

APPENDIX 3**CLARIFICATION ON DREDGING**

1. This note is submitted following a discussion at the DCO hearing on Friday 25th September and in particular addresses the following queries raised by the ExA:
 - 1) *Does the extent of dredging alter depending on the form of quay construction?; and*
 - 2) *What is the relationship between the extent of dredging and the Breagh gas pipeline?*
2. This note is provided as further clarification to the points contained in Technical Note 12 (Appendix 4 to the Applicant's Response to Written Representations (Document 8.3)).
3. In response to query 1) the Applicant confirms that the extent of dredging riverward of the quay frontage is common to both forms of construction (open or solid). As advised during the DCO hearing the Applicant confirms there is a difference in the extent of dredging to the rear of the quay frontage; the open structure will require more dredging in this locality.
4. In response to query 2) the Applicant confirms that the Breagh pipeline does cross into the margins of the dredging footprint – passing under the top of the dredged slope rather than the depth of the main channel dredge. This is illustrated specifically in Figure 2 of Technical Note 12 (Appendix 4 to the Applicant's Response to Written Representations (Document 8.3)) and on drawing SK105 rev 4 (appended to that Technical Note). Figure 2 shows that the pipe line is approximately 29.6m below the existing river bed (crown of pipe identified at - 40mCD with the riverbed at -10.4mCD). With the dredging proposed in the DCO the riverbed will reduce by approximately 1m so that the pipeline would then be 28.6m below the existing river bed.
5. The proposed dredge level for the Northern Gateway project which is already permitted (HRO 2008 ref 1160) is -14.5mCD, i.e. a level below that which is proposed in this DCO. The Northern Gateway dredged level will reduce the distance between the riverbed and the Breagh pipe to approximately 25.5m.

Royal HaskoningDHV