

## Technical Study Requirements

Once the constraints on a property have been identified, detailed study may be required. Any technical study requirements would be identified in consultation with the Conservation Authority reviewing the proposal. The following supporting technical study requirements **may be** required to assess the impact of the project. As outlined in Section 28 (1)(b) and (c) of the *Conservation Authorities Act*, the purpose of these studies are to demonstrate the impact of the proposed development with respect to control of flooding, erosion, dynamic beaches and pollution, and to assess interference to wetlands and watercourses. The studies required will be determined and scoped through the pre-consultation based on the location of the site, site characteristics and complexity of the proposed work.

1. Channel Crossing Assessment/Design Review
2. Edge Management Plan
3. Erosion and Sediment Control Plans
4. Erosion Protection Work (valleyland and shoreline)
5. Floodline Delineation Study/Hydraulic Impact Assessment (with detailed topographic mapping and modelling)
6. Functional Servicing Plan
7. Geotechnical/Slope Stability Study
8. Grading Plans
9. Hydrologic Impact Study
10. Hydrogeological Assessment (Water Balance)
11. Landscaping/Site Rehabilitation Plans
12. Letter of Opinion that structure can withstand flood depth and velocity, certified by a professional engineer
13. Natural Channel Modification/Design
14. Scoped or Full Environmental Impact Study
15. Structural elevation and construction details
16. Stormwater Management Facility Design
17. Stormwater Management Study
18. Supporting architectural drawings
19. Topsoil Stripping Review
20. Watercourse Erosion Impact Analysis
  - a. Off-site impact assessment
  - b. Meander Belt and Fluvial Geomorphology assessment
21. Natural Feature and top of bank field verification and survey of verified features, hazards and development limits
22. Other