

Introduction to Constructed Wetlands

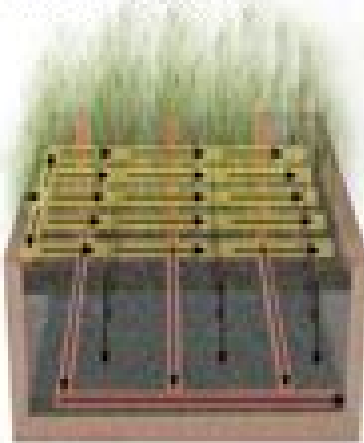
Wetland Types & Plant Species

Types of Constructed Wetlands?

Sub-Surface Flow (SSF)

- Enhanced removal of nitrogen and pathogens¹⁹
- Reduced odor, vectors, and contact with wastewater
- Space efficient

Vertical Sub-Surface Flow (vSSF)
Aerobic, nitrifying conditions

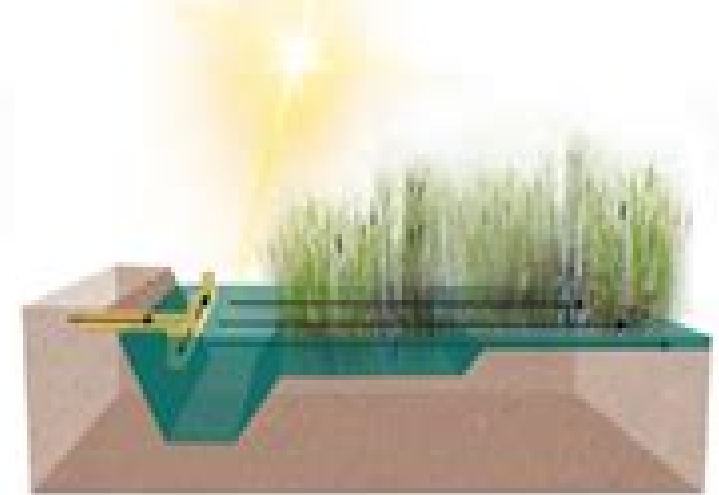


Horizontal Sub-Surface Flow (hSSF)
Anaerobic, denitrifying conditions



Free Water Surface (FWS)

- Vegetation distributes and reduces water current
- UV radiation kills off pathogens
- Most similar to natural wetlands
- Land intensive



A Selection of Plant Species for Constructed Wetlands in Idaho

Emergent Plants⁷

Broodleaf Cattail
Typha latifolia

Soft-stem Bulrush
Scheuchzeria
lactucampsoniana

Submerged Plants^{7,18}

Cook's Tail
Ceratophyllum demersum

Leafy Pondweed
Potamogeton foliosus

Floating Plants^{7,18}

Common duckweed
Lemna minor

Rocky Mountain Pond Lily
Najas lutea spp. *polytrichata*

Wetlands Explained

Arthur J. McComb, Jenny A. Davis



Wetlands Explained:

Wetlands Explained : Wetland Science, Policy, and Politics in America Center for Limnology William M. Lewis Jr. Professor and Director, Cooperative Institute for Research in Environmental Sciences University of Colorado, 2001-09-24 This book brings together in compact form a broad scientific and sociopolitical view of US wetlands This primer lays out the science and policy considerations to help in navigating this branch of science that is so central to conservation policy ecosystem science and wetland regulation It gives explanations of the attributes functions and values of our wetlands and shows how and why public attitudes toward wetlands have changed and the political legal and social conflicts that have developed from legislation intended to stem the rapid losses of wetlands The book describes the role of wetland science in facilitating the evolution of a rational and defensible system for regulating wetlands and will shed light on many of the problems and possibilities facing those who quest to protect and conserve our wetlands

Wetlands Explained William M. Lewis Jr., 2001-10-19 This book brings together in compact form a broad scientific and sociopolitical view of US wetlands This primer lays out the science and policy considerations to help in navigating this branch of science that is so central to conservation policy ecosystem science and wetland regulation It gives explanations of the attributes functions and values of our wetlands and shows how and why public attitudes toward wetlands have changed and the political legal and social conflicts that have developed from legislation intended to stem the rapid losses of wetlands The book describes the role of wetland science in facilitating the evolution of a rational and defensible system for regulating wetlands and will shed light on many of the problems and possibilities facing those who quest to protect and conserve our wetlands

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In Search of Swampland Ralph W. Tiner, 2005 In Search of Swampland introduces readers to the ecology and natural beauty of the wetlands one of our most important natural resources It provides an overview of wetland ecology with emphasis on factors important to wetland identification and recognition Designed for readers with little or no training in wetland science this heavily illustrated field guide serves as a valuable resource for the scientist or amateur naturalist Midwest

Biodiversity in Wetlands Brij Gopal, Wolfgang J. Junk, J. A. Davis, Jennifer Ann Davis, 2000

Final Environmental Impact Statement, Exxon Coal and Minerals Co. Zinc-copper Mine, Crandon, Wisconsin, 1986

Landscape-level Classification and

Characterization of Inland Wetlands in Southeast Lower Michigan David Herbert Merkey,2005 **The Verification of Landsat Data in the Geographical Analysis of Wetlands in West Tennessee** John Rehder,Dale Anthony Quattrochi,Dale Quattrochi,1978 *Wetlands Deskbook* Margaret N. Strand,Lowell M. Rothschild,2009 Wetlands law operates at the junction of private property rights and natural resource protection While wetlands provide rich and diverse species habitat protecting and promoting water quality the vast majority of U S wetlands are on private property Federal law addresses wetlands protection and development in a complex manner Those interested in protecting wetlands or developing wetland property must navigate challenging legal waters The Wetlands Deskbook organizes wetlands law for the novice and points out pitfalls to the experts This must have reference book combines insights from one of the nation s premier wetlands experts and provides all the background materials needed This Third Edition includes updates on the most recent court decisions agency policies and regulations An Interdisciplinary Analysis of the U.S. Fish and Wildlife Service Wetland Restoration Program ,1990 **Wetlands for the Future** Arthur J. McComb,Jenny A. Davis,1998 **Biological and Water Quality Survey, Environmental Impact Assessment, and Wetland Analysis of Wetlands Along the Proposed U.S. Route 62-State Route 14A Right-of-way in Stark, Mahoning, and Columbiana Counties, Ohio** ,1980 **California. Court of Appeal (6th Appellate District). Records and Briefs** California (State)., **California. Court of Appeal (4th Appellate District). Division 2. Records and Briefs** California (State)., New York Court of Appeals. Records and Briefs. New York (State)., *Environment Reporter* ,2007 **The Effects of Beaver Inhabitation and Anthropogenic Activity on Freshwater Wetland Plant Community Dynamics on Mount Desert Island, Maine, USA** Amanda M. Little,2005 *Coastal Zone Management* ,1990 **Book of Proceedings of the Putnam County Legislature** Putnam County (N.Y.). Legislature,1999 **Remote Sensing & GIS for Environmental Studies** Stefan Erasmi,Bernd Cyffka,Martin Kappas,2005

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