



Enforcement Procedure Overview



8420.0900 Subp. 3. **Restoration and Replacement orders.**

 B. Promptly upon being informed by the enforcement authority or the local government unit of the need, a soil and water conservation district staff person must inspect the site and prepare a plan in consultation with the local government unit and the enforcement authority for restoring the site to its pre-altered condition.



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SWCD Role in a violation

- Landowner contact for CDO or RPN
- Site visit- gather information/evidence
- Prepare Restoration/Replacement Order
- Monitor restoration/ replacement site.
- Certificate of Satisfactory Completion
- Track the cases.



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LGU Role in a violation

- Help Determine if site has permit for work or prior work done.
- Assist SWCD on Restoration/Replacement Orders
- Assist with gathering evidence
- Receive application from landowner for exemption, no-loss determinations, and replacement plans
- Track the cases



BWSR's Role in a violation

- Rule interpretation
- Bounce ideas back and forth (appropriate seed mixes)
- May contact more specialist BWSR staff to assist in difficult projects
- Assist SWCD/LGU in developing RO's
- · Assist in technical findings



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DNR Enforcement Role

- Landowner contact if Cease and Desist Orders
- Write Summary of information on violation
- Gather Evidence of the violation including contractors' info
- Issue Restoration and Replacement Order
- Grant Extensions
- Initiate enforcement action
- Follow and track all violation cases
- Issue RPN for after the fact cases. (not in progress)



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Resource Protection Notices

Used as a notice when activity is complete and no sign it will continue





Cease & Desist Orders

Used when equipment is on site, and it appears the activity will continue to impact wetlands.



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Data Collection

 $\underline{\mbox{Who}} - \mbox{landowner and/or responsible} \\ \mbox{party, contractor}$

• RO will go to all

What – type of disturbance or activity that occurred

• Useful for determining impact

<u>Why</u> – purpose of action? Were goals achieved? (i.e. some drainage is not effective...)



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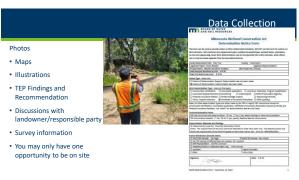
Data Collection

When – estimated time of activity occurrence

- Helpful in determining responsible party if ownership change has occurred
- Aerial photos/PID information
- Did the activity work?

<u>Where</u> – Property location (critical), but also landscape position, slope, etc.





Restoration Order Gives _______

- the Landowner Options
- Restoration is priority
 Apply for replacement
- Apply for replacement, exemption, no-loss
- Appeal- w/in 30 days + \$500 fee
- Court/Deed Restriction if no action is taken by landowner



After-the-fact replacement ratio must be twice the ratio otherwise required but may be reduced by LGU and DNR Enf.

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The RO

The RO

- Send RO to the Officer OR WREO ASAP Enforcement will serve the order (must be served in person or certified mail)
- We recommend to officers to use only certified mail
- Easy for everyone to track timeline
- MAKE SURE YOU SIGN YOUR COPY BEFORE SENDING IT TO CO OR WREO.
- Extensions are issued <u>only</u> by enforcement and if:
 - The landowner has a good reason for not getting it done
 - Has made some progress
 - Maybe weather related (heavy rains, early freeze)
 - Submitted application
 - Filed an Appeal



Is a formal Restoration Order Always Required?

- \bullet $\underline{\text{No}},$ voluntary restoration is allowed but should consider
 - Willingness to cooperate
 - Past history
 - Shortened timeframe for completion to allow for formal RO process
 - Some kind of written plan or agreement with deadlines
 - Communication and agreement with DNR Enforcement
 - No formal way to make other responsible parties liable



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Voluntary Restoration



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Certificate of Successful Restoration



RO Non-Compliance

The landowner does not comply with the RO. Now what?

- Enforcement will work with you!
 - CO Sends a Letter
 - CO Makes a Phone call
 - Deed restriction in some cases
 - Landowner Served a Criminal Citation
 - Court



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Contractors Responsibility

Prior to working in wetlands:

- Must have obtained signed statement from landowner
- Mailed a copy to the LGU
- They do not need to verify if the landowner has a permit or not. Just have the signed form and mailed it.

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	For Work	in Wetlands	or Public	Waters
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Appeals

- Landowner has 30 days to appeal Order
- RO must allow minimum of 30 days to comply with Order
- TEP, in consultation with DNR Enforcement, may allow longer to complete restoration.

Scenario- lake fringe fill

- What kind of information is relevant to collect?
 - Who, when, why?
 - Extent of fill and depth
 - Wetland boundary and type
 - · Impact amount
 - · Applicable exemptions?
 - Jurisdiction(s)?
- How should this be handled?

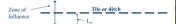
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Lateral Effect

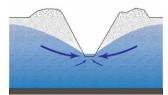
- Lateral Effect (L_e)
- The distance on each side of a tile or ditch in its longitudinal direction where the ditch or tile has an influence on the hydrology
- Measured perpendicular from midpoint of tile line or toe of ditch bank





Lateral Effect

- Factors influencing Lateral Effect
- Depth
- Soil Properties
 - Hydraulic conductivity
 - Drainable porosity
- Grade
- Impermeable Layer



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Effectively Drained

- A condition where ground or surface water has been removed by artificial means to the point that an area no longer meets the wetland hydrology criterion
- "Artificial means" is usually a ditch, tile or diversion
- The area will not support a dominance of hydrophytes but hydric soil will persist

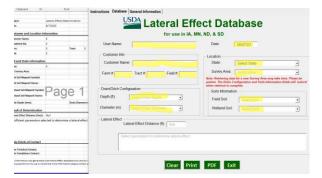
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Drainage Setback Tables

- wetland boundary to the tile line or ditch necessary to minimize adverse hydrologic impacts to adjacent

• Developed by NRCS using the van Schilfgaarde equation from the ND-Drain program • Setback distance is the minimum distance from the wetlands • Developed by NRCS to advise farmers







Drainage Setback Tables

- County-specific
- MN NRCS uses setback distance rather than lateral effect.
- Setback distance and lateral effect are not the same thing!!
- Setback tables not directly applicable for use in determining drainage impact.
- https://bwsr.state.mn.us/lateral-effect-drainage-setback

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How to use tables

- 1) Determine if hydrology indicators are present
- 2) Overlay drains on soil map
- 3) Determine average depth of drain per soil type
- 4) Determine setback distance for each soil type using NRCS table
- 5) Delineate setback corridor for drain
- 6) Identify wetlands within or adjacent to setback corridor
- 7) Consider all variables to determine potential wetland impact

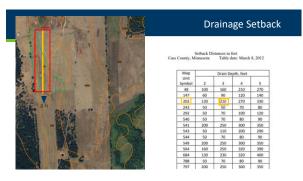
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142	50	20	90	10
142	60	80	100	121
266	80	110	110	111
186	130	210	280	39
202	130	200	260	321
218	110	150	170	19
241	50	50	20	80
292	50	70	100	12
346	60	70	90	10
428	50	60	80	90
502	60	90	100	121
532	120	180	230	29
533	50	20	80	90
540	50	70	80	90
541	200	250	100	15
543	50	110	210	29
544	50	30	81	90
546	50	20	80	90
549	200	250	100	35
564	160	150	330	40
607	110	170	220	26
615	90	150	200	29
621	50	70	100	121
625	170	220	260	25
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Drainage Setback

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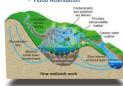




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Why restore wetlands?

- Restore lost functions:
 - Wildlife habitat
 - Water Quality
 - Flood Attenuation



- Wetland Banking
- CRP/RIM
- Enforcement



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Setting function-based restoration goals and performance standards.

