



The Washington Tool for Online Ratings: Getting into the WATOR



DEPARTMENT OF
ECOLOGY
State of Washington

Neil Molstad, Wetland Specialist, NWRO


SWS PNW Chapter Conference November 3, 2022

What is WATOR?

- WATOR = WASHINGTON Tool for Online Rating
- Developed by Ecology – It lives online.



Wetlands Rating Tool

 [Home](#)

Why was WATOR developed?

- The Washington State Wetland Rating System is used to evaluate wetland functions in most of Washington State.
- Access to various web-based resources is needed to properly use the Rating System.
- The Rating System also requires supporting figures.
- WATOR is a “one-stop shop” that contains everything needed to produce a complete wetland rating.
- Ecology is not requiring the use of WATOR, but other entities (local jurisdictions) might.

WATOR Development Timeline

- 2018: Ecology received an EPA grant to develop WATOR. We reached out to find interested testers.
- 2020 – 2022: The Test environment of WATOR has been available, and testing and refinement of the tool has occurred.
- Late 2022 – Early 2023: The production version of WATOR will be available to the public.
- Although the production version of WATOR is not available yet, you can request access to the WATOR Test environment.

How do I access WATOR?

- WATOR is accessed through the SAW (Secure Access Washington) portal:



https://secureaccess.wa.gov/myAccess/saw/select.do

WELCOME
to your login for Washington state.

SecureAccess Washington

SIGN UP! GET HELP TIPS ON

LOGIN

USERNAME

PASSWORD

SUBMIT

[Forgot your username?](#) | [Forgot your password?](#)

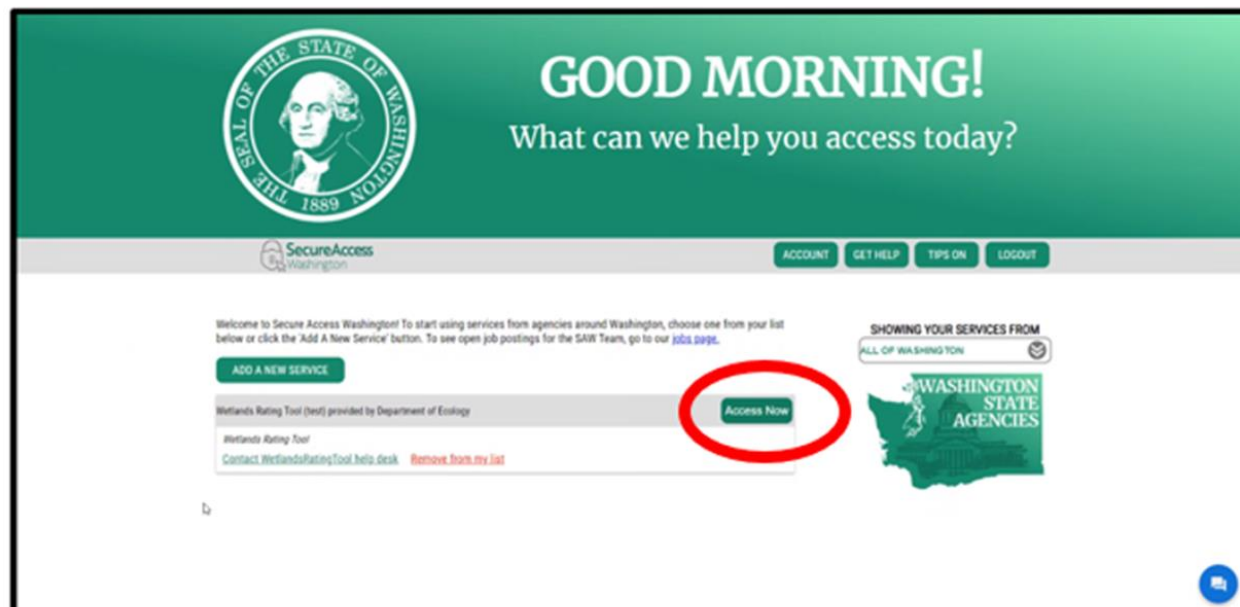
Tweets from @SecureAccessWA Follow on Twitter

SecureAccess Washington @SecureAccessWA · 22h
There were some reported login issues, these have been resolved. Please let us know if you are experiencing any issues with login.
secureaccess.wa.gov/public/saw/pub...

SecureAccess Washington @SecureAccessWA · Sep 15
Due to scheduled maintenance on SecureAccess Washington, the site will be down and users will not be able to log in between 5:30-6:15 a.m. on Tuesday, Sept. 27.

From SAW to WATOR

- Accessing WATOR through SAW is a multi-step process:
 - If you don't already have a SAW account, you will need to sign up for one.
 - Once you have a SAW account, you will need to find and specifically request approval for access to the WATOR service.
 - Once approved, you can then access the WATOR tool:



The Organizational Structure of WATOR

- WATOR uses an Organizational structure, which basically acts as a shared filing system.
- All the information within an Organization's "file" will be accessible to all members of that Organization, but are NOT accessible to other WATOR users outside of the Organization.
- Ecology Senior Wetland Scientist Amy Yahnke is WATOR's Administrator. She approves all Organization applications.

Organizations in WATOR

- Before you can use WATOR, you must either join an existing Organization or add a new Organization:



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Wetlands Rating Tool (Organization) Test

Home

Welcome: **Sara Brostrom** Member of: **Coastal Training (pending approval)**

Define Organization

Choose existing organization: Coastal Training

or

Provide new organization:

Submit Organization

Coastal Training
Ecological Land Services
Ecology
Environmental Science Associates
Grette Associates
Grette Associates
Herrera Environmental Consultants
King County Water and Land Resources Division
Northwest Ecological Services
Parametrix
SCJ Alliance

Site Map Ecology home Home
Version: 1.0.0.0 Contact us Privacy
Accessibility Copyright © Washington

Joining an Organization in WATOR

- Click on an existing Organization in the drop-down menu or press the “Submit Organization” button:



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Wetlands Rating Tool (Organization) Test

Home

Welcome: **Sara Brostrom** Member of: **Coastal Training (pending approval)**

Define Organization

Choose existing organization:

or

Provide new organization:

Submit Organization

Coastal Training
Coastal Training
Ecological Land Services
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Grette Associates
Herrera Environmental Consultants
King County Water and Land Resources Division
Northwest Ecological Services
Parametrix
SCJ Alliance

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Version: 1.0.0.0 Contact us Privacