

摘要

本計畫由農業部農村發展及水土保持署臺北分署主辦，旨在推動生態檢核提報審議與維護管理的落實，並促進民眾參與相關工作。透過分級生態檢核制度及生態團隊的專業建議，結合工程與生態理念，在各階段導入生態保育策略，實現防災、減災、避災與生態保育的整合目標。

本計畫團隊參與了 10 場工程審議會，協助完成 127 件工程的生態檢核分級及生態友善建議。提出的建議包括減少植被破壞、優化護岸設計、設置動物通道及逃脫設施、保護特有物種、降低對水域及植被的影響，以及合理配置固床工和防砂設施等。此外，計畫也辦理了 4 場第二級生態檢核通案輔導會議，為工程單位提供生態檢核表格修正與生態友善措施的具體建議。本年度共指定 35 件第一級及強化二級的生態檢核執行提報審議現勘，並將相關資料填寫後上傳管考系統。

生態監測結果顯示，不同工程案例對當地生態環境的影響具有差異性。部分工程區域的水生生物、水棲昆蟲及兩棲爬行類物種呈現較高的多樣性與豐富度，然而，也有部分工程區域被改造為人工設施，可能對生態系統造成一定影響。

為加強工程與生態保育的整合，計畫亦開展多場教育訓練活動，

通過案例分享與實務講解，提升工程人員對生態檢核及友善措施的理解。活動參與者的整體滿意度較高，但在生態友善措施的理解方面仍需進一步加強。未來，將優化教育訓練的內容與形式，促進跨領域溝通與協作，為工程與生態保育的協調發展提供有力支持。

此外，本計畫還舉辦了 4 場分區平台會議，針對特定工程或區域進行議題探討，提供工程與地方發展的參考建議。期望通過這些會議，進一步提升工程效益及生態保育成果，實現工程與生態共榮發展的目標。

關鍵詞：生態檢核、生態友善措施、民眾參與、生態監測

Abstract

This project, organized by the Taipei Branch of the Soil and Water Conservation Agency under the Ministry of Agriculture, aims to implement ecological review submissions, maintenance management, and public engagement initiatives. By leveraging a tiered ecological review system and professional recommendations from ecological teams, the project integrates engineering and ecological concepts to incorporate conservation strategies at all stages, achieving the goals of disaster prevention, mitigation, avoidance, and ecological preservation.

The project team participated in 10 engineering review meetings and assisted in completing ecological inspections and tier classifications for 127 engineering projects, along with providing eco-friendly suggestions. These recommendations included minimizing vegetation damage, optimizing revetment designs, installing animal passageways and escape facilities, protecting endemic species, reducing impacts on aquatic habitats and vegetation, and appropriately allocating grade control structures and sedimentation facilities. Additionally, the project conducted 4 secondary-tier ecological inspection advisory meetings, offering engineering teams specific suggestions for revising inspection forms and implementing eco-friendly measures. This year, a total of 35 first-tier and enhanced second-tier ecological inspections were executed, with the findings submitted to the management and control system after field review and data completion.

Ecological monitoring results indicate varied impacts of different engineering projects on the local environment. Some areas showed increased biodiversity and richness in aquatic organisms, aquatic insects,

and amphibians and reptiles. However, certain areas were converted into artificial structures, potentially impacting the ecosystem. The project will continue ecological monitoring to comprehensively evaluate the ecological effects of these projects.

To enhance the integration of engineering and ecological conservation, the project also conducted several educational training sessions, featuring case sharing and practical explanations to improve participants' understanding of ecological reviews and eco-friendly measures. While participants reported high overall satisfaction, further efforts are needed to strengthen their understanding of eco-friendly measures. In the future, the project plans to optimize the content and format of these training sessions, fostering interdisciplinary communication and collaboration to support the balanced development of engineering and ecological conservation.

Moreover, the project hosted four regional platform meetings focusing on specific engineering projects or areas to discuss relevant issues and provide reference suggestions for engineering and local development. These meetings aim to further enhance engineering efficiency and ecological conservation outcomes, achieving the goal of harmonious development between infrastructure and the environment.

Keywords: Ecological Assessment, Eco-friendly Measures, Public Participation, Ecological Monitoring.