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ESB Networks
Engineering Major Projects
One Dublin Airport Central
Dublin Airport
Cloghran
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Subject: Historic Cable Fluid Losses - Location 50

Recommendations from Preliminary Site Assessment

Dear Sir/Madam

We refer to our Preliminary Site Assessment (PSA) report on the historic loss of cable fluid in East Wall, Dublin 3 (Location 50) dated 30th March 2020. The PSA identified the following potential receptors and preliminary risk categories linked to the cable fluid loss¹:

River Tolka
 Moderate

River Tolka Estuary SPA
 Moderate

• Water mains - Low

Bedrock aquifer
 Low

With a view to confirming the above preliminary risk categories, we would make the following recommendations:

- Assess whether there is residual cable fluid (as LNAPL) in the cable trench at the leak
 location. This may be best achieved by excavating one or two slit trenches perpendicular
 to the line of the cable trench in close proximity to the leak location and recording field
 evidence of impact by cable fluid. If LNAPL is not observed, then consideration should be
 given to collecting soil samples from the slit trenches and submitting them for laboratory
 analysis for linear alkyl benzenes and potential breakdown products;
- Monitor water quality in the River Tolka and River Tolka Estuary down-gradient of the leak location for linear alkyl benzenes and potential breakdown products;
- Refine the preliminary risk assessment based on the findings of these tasks.

¹ The preliminary risk categories were determined by applying the risk assessment methodology outlined in CIRIA publication C552 (2001).





Depending on the findings of the above tasks, further intrusive investigation may be needed to adequately refine the Conceptual Site Model and risk assessment.

Yours sincerely for Geosyntec Consultants Ltd

Principal Environmental Engineer