Establishing Goals & Measurable Outcomes:

- Restore natural hydrology
- Reestablish native plant community to site
- Performance Standards (banking)measurable attributes to determine if restoration goals are met

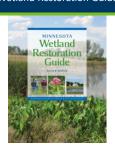


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MN Wetland Restoration Guide

MN Wetland Restoration Guide:

- Planning
- Site Assessment
- Design and Construction
- · Vegetation establishment
- Site Management & Monitoring



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General considerations for wetland restoration

- Identifying and selecting projects
 - Restoration over creation
- Consider potential complications from degraded sites
- Adjacent land uses (present and future?)
- Changes to adjacent landowners?
- · Location of area ditches
 - · Public or private?
 - Drainage Law?
- Understand soil conditions of site (permeability, chemistry)
- Water quality

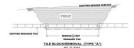


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Technical Guidance Sheets

- Supplements to the MN Wetland Restoration Guide
- https://bwsr.state.mn.us/guidancedocuments-tools-and-otherresources
 - Vegetation Establishment
 - Restoration Design and Construction
 - Managing Restoration Sites





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Hydrologic design considerations Restoring natural hydrology: • Hydrology • Precipitation, evapotranspiration, surface and groundwater inflow & outflow • Hydraulics- how water flows • Unidirectional, bi-directional • Landscape position • Surface shape

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Outlet structures
 Location and size

Vegetation establishment considerations

General strategies:

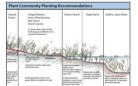
- Strategic site preparation
 - Planting elevation, water depth, soil tyr
 - Flooding frequency, duration
- Make landscape connections
- Match plant communities to site
- · Restore and maintain plant diversity
 - · Work with ecological variability
- Selecting seed mixes and plants
 - · Species tolerance
- Manage Invasive species throughout entire site



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Developing a vegetation plan

- Consider topography and elevations to promote natural hydroperiods for plant species and communities
- Native Vegetation Establishment and Enhancement Guidelines
 - Comprehensive Guidebook



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Selecting seed mixes and plants

- State Seed Mixes lists
- Grassland mixes (NW, SW, SE)
- Woodland mixes (S&W, Central, NE, NW)
- Wetland mixes (NE, South & West)

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Managing Restoration Sites

- <u>Technical Guidance Documents</u>:
 - · Herbicide application
 - Prescribed burning
 - Mowing, grazing & haying
 - Water level management (flooding & drawdown)
 - · Plant Care
 - Inspecting and maintaining outlet structures
 - Animal Control



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Functional Assessment Methods

- WI/MN Wetland Rapid Assessment Method
 - Rapid method for assessing wetland functions based on functional capacity and value.
- W/AM Wardand Rogid Assessment

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- Floristic Quality Assessment
 - Vegetation based ecological condition assessment method



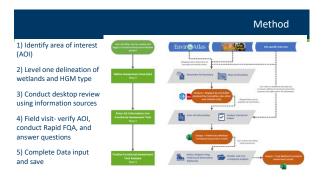


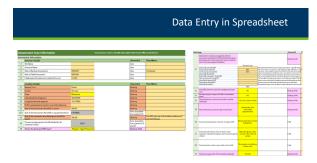
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WI/MN Wetland Rapid Assessment Method

- Developed by Committee of MN, Wisconsin and Federal Agencies
 - Released for public comment in 2024
- Tool assesses 17 wetland functions under five categories: hydrologic, water quality, ecological, climate, anthropogenic

	Surface Water Attenuation			
Hydrology	Surface Water Supply			
	Groundwater Recharge			
	Nitrate Removal			
	Phosphorus Retention			
Water Quality	Sediment and Pollutant Retention			
	Shoreline Stabilization			
	Temperature Maintenance			
	Native Plant Habitat			
Ecological	Wildlife Habitat			
	Fish Habitat			
Climate	Carbon Sequestration			
	Historic or Cultural Uses			
	Scientific or Educational Importance			
Anthropogenio	Commercial Uses			
	Recreational Uses			
	Scenic Beauty			





					Results Summary
Functions Organized	by Ranking				
	Higher	Moderate	Lower	Not Applicable	
	Surface Water Supply (SWS	(Mitate Removal (NF)	Groundvater Recharge (GR		
	Thermoregulation (TR)	Sedment and Pollutant Retention (SPR)	Commercial Uses (CU)		
	Native Plant Habitat (NP)	Shoreline Stabilization (SS)			
	Historic or Cultural Uses (HCU)	Carbon Sequestration (CS)			
	Scientific or Educational Importance (SEI)				
	Recreational Uses (RU)				
	Scenic Beauty (SB)				

Floristic Quality Assessment

- Vegetation condition assessment to measure the quality of a native plant community
- Developed by the MN Pollution Control Agency
 - 2007, Statewide C-values
 - Efforts to regionalize C-values underway
- Intended to compliment functional assessments such as MNRAM



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FQA Key Concepts

- Key concepts:
- Species conservatism- tolerance to degradation
 - Coefficients of Conservatism (C-value)
- Floristic Quality Index
 - Species richness and mean C-values
- Sampling methods
 - Rapid FQA
 - Full Method



Fraitie Parkland

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FQA Key Concepts

- Coefficients of Conservatism
 - Numeric rating of an individual species fidelity in relationship to disturbance
 - C-values range from 0-10
 - 0= most tolerant, found in wide variety of plant communities
 - 10= least tolerant, found in narrow range of plant communities
 - Non-native species = 0
 - Reed Canary Grass (introduced) C=0
 - Ostrich Fern (FAC, NCNE) C=5
 - Pink lady slipper C=9



Sampling Methods Overview

- FQA Sampling Protocol:
 - Man Δssessment Δrea
 - Determine Plant community types
 - Conduct timed meander (rapid) or plot-based sampling
 - Conduct shoreland sampling (if necessary)
 - Make Areal cover estimations
 - Calculations

• Full FQA -Plot-based sampling



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MINNESOTA WETLAND PROFESSIONAL CERTIFICATION PROGRAM CORE CURRICULUM

- Critical Definitions
- Classification Systems & Functions
- Wetland Delineation
 - Vegetation hydrophyte, Dominance
 - Soil hydric indicators
- Wetland Conservation Act
 - Purpose & Scope
 - Application Procedures & Noticing Requirements
 - Basic Decisions
 - Boundary/Type
 - Exemptions

 - Wetland Banking
 - · Enforcement & Appeals



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What is a Wetland?

Definition: Those areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted to life in saturated





Hydrology + Vegetation + Soil = Wetland

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3-Parameter/Indicator Approach

- 1. Soils Historic conditions, may not reflect current
- 2. Hydrology –Current condition, but heavily influenced by recent climate conditions
- 3. Vegetation Somewhere between



The 87 Manual requires 3 parameters because no one source typically gives the answer in all situations

Wetland Functions & Values

Wetland Functions: in scientific assessments means natural processes



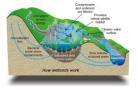
Wetland Value: wetland goods and services providing monetary or social welfare benefit.



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Wetland Functions

- Act as a natural "filter" to maintain water quality
- Facilitates infiltration recharging groundwater
- Stabilize base flow
- Decreases fluid velocity during high flow events which decreases turbidity
- Storm water retention (i.e. storage)
- Provides habitat
- Shoreline protection



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Land Resource Regions

• Regions dictate which indicators are used and how they are used







Wetland Delineation Types

ROUTINE

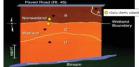
- Level 1 Onsite Inspection Unnecessary
- Level 2 Onsite Inspection Necessary
- Level 3 Combination of Levels 1 and 2



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Sampling Location Should Be Representative

- Representative of <u>soil</u> changes (from upland to wetland)
- Representative of <u>vegetation</u> changes
- Representative of <u>hydrology</u> indicator <u>changes</u>
- $\bullet \ \mbox{Representative of} \ \underline{\mbox{landscape}} \ \mbox{changes}$



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Circular 39 Circular 39 Eggers & Reed Seasonally Flooded Basins Flooded Basins

Research Data Sources

- Aerial Photos (current and historic)
- Soil map (Web Soil Survey)
- Topographic\LiDAR
- NWI Map (updated version in MN)
- DNR Protected Waters Map



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Critical Definitions

- Wetlands
- •Growing Season
- Atypical Situations
- Problem Areas
- Normal Circumstances

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It's all about the documentation!





Hydrology

..."inundated or saturated by surface or ground water at a <u>frequency and duration</u>"

- Technical standard of 14 or more consecutive days of flooding or ponding;
- Water table 12 in. or less below soil surface;





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Hydrology Indicators

Evidence that there is continuing hydrology and confirms that an episode of inundation/saturation occurred recently.

Wetland hydrology indicators are divided into two categories:

<u>Primary</u> – provide <u>stand-alone</u> evidence of a

<u>Primary</u> – provide <u>stand-alone</u> evidence of a current or recent hydrologic event; and <u>Secondary</u> – provide evidence of recent hydrology when supported by one or more <u>other</u> hydrology indicators.



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Hydrology Indicator Groups



Group A – direct observation of water



Group B – evidence of flooding/ponding



Group C – evidence of current or recent



Group D – Landscape and veg. characteristics that indicate contemporary wetland conditions.

Soil

- Basics of Soil
 - Soil formation
 - Landscape position
- Soil Properties
 - Texture
 - TEXTUTE
 - Color
- Hydric soil development
- Web Soil Survey
 - Interpreting soil reports



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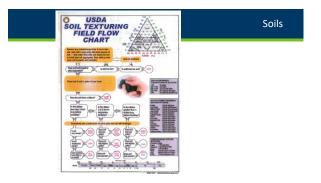
Hydric soil indicators

• Common soil indicators

• All

• Fine
• Sandy

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To better interpret the data collected or observation made in the proper context. To better interpret the data collected or observation made in the proper context.

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MN Wetland Regulatory Programs

- · Public Waters Permit Program
- Wetland Conservation Act (WCA)
- · Clean Water Act Section 404
- Section 401 of the Clean Water Act (401)
- Swampbuster provisions of the Food Security Act (FSA)







BOARD OF WATER AND SOIL RESOURCES

US Army Corps of Engineers

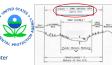
Public Waters Permit Program · Regulates: changes to "course, current or cross-section" • Administered by: DNR – Area Hydrologists M) DNR • Authorities: M.S. 103G; M.R. Chapter 6115 • Jurisdictional boundary: "Ordinary High-Water Level" Review standards: Public interest; reasonable/practical, Riparian rights, Availability of feasible & prudent alternatives, Compensatory mitigation • Enforcement: DNR Conservation Officers; cease & desist, restoration

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Application: on-line via "MPARS"

Clean Water Act Section 404

- Regulates: Discharges of dredged or fill material, including redeposit
- . Administered by: U.S. Army Corps of Engineers St. Paul District
- Authorities: 33 U.S.C. §1251; 33 CFR Parts 320-332; 40 CFR Part 230
- Jurisdictional boundary: 1987 Corps of Engineers Wetland
- Review Standards: Sequencing, public interest, adequate
- compensatory mitigation
- Appeals: COE administrative appeal
- Enforcement: COE and USEPA; administrative orders
- Application: Joint Application Form for Activities Affecting Water



US Army Corps of Engineers

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Wetland Conservation Act

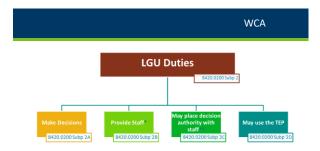
- · Regulates: draining, filling, some excavation
- Administered by: Local Government Units, SWCDs, Watershed Districts
- · Oversight by: MN Board of Water and Soil Resources
- Authorities: M.S. 103A, 103B, 103G; M.R. Chapter 8420
- Jurisdictional boundary: 1987 Corps of Engineers Wetland Delineation Manual
- Review standards: Avoid, minimize, replace (sequencing)
- Enforcement: DNR Conservation Officers; cease & desist, restoration orders
- Application: Joint Application Form for Activities Affecting Water Resources in Minnesota



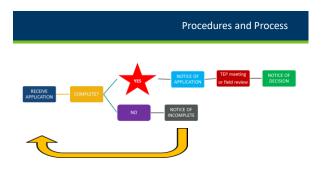












Overview of Wetland Vegetation

- Hydrophytic
- Hydrophytic Vegetation Definition Vegetation Indicators
- Define Hydrophyte
- What makes a plant a hydrophyte Determine why matters
- · Field indicators Indicator status
- Dominance
- Determining
 Hydrophytic Plant Community
 - · Rapid Test
 - Dominance Test (50/20 Rule)
 - Prevalence Index
 - Morphological Adaptations

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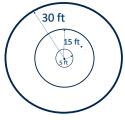
Determining Hydrophytic Vegetation

The procedure for using hydrophytic vegetation indicators is as follows:

- 1. Apply Indicator 1 (Rapid Test for Hydrophytic Vegetation).
- 2. Apply Indicator 2 (Dominance Test).
- 3. Apply Indicator 3 (Prevalence Index). This and the following step assume that at least one indicator of hydric soil and one primary or two secondary indicators of wetland hydrology are present.
- 4. Apply Indicator 4 (Morphological Adaptations).

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Vegetation Sampling



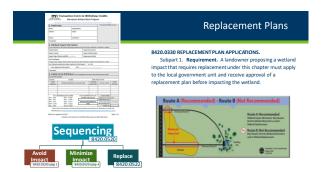


5 ft Herbaceous; 15 ft Shrub/Sapling; 30 ft Tree

Application Types and Procedures

Boundary/Type No-Loss Exemption Sequencing Replacement Plan Banking





Overview of Wetland Banking

- Purpose of Wetland Banking
- Types of Wetland Banks
- Actions Eligible for Credit
- Establishing a Wetland Bank
- Certification and deposit of credits
- · Withdrawals and transfers
- Replacement for Public Road Projects

Banking-related topics covered in other sections:

- Restoration Construction Standards
- Monitoring and Corrective Actions



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Overview of Wetland Restoration

- General considerations for successful restoration
 - MN Restoration Guide
- Restoring natural hydrology
- Hydrogeomorphology
 - Landscape position
 - Hydrology
 - hydraulics

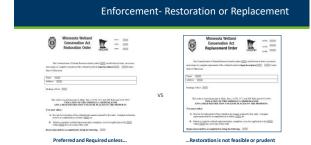
- Restoration techniques
 - Filling ditches
 - Removing drain tile
 - Rerouting & pump removal
- Establishing vegetation
- Monitoring
 - Timelines
 - Roles and responsibilities
- Interpreting hydrology and vegetation monitoring data

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Overview of Wetland Bank Monitoring

- Monitoring process
 - Construction Certification
 - Duration of monitoring
 - Deposit of Credits
- Maintenance responsibilities
 - Monitoring reports
 - Timeline
- Reports
 Corrective Actions
- A Constraint
- Hydrology Monitoring
- Performance standards
- Vegetation Monitoring
- Performance standards





	Wetland Delineation Repo
	Viking Boulevard NE Site
Field Notes	Wednad Delinention Report
Basic Report Components	TABLE OF CONTENTS THE PROPERTY STANDARY 1 2 OVERVIEW 3
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Field Review	4.4 Taquer Se Wedool Boundary and Introductional Descripation 6 6. CERTIFICATION OF DELINEATION 7
Non-Routine Wetland Delineations	PROVINGS 1. To Location 2. Parising Combines 3. Proposit Virtuals Sensing 4. And Durny 4. DOS Palls Wireless Exempt 6. DOS Palls Wireless 6. Palls Bell Bell Depoply Commit
	APPENDICES A. Jose Application From the Arthology Affecting White Resources in Minneson 2. Welcard Collections for Security C. Precipitions form

inal Thoughts

Questions (last chance!)



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Summary Quiz



- 1) Sometimes referred to as the "60 day Rule", this Minnesota State Statute determines the agency action deadline for all WCA LGUs to make a decision on a wetland application.
- A) MN Statute 8420
- B) MN Statute 15.99
- C) MN Statute 404
- D) MN Statute 103G

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- 2) An exemption is:
- a) An activity that no matter how large of an impact requires replacement.
- b) A regulated activity that does not require replacement.
- c) An activity that requires an application everywhere in the State.
- d) An activity occurring in a calcareous fen.
- 3) During the review of a replacement plan application, LGUs must use this process to determine whether a project avoids, minimizes then replaces wetland impacts:
- a) No-loss criteria
- b) Sequencing
- c) Exemption standards
- d) Replacement order

4) Per Rule, pre-settlement wetlands are wetlands or public water wetlands that: a) Have been constructed since humans developed the area. b) Existed at the time of Minnesota statehood in 1888. c) Natural wetlands that have been altered since statehood. d) Are high quality wetlands where no impacts can occur.	5) Bank Service Areas are factored into what aspect of implementing the Wetland Conservation Act? a) Calculating de minimis b) Wetland replacement siting c) Determining the LGU d) Prioritizing wetland restoration projects	
6) A project to restore a partially drained wetland may qualify as under the wetland banking program: a) Action eligible for credit b) Compensation planning framework c) Local Government road wetland replacement project d) Full application	7) Who certifies construction of a wetland bank project? a) BWSR b) Army Corps c) LGU d) SWCD	
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8) Which of the following are considerations for wetland restoration projects? a) Adjacent land uses b) Location of existing drainage ditches c) Drainage law implications of restoring ditches d) All of the above	9) Which of following is a vegetation based ecological condition assessment method for wetlands: a) MNRAM b) Cowardin c) Floristic Quality Assessment d) Eggers & Reed	
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16) What is the definition of depleted
matrix? Describe what it looks like.

Value 4 or More



17) A project is located within the 50-80% pre-settlement area outside of shoreland. The landowner proposes to excavate in a semi-permanently flooded wetland. What is the maximum de minimis allowed for this activity?

- a. 10,890 square feetb. 4,356 square feetc. 400 square feetd. 100 square feet

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18) When administering the Wetland
Conservation Act, duties of the Local
Government Unit include:

- a) Providing knowledgeable and trained staff.
- b) Making recommendations to TEP on WCA applications.
 c) Writing the WCA Rule.
 d) Maintaining WCA records for 5 years.

19) Which of the following is the least important when conducting hydrology monitoring with shallow wells for determining if the wetland hydrology technical standard is met for an area?

- a) Growing season.
- b) Depth to restrictive soil layer.
- c) "A" horizon thickness.
- d) Well installation methodology.

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20) Which of the following tests i
used for a wetland hydrology
indicator?

- a)50/20 dominance
- b)FAC Neutral
- c) Prevalence Index
- d)Bulk density

21) When should the Prevalence Index be calculated?

- When dominant vegetation (as determined by the 50/20 rule) is determined to be hydrophytic.
- When non-dominant vegetation (as determined by the 50/20 rule) is determined to be hydrophytic. b)
- c) When hydric soils and wetland hydrology indicators are absent and the wetland determination is made by vegetation alone.
- When wetland plant communities fail the dominance test, but have indicators of hydric soils and wetland hydrology

		getation sampling,	23) Which of the following does <u>not</u> qualify for
Herb Strata	Shrub Strata	Tree Strata	a no-loss? a) Activity that will not impact the wetland.
Species A – 459 Species B – 359 Species C – 309		Species A – 10% Species B – 5%	b) Excavation limited to sediment removal in wetlands that are utilized as a stormwater
Species D – 309	6		basin. c) Excavation in wetlands that removes sediment which alters the original cross section
b) 6 c) 7 d) 8			of the wetland. d) Seasonal water level management activities.
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24. A primary function-based goal of
wetland restoration project should
include:

a) Build structures to impound water to create ponding.

b) Reestablish a plant community that will thrive no matter the conditions.

- c) Create open water habitat.
- d) Restore the site to the natural hydrology.

25. When using the "Guidance for Offsite Hydrology", Area A shows what wetland signature?

- a) Altered Pattern (AP)
- b) Upland (UP)
- c) Normal vegetative cover (NSS)
- d) Drowned out (DO)



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MWPCP Exam Instructions

- Show State-issued ID
- Fill out name and date
- Do not open test until instructed (at start time)
- Circle the **one** <u>best</u> answer
- 2 hours to complete
- No cells phones allowed on desk
- Use calculators provided
- Return test and all materials, pick up ID
- Results in ~4 weeks