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on wetlands. The book documents the background, methods, and results of the research and uses the information to draw conclusions about managing wetland ecosystems in urban areas. The project culminates in a set of comprehensive guidelines

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hydrology. While the focus of this research is regional in nature, its applications are broad. First, the research shows how to measure and assess the impact of urbanization on wetlands. Secondly, it presents scientific

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the scientific evaluation of the impact of landscape urbanization on wetland functions. It associates the source of impact (the landscape) with the sink (the wetland), relates findings to implications for future planning and management of watersheds

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and provides a model for future comprehensive investigations of wetland impacts from urbanization.

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Aldo Leopold, father of the "land ethic," once said, "The time has come for science to busy itself with the earth itself. The first step is to reconstruct a sample of what

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we had to begin with." The
concept he
expressed "restoration" is
defined in this comprehensive
new volume that examines the
prospects for repairing the
damage society has done to the
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project. The emerging specialties
of restoration and landscape
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This book delves into human-
induced and natural impacts on
coastal wetlands, intended or
otherwise, through a series of

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vignettes that elucidate the environmental insults and efforts at amelioration and remediation. The alteration, and subsequent restoration, of wetland habitats remain key issues among coastal scientists. These topics are introduced through case studies

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and pilot programs that are designed to better understand the best practices of trying to save what is left of these fragile ecosystems. Local approaches, as well as national and international efforts to restore the functionality of marsh systems are summarily

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approached and evaluated by their efficacy in producing resilient reclamations in terms of climate-smart habitat conservation. The outlook of this work is global in extent and local by intent. Included here in summarized form are professional

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opinions of experts in the field that investigate the crux of the matter, which proves to be human pressure on coastal wetland environments. Even though conservation and preservation of these delicate environmental systems may be

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coming at a later date, many multi-pronged approaches show promise through advances in education, litigation, and engineering to achieve sustainable coastal systems. The examples in this book are not only of interest to those working

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exclusively with coastal wetlands, but also to those working to protect the surrounding coastal areas of all types.

Recognizing the importance of wetland protection, the Bush administration in 1988 endorsed

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the goal of "no net loss" of wetlands. Specifically, it directed that filling of wetlands should be avoided, and minimized when it cannot be avoided. When filling is permitted, compensatory mitigation must be undertaken; that is, wetlands must be

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restored, created, enhanced, and, in exceptional cases, preserved, to replace the permitted loss of wetland area and function, such as water quality improvement within the watershed. After more than a dozen years, the national commitment to “no net loss”

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of wetlands has been evaluated. This new book explores the adequacy of science and technology for replacing wetland function and the effectiveness of the federal program of compensatory mitigation in accomplishing the nation's

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goal of clean water. It examines
the regulatory framework for
permitting wetland filling and
requiring mitigation, compares
the mitigation institutions that are
in use, and addresses the
problems that agencies face in
ensuring sustainability of

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mitigated wetlands over the long term. Gleaning lessons from the mixed results of mitigation efforts to date, the book offers 10 practical guidelines for establishing and monitoring mitigated wetlands. It also recommends that federal, state,

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and local agencies undertake specific institutional reforms. This book will be important to anyone seeking a comprehensive understanding of the net loss issue: policy makers, regulators, environmental scientists, educators, and wetland

Download Free Wetlands And Urbanization Implications For The Future advocates.

An intensive floristic evaluation of 17 Cleveland Metroparks (CMP) wetlands in the Rocky River Watershed (RRW) was undertaken to determine whether wetland size or anthropogenic

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disturbance in the surrounding landscape is a better predictor of wetland quality in this protected parkland. Wetland study sites were selected in three reservations, Hinckley, Mill Stream Run, and Rocky River. My research adds valuable

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information to the CMP wetland database and will contribute to its wetland management policies. Wetland quality was determined using the following floristic indices: species richness, % non-native species, % wetland species, mean coefficient of

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conservatism (C of C), floristic
quality assessment index (FQAI),
and an FQAI weighted with the
wetland indicator status (FQAI-
WIS). Wetland perimeter and area
were calculated from shape files
created by a 12-channel global
positioning system (GPS) receiver

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and data logger. The extent of anthropogenic disturbance was measured within 100 m, 250 m, 500 m, and 1000 m buffers surrounding the wetlands using a landscape development intensity (LDI) index. This LDI index was based on 1) the percentage of

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each land use and land cover (LULC) category found in the buffer zones and 2) LDI coefficients for each LULC category that reflect the amount of energy associated with human activities. Linear regressions ($p = 0.05$) were run to evaluate the

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relationship between the predictor variables (perimeter, area, perimeter/area ratio, and LDI) and the response variables (floristic indices). Results showed a significant positive correlation between % wetland species and perimeter. However, when the

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site with the largest perimeter was removed from the data set, this correlation no longer existed. Results also showed a significant negative correlation between 1) mean coefficient of conservatism and 250 m LDI, 2) FQAI and 250 m LDI, 3) FQAI and 500 m LDI,

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and 4) EQAI-WIS and 250 m LDI. While these regressions were significant, the R² range from 0.27 to 0.31 indicated weak correlations. Because the regressions between floristic wetland quality and LDI of 250 m and 500 m showed a weak fit, this

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study should be extended to include more wetlands in CMP and wetlands outside CMP in the RRW to determine if landscape disturbance in the 250 m and 500 m buffers are the most useful predictors of wetland quality in this region. In addition, other

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types of disturbance surrounding the study sites likely affect wetland quality and should be investigated. Impervious and compacted surfaces such as roads, bike paths, hiking trails, and bridle paths are common in CMP and many are close to or

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adjacent to the wetland sites within the 100 m buffer. These surfaces are often under the forest canopy and therefore not included in calculating the LDI index, but may play a role in determining wetland quality. Past land use, including agriculture

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and sandstone quarries, and present-day browsing by a large population of white-tailed deer may also influence current wetland quality.

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