

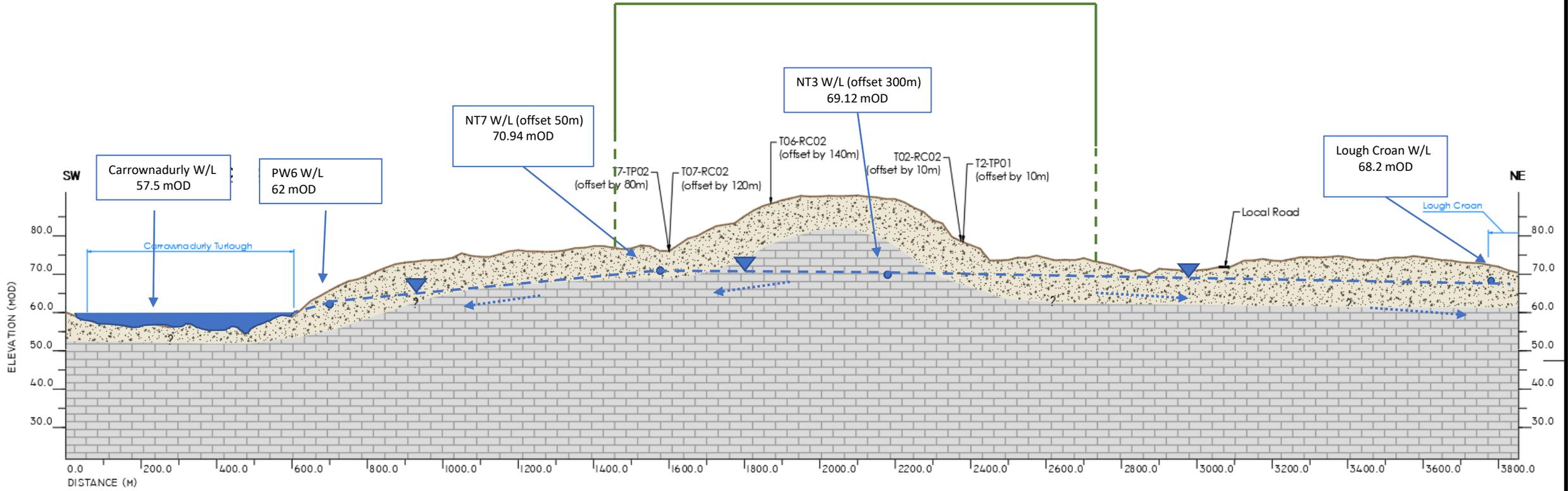


APPENDIX 9-5

**CONCEPTUAL SITE MODELS
(NORTHERN AND SOUTHERN
CLUSTERS)**

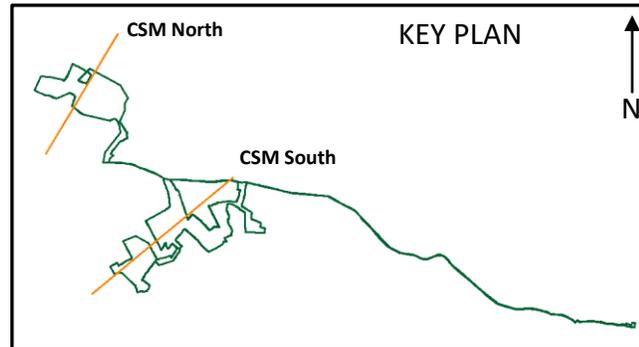
CSM - North

EIAR Site Boundary – Northern Cluster



LEGEND:

- EXISTING GROUND LEVEL
- GLACIAL TILL OVERBURDEN
- STRONG HARD LIMESTONE BEDROCK WITH OCCASIONAL WEATHERED INTERVALS



CSM Notes:

- CSM = Conceptual Site Model. This is standard terminology used in hydrogeological assessments. The CSM is defined to demonstrate an understanding of the groundwater flow characteristics below each wind turbine cluster (Northern and Southern Clusters).
- The CSMs are orientated as illustrated on the Key Plan. Their orientation is intended to be perpendicular to groundwater flow and also orientated in the direction of upstream/downstream sensitive receptors, such as turloughs and water supply sources.
- The CSMs (including the geological cross-section upon which the CSM is annotated) are based on site-specific data obtained from iterative and extensive on-site geological investigations and hydrogeological monitoring.
- Datapoints (with offset distances shown on the cross-sections) used in the drawing of these CSMs have been identified along with other important features including public roads and local turloughs.
- Note, due to the large scale of the proposed wind farm site (including the northern and southern clusters), the CSMs only illustrate a generalized geological profile. Refer to Appendix 8-5 and Chapter 8 for a detailed characterisation of the Wind Farm site geology.

