

DATCP Spring Partner Meetings



Conservation Engineering Update

Matt Woodrow

CONSERVATION ENGINEERING SECTION – BUREAU OF LAND & WATER RESOURCES

April 2024

DATCP IS HIRING!!

NRCS Collaboration Project Positions

1. Hydrologic & Hydraulic (H&H) Engineer
 - Applications were due **April 1**
 - wj.wi.gov
 - Search: H&H Engineer
2. Environmental Specialist
 - Posted mid- to end of April

DATCP

3. Field Services Unit Leader
 - Working supervisor
 - Environmental Specialists
 - Interviews completed

Discussion Item: Possible Position

- Soil Scientist?
 - Perform wetland determinations - WEPS



CONSERVATION ENGINEERING PRACTITIONER CERTIFICATION (CERTIFICATION)

1. WHAT IS IT?
2. CHANGES



CONSERVATION ENGINEERING PRACTITIONER CERTIFICATION (CERTIFICATION)

Certification: What is it?

- Unique system to WI
- Modeled after NRCS JAA
- Non-engineers can approve conservation projects

DATCP Conservation Engineering Practitioner Certification for: **Blank Application - Name:**

Name: Blank Application - Name: Title: Applicant Title: Location: Madison
 ENG Certified by (signature): _____ Title: _____ Date: _____
 Supervisor Concurrence by (signature): _____ Title: _____ Date: _____

ENGINEERING PRACTITIONER CERTIFICATION ACKNOWLEDGEMENT AND ETHICS STATEMENT

As the person being granted Conservation Engineering Practitioner Certification, I acknowledge and agree that this Certification: (1) is subject to the requirements of s. 50.46, Wis. Admin. Code, (2) does not authorize me to perform work requiring Engineering Job Approval Authority that is separately granted by NRCS area engineering staff, (3) will be utilized to perform engineering work within the scope of this certification and under the technical supervision of DATCP engineering staff, (4) authorizes me to provide engineering assistance in the scope of my employment and in accordance with state statutes and administrative rules including ATCP 50, Wis. Admin. Code, DATCP policies, and the Wisconsin NRCS Field Office Technical Guide, and (5) is valid for three years and automatically renews unless any of the following conditions occur: (a) I am not employed by an entity with a supervisor who has signed this certification, (b) I fail to meet the education requirements, (c) I fail to provide or update information required for certification under ATCP 50.46(3)(b), Wis. Admin. Code, or (d) I indicate an intent to surrender this certification.

In exercising Conservation Engineering Practitioner Certification as shown below, I agree that I will (1) utilize my assigned technical approval authority only for work that I am competent and qualified to perform; (2) consider economic, social, cultural and environmental impacts before a conservation practice is recommended, and (3) will seek assistance from others when complicating factors warrant.

Employee signature: _____ Date: _____

This Certification becomes effective when signed by all parties.

Conservation Practice	Lead Discipline	Controlling Factor	Units	Job Class					MAX APPR AUTHORITY			CPS_ID
				I	II	III	IV	V	Planning	Design	Const	
000 Any practice	CED-SCE	Hazard potential as defined in NEM 520.21 (1)	Class	---	---	---	---	Low	V	V	V	000-01
	CED-SCE	Alters the visual resources of beaches and shorelines on the Great Lakes	N/A	---	---	---	---	None	V	V	V	000-02
	CED-SCE	Embankment over active fault	N/A	None	None	None	None	None	V	V	V	000-03
560 Access Road	Eng	Surfacing material	Type	earth	stone	concrete	asphalt	All	---	---	---	560-01
	Eng	Length	Feet	1,500	3,000	5,000	10,000	All	---	---	---	560-02
309 Agrichemical Handling Facility	Eng	Storage volume	Gallons	500	1,000	2,000	5,000	All	---	---	---	309-01



CONSERVATION ENGINEERING PRACTITIONER CERTIFICATION (CERTIFICATION)

Form Changes

- NRCS Changed JAA
- Job classes level controlling factor measures changed

Conservation Practice	Lead Discipline	Controlling Factor	Units	Job Class					MAX APPR AUTHORITY		
				I	II	III	IV	V	Planning	Design	Const
410 Grade Stabilization Structure	Eng	Chute spillway (2) - concrete block or rock riprap - net drop	Feet	4	6	8	10	12	---	---	---
	Eng	Chute spillway (2) - concrete block or rock riprap - design capacity	CFS	50	100	150	200	300	---	---	---
	Eng	Geotextile reinforced vegetated chute - net drop	Feet	3	4	5	6	8	---	---	---
	Eng	Geotextile reinforced vegetated chute - design capacity	CFS	10	25	50	100	200	---	---	---
	Eng	Side inlets (to drainage ditch) - net drop	Feet	6	8	10	12	16	---	---	---
	Eng	Side inlets (to drainage ditch) - pipe diameter	Inches	12	18	24	36	48	---	---	---
412 Grassed Waterway	Eng	Drainage area	Acres	50	200	600	1,300	All	---	---	---

- DATCP Certification form will also be updated for consistency.



