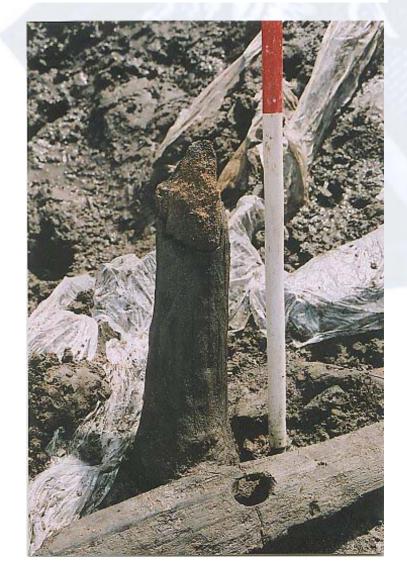






Excavation Results:

Timbers recovered including Posts, Planks & possible wheel paddles.



A.C.S.

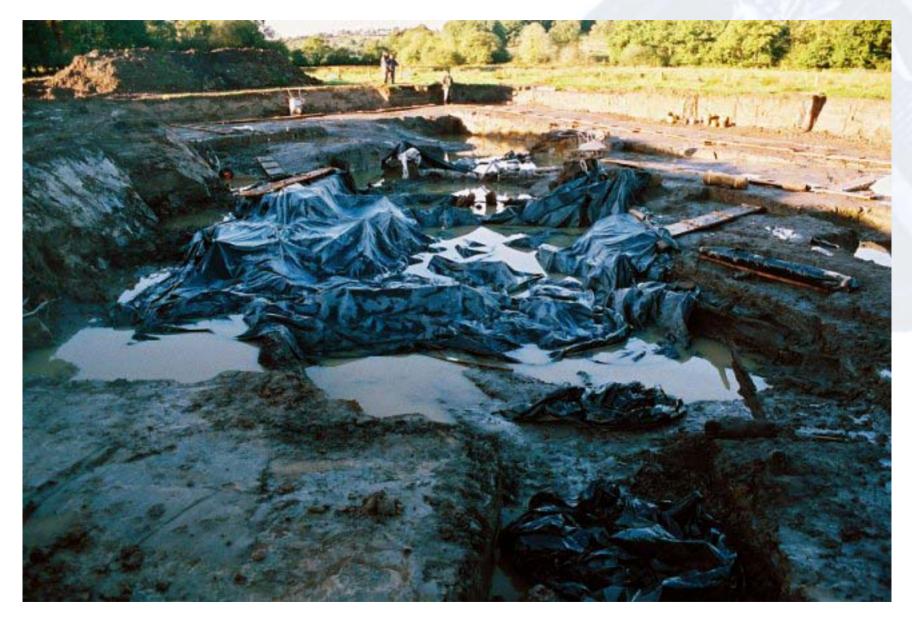


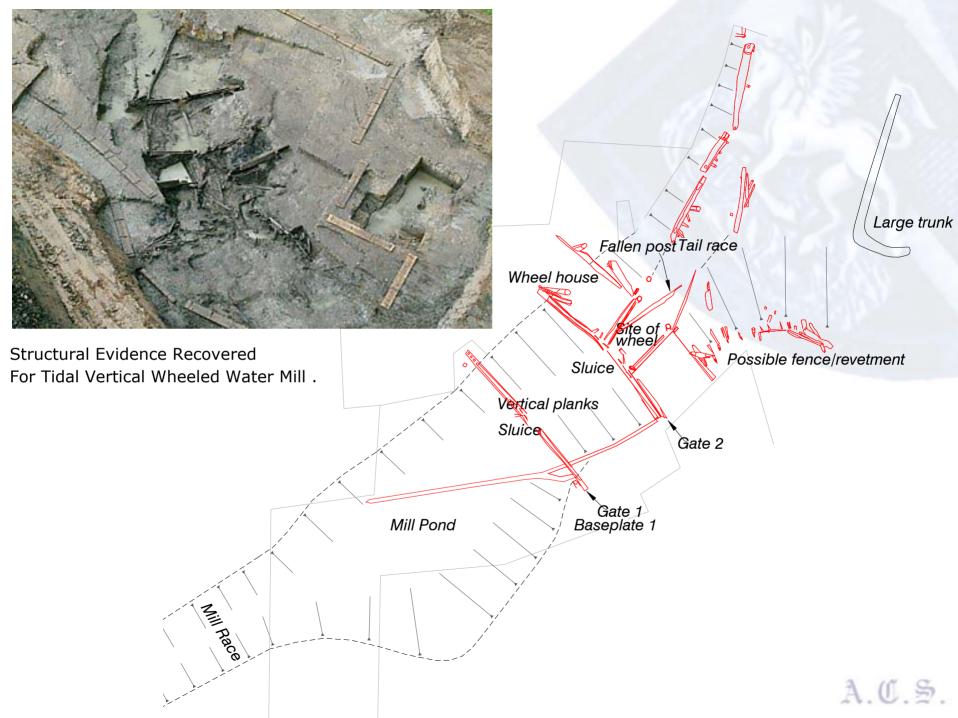




Recording & Removal:

Excavation Conditions:





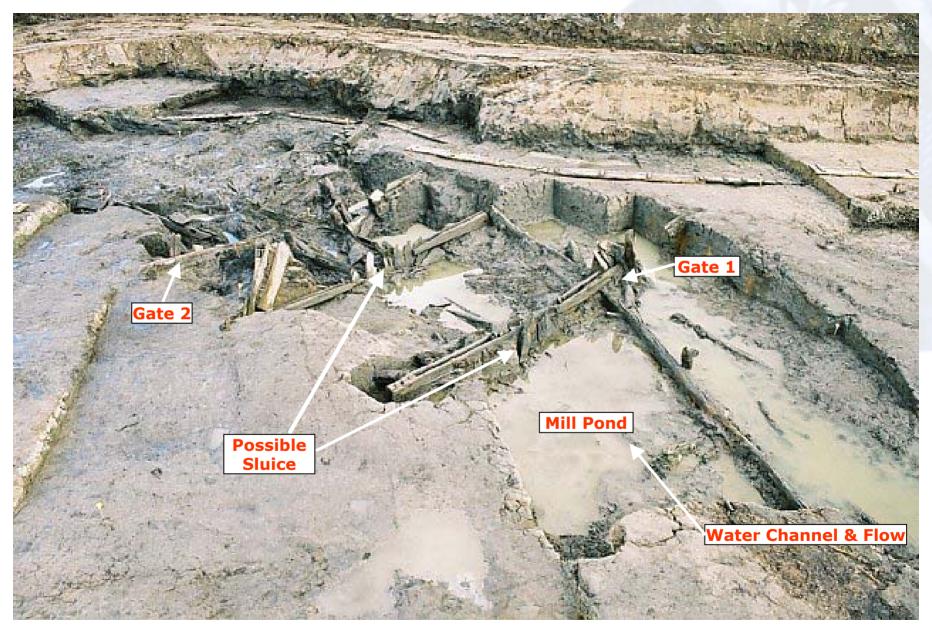


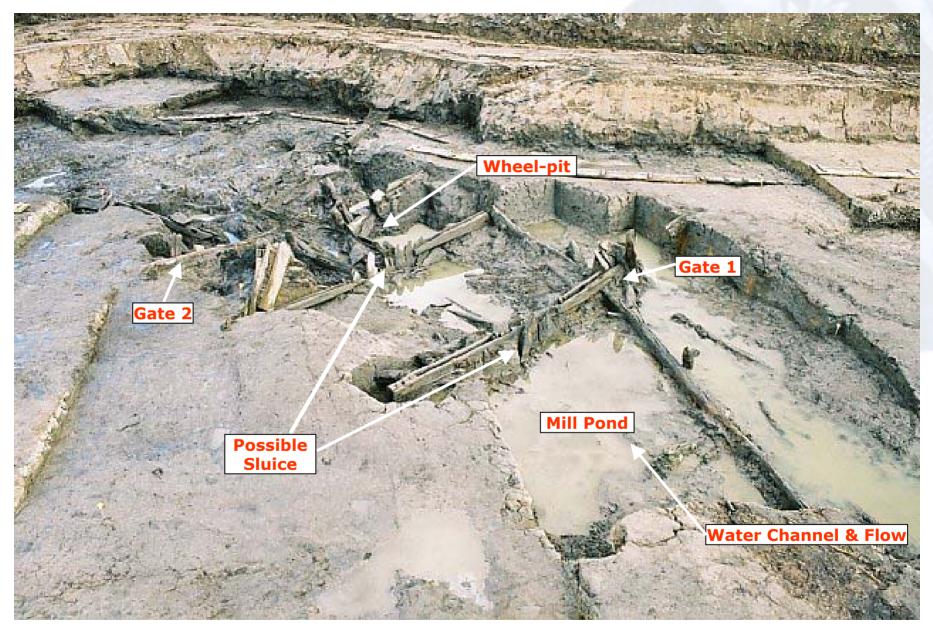


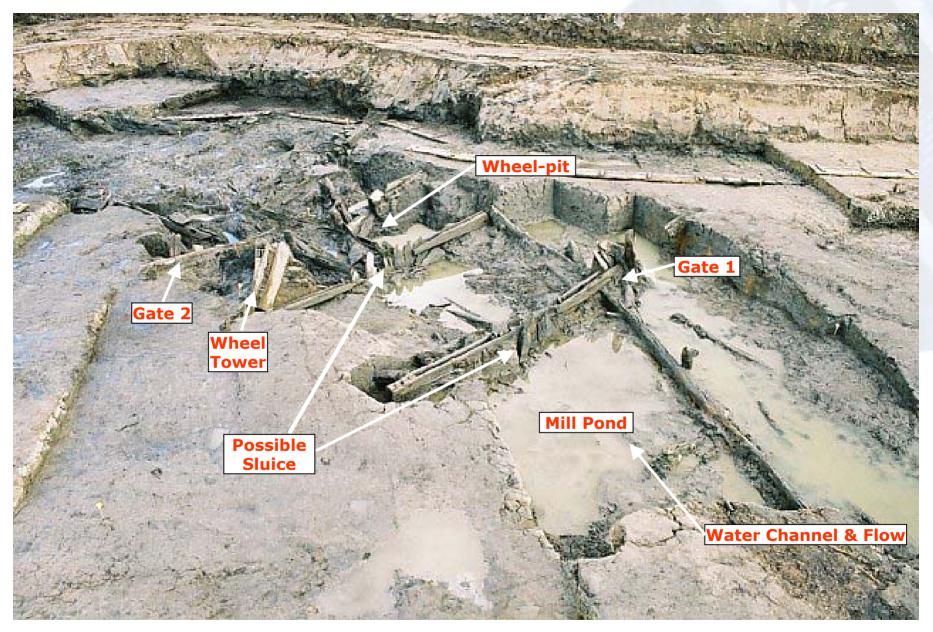


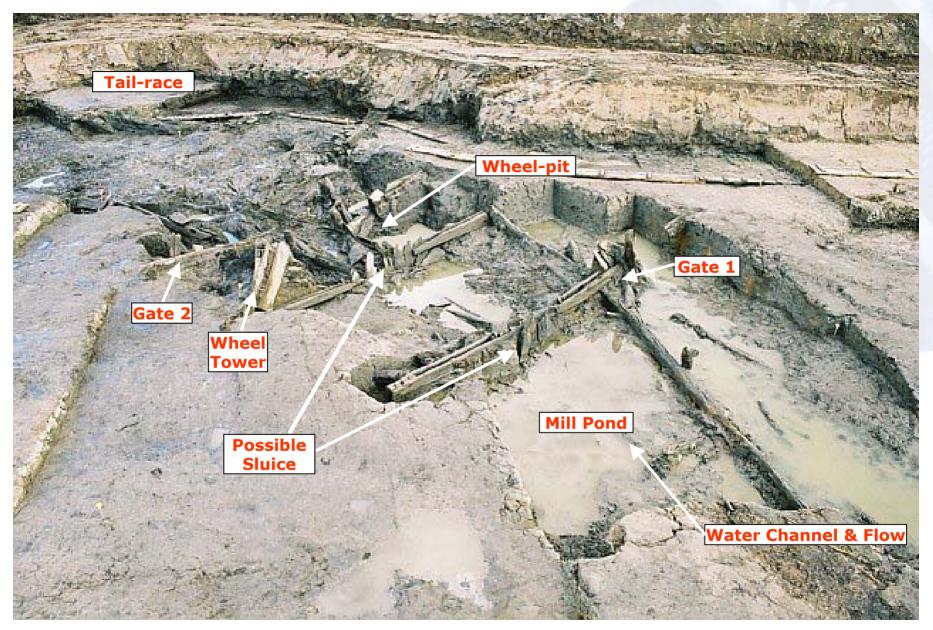


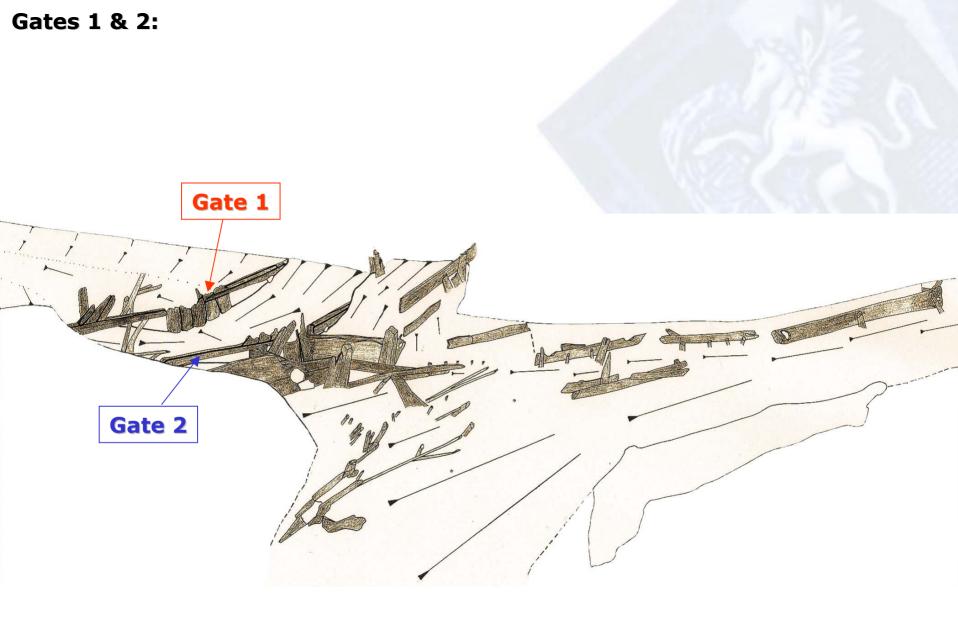


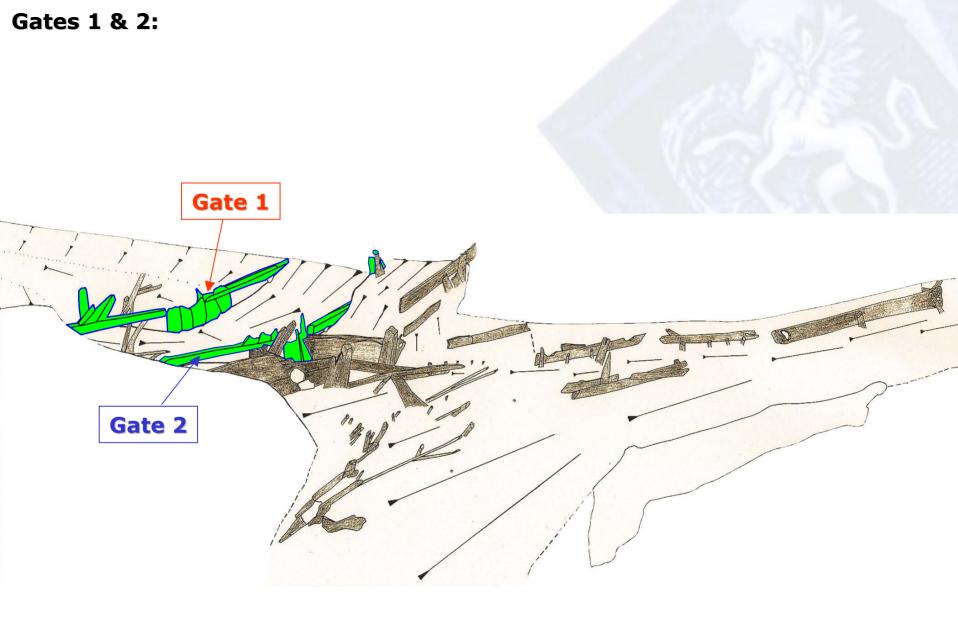












Gates 1 & 2:



Water Management:





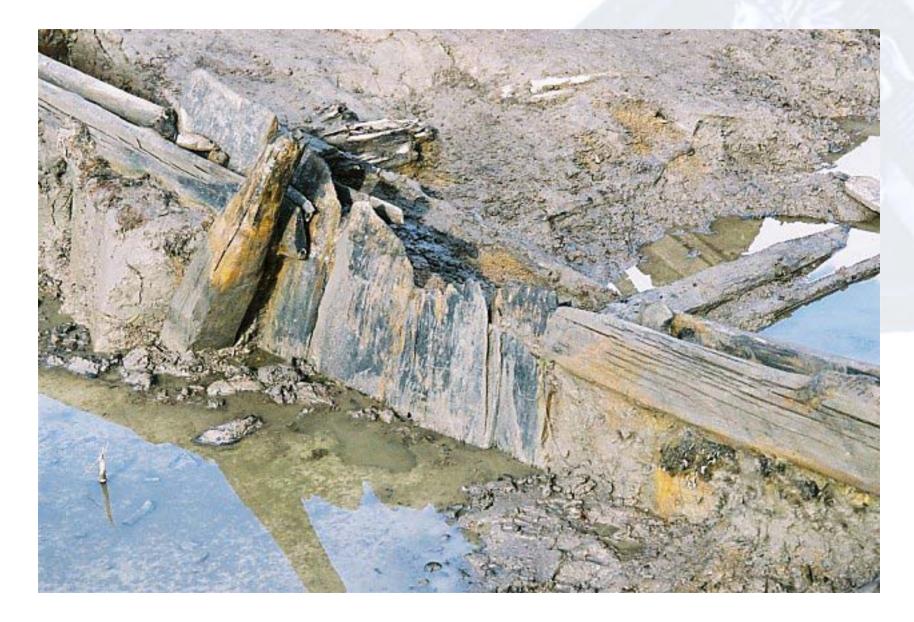
Gate 1: Base-plate.

Gate 1:

Base-plate & collapsed in-situ Planking and Upright Post.



Gate 1: Possible Sluice Gate.



Gate 2: Base-plate & in-situ Planking.

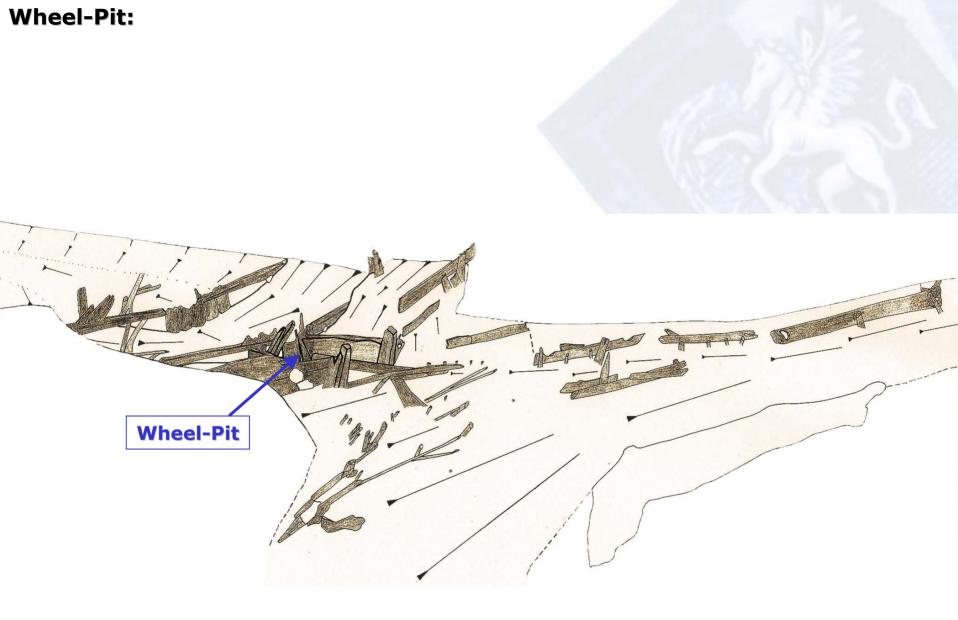


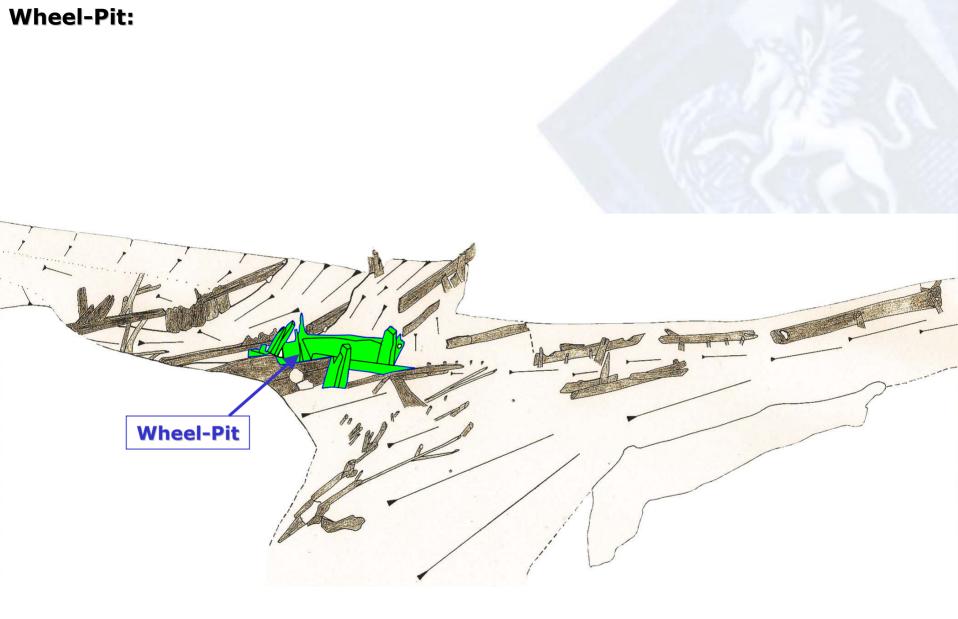
Gate 2: Fallen Vertical Planks.



Gate 2: Base-plate & Planking with possible opening towards Wheel-Pit.









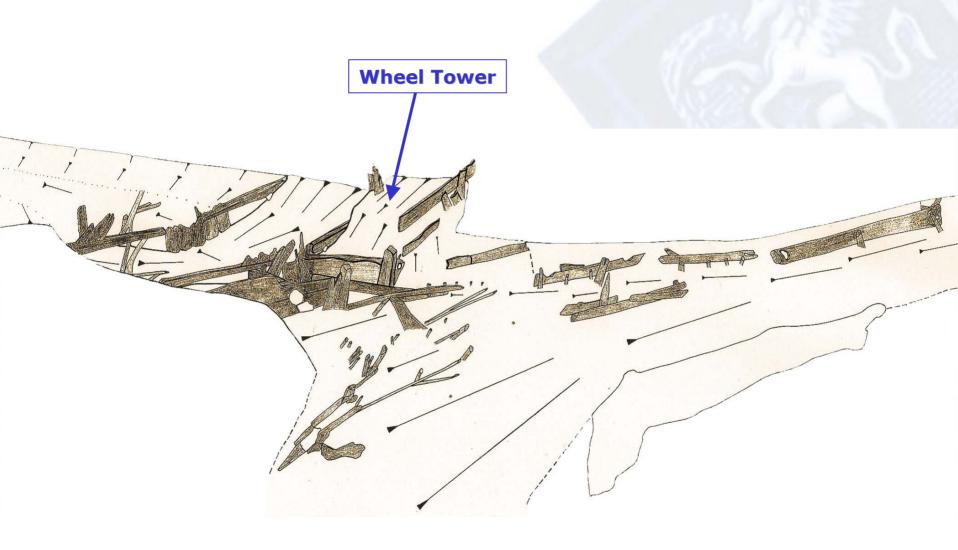
Wheel-Pit & Supports:



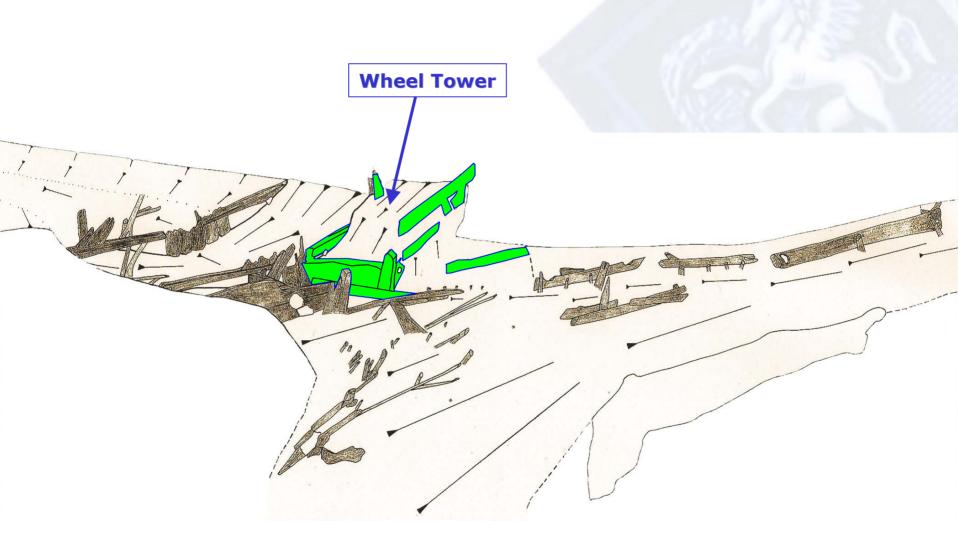
Wheel-Pit Floor:



Wheel Tower:



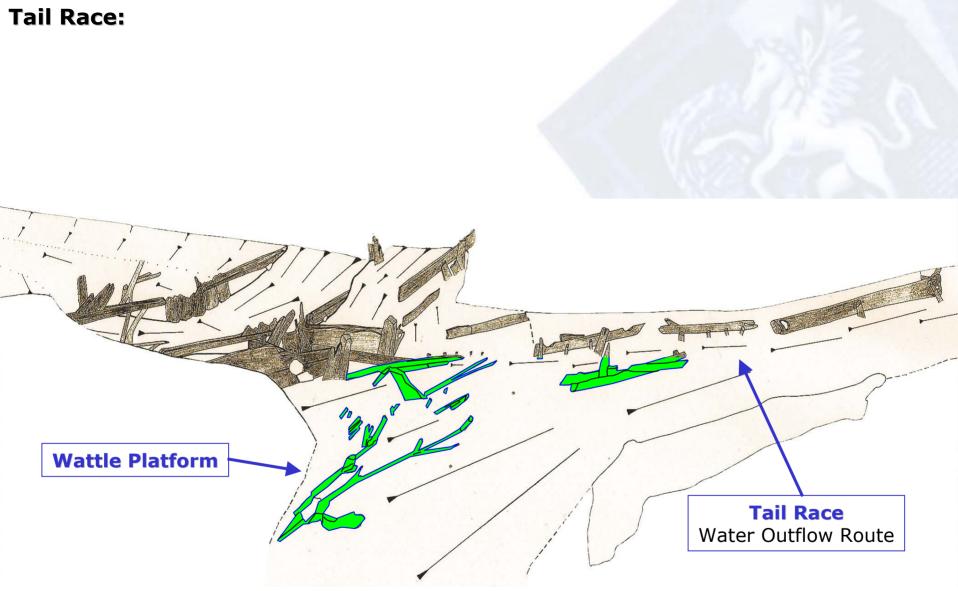
Wheel Tower:

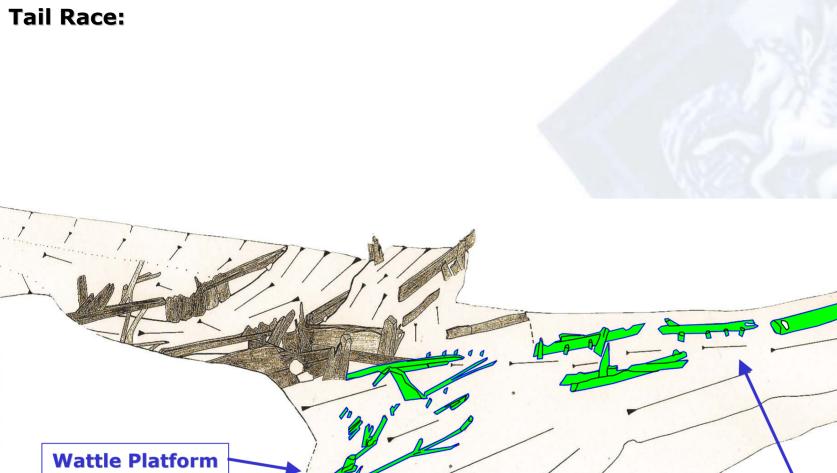


Collapsed Wheel-House Structure:



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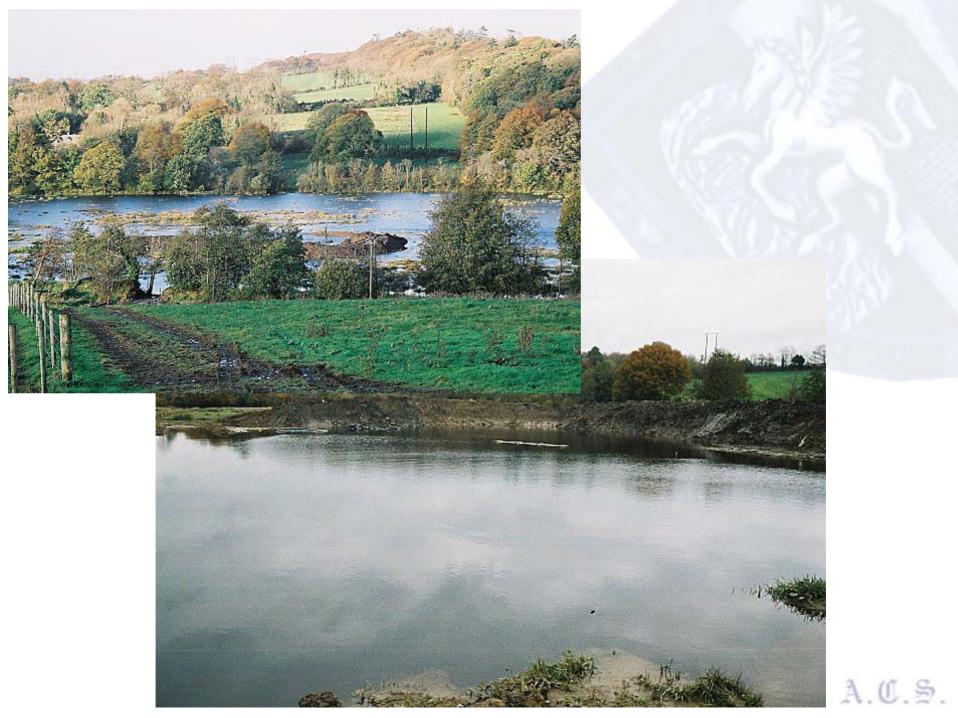


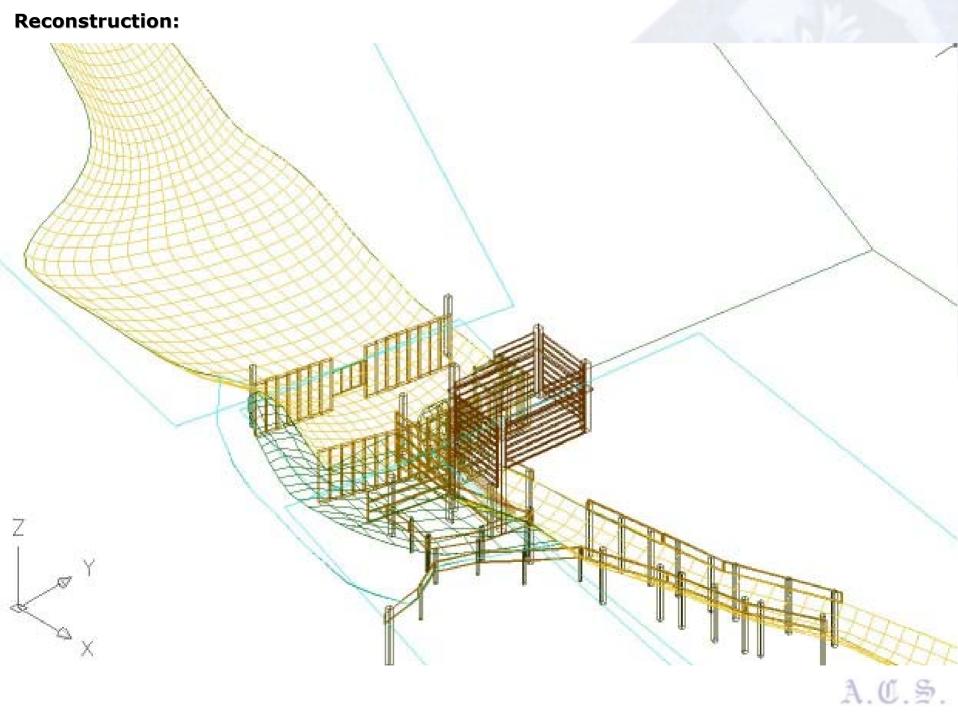
A.C.S.

Tail Race Water Outflow Route

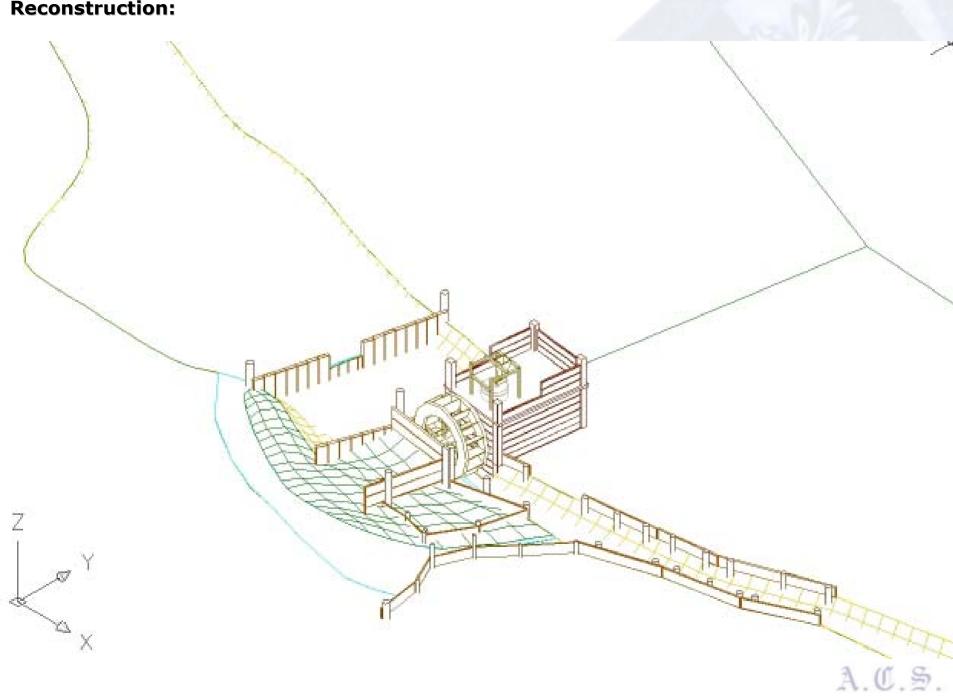
Tail Race & Fence/ Revetment:







Reconstruction:



Reconstruction:

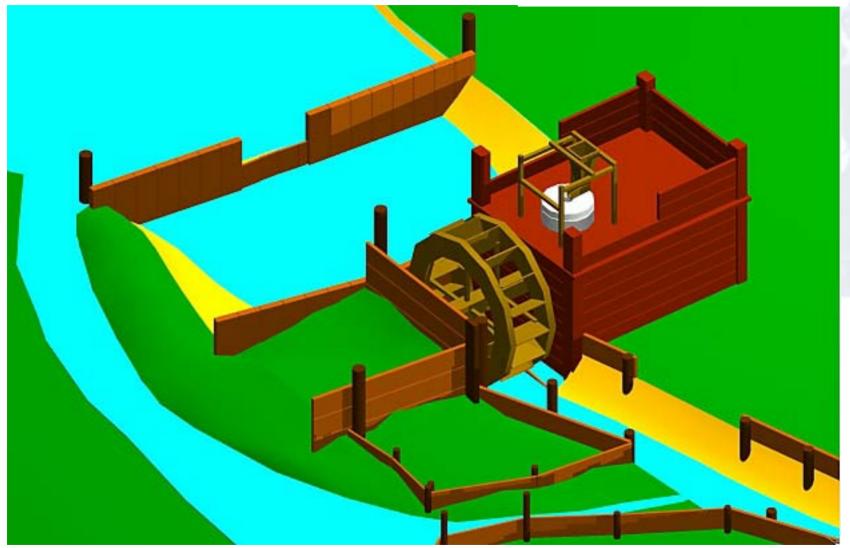




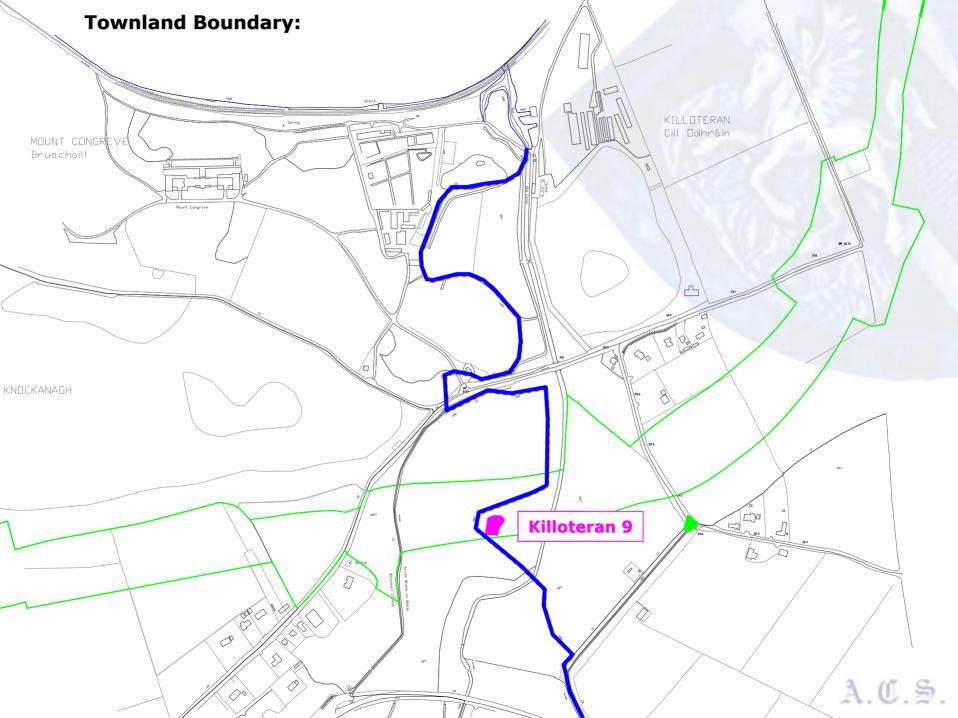
Finds:

Included – Mill Stone Fragments. Knife Handles. Clench Nails.

A.C.S.



Dates make it the earliest Irish Mill known to date. Dendro dates will confirm.



The End...



