

行政摘要 Executive Summary

岩土評估

本報告已經進行了桌面研究、就現有的岩土信息進行研究和分析，以及進行實地調查，以研究該元朗南的地質和地下水狀況。本報告亦討論了受元朗南建議發展大綱圖下受影響的人造斜坡、天然斜坡、地基限制、可行的地基選擇和在設計上的考慮。

鑑於發展區內的現場土地勘測工作所面對的複雜性和局限性，以下活動將建議在詳細設計階段時進行，以獲取足夠的岩土信息進行地盤平整、基礎設施和基礎作業設計：

- 進行更多具體的土地勘測工作，以改進基岩面，並更精細地識別不良地質的特徵。
- 進行更多的地下水監測，以獲取具有代表性的地下水位，以進行地盤平整和基礎作業設計。
- 詳細設計階段時進行天然斜坡災害研究。
- 為因擬議發展及其所來的地盤平整工程而受影響的人造斜坡進行詳細穩定性評估、地盤平整工程對擬議發展及地盤平整工程影響/受影響的人造地物進行詳細穩定性評估，及進行相應的斜坡穩定措施設計。

Geotechnical Assessment

Desk study, interpretation and analysis of available geotechnical information together with site specific ground investigation information have been conducted in this study to investigate geological and groundwater condition of the site. Geotechnical assessment of existing man-made features to be affected, natural terrain hazard, foundation constraint, feasible foundation options and design consideration based on the Recommend Outline Development Plan are discussed in this report.

In view of the complex ground conditions and limitation of ground investigation (GI) information within the study area, the following activities shall be carried out in the detailed design stage to acquire sufficient geotechnical information for necessary detailed site formation, infrastructure and foundation design:

- More site specific GI shall be carried out to refine the engineering rockhead, and to identify the more refine extent of adverse geological features.
- More groundwater monitoring shall be carried out to acquire representative groundwater table for site formation and foundation design.
- Natural Terrain Hazard Study (NTHS) shall be carried out during the detailed design stage.
- Detailed stability assessment of man-made features affecting/to be affected by the proposed development and site formation works and corresponding design of slope stabilization measures.