CONSERVATION ENGINEERING PRACTITIONER CERTIFICATION (CERTIFICATION)

Certification: Discussion Item

How to get county staff interested in becoming part of engineering certification?

- What are barriers or reasons for not wanting to be in program?
- What can DATCP do to facilitate interest?



CONSERVATION ENGINEERING

~ TRAINING & RESOURCES ~

1. CORE COMPETENCIES

2. RESOURCES:

- Conservation Practice Workflow/Checklists
- Resources Library

3. UPCOMING STATEWIDE TRAININGS



TRAINING & RESOURCES

Core Competency Trainings

- 1) Conservation Engineering 101
- 2) Hydrology
- 3) Hydraulics
- 4) Resource Concern Identification

Discussion Item:

What should be the next core topic(s) we develop?



TRAINING & RESOURCES

Conservation Practice Workflows/Checklists

1. Grassed Waterway
2. Diversions
3. Lined Waterways
4. Grade Stabilization Structures
5. Open Channel: Two-stage ditch
6. Streambank & Shoreline Protection

Discussion Item:

Thoughts on what should be the next practice(s) we develop?

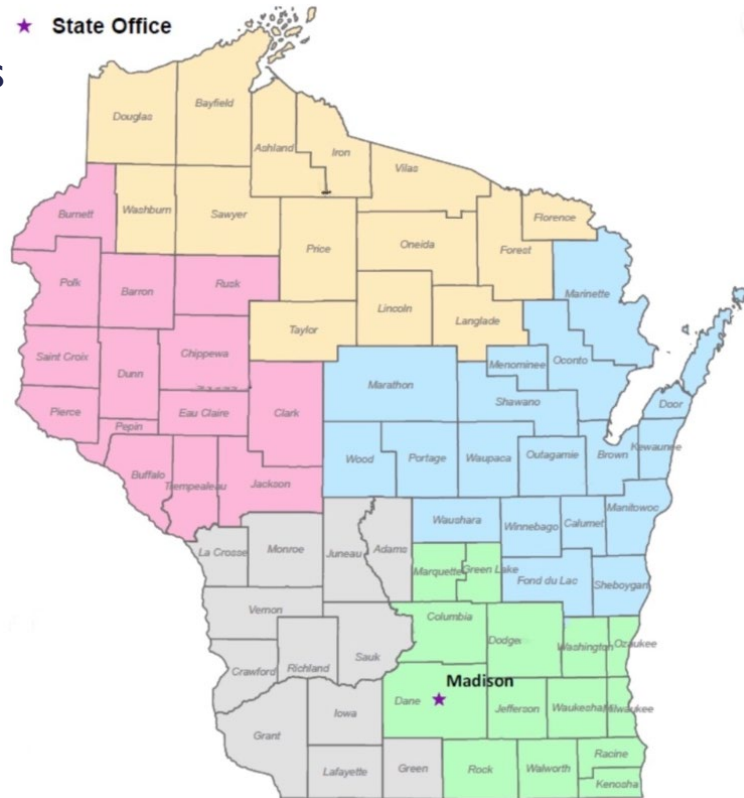


TRAINING & RESOURCES

UPCOMING STATEWIDE TRAININGS

Hydrologic Restoration

- Webinar
- Field Visits



DATCP 01-Verification of Depth to Bedrock

- In support of NR 151.075 Silurian Bedrock Performance Standard
- Cost-shareable through ATCP 50 (15 Silurian counties)



TRAINING & RESOURCES

Discussion Items



Idea

- Technical training plans for new conservation staff?
- Any other training ideas/suggestions?



CONSERVATION ENGINEERING

~ OTHER MISC. ITEMS ~

1. PROFESSIONAL DEVELOPMENT HOURS (PDHs)
2. ENGINEERING RESERVE FUND



REMINDER:

PROFESSIONAL DEVELOPMENT HOURS (PDHs)

- 30 PDHs every three years
 - Current cycle January 1, 2022 to **December 31, 2024**
 - Pro-rated if entering program mid-cycle
- What counts?
 - Trainings need to be technical and relate to planning, design, or construction of practices on the Job Approval/Certification form
 - One-on-one training
 - Planned classroom setting trainings
 - Training provided by conservation partners (UW-Extension, WI Land + Water, DNR, etc.)
 - **Annual tech updates**
 - At least 50 minutes to qualify
 - Self-documenting →

Job Approval Authority Professional Development Hour (PDH) Record					
Name: _____					
Date of Training	Title of Training Session / Agenda Item	Trainer / Type of Training (classroom, webinar, etc.)	Sponsor	# of PDHs	Comments



DATCP ENGINEERING RESERVE FUND

- \$300,000 for engineered conservation projects
 - Prioritize farm discharge projects
 - Also for projects that address soil erosion and/or nutrients
- Applications were due Friday, March 29
 - Received ~\$250,000 in requests



Questions?



Matt Woodrow

Conservation Engineering Section – Bureau of Land & Water Resources

(920) 427-8505 – matthew.woodrow@wisconsin.gov

April 2024