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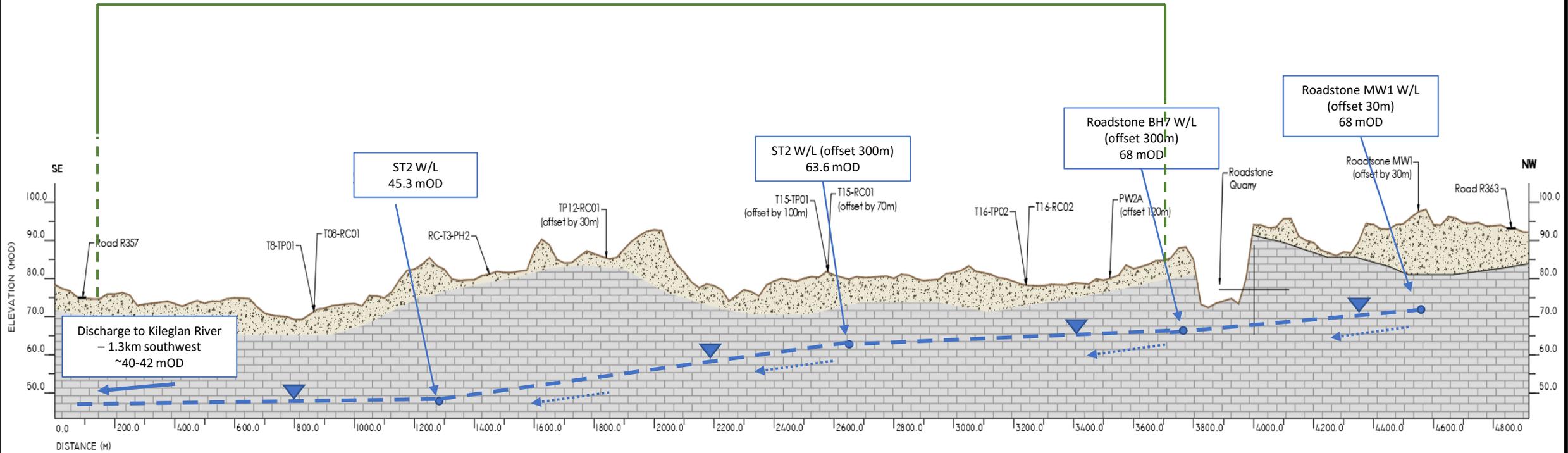
Client: Energia Renewables ROI Ltd

Job: Seven Hills WF, Co. Roscommon

Title: Appendix 9-5 - Conceptual Site Models

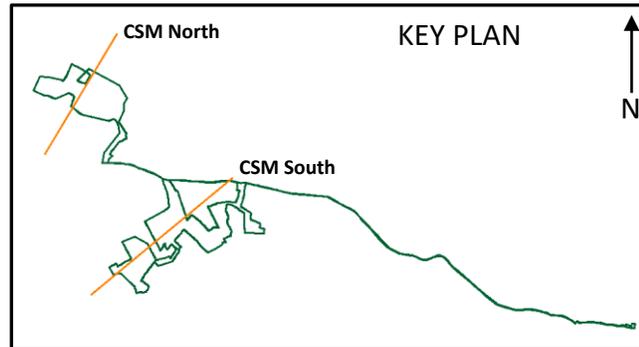
CSM - South

EIAR Site Boundary – Southern Cluster



LEGEND:

-  EXISTING GROUND LEVEL
-  GLACIAL TILL OVERBURDEN
-  STRONG HARD LIMESTONE BEDROCK WITH OCCASIONAL WEATHERED INTERVALS



CSM Notes:

- CSM = Conceptual Site Model. This is standard terminology used in hydrogeological assessments. The CSM is defined to demonstrate an understanding of the groundwater flow characteristics below each wind turbine cluster (Northern and Southern Clusters).
- The CSMs are orientated as illustrated on the Key Plan. Their orientation is intended to be perpendicular to groundwater flow and also orientated in the direction of upstream/downstream sensitive receptors, such as turloughs and water supply sources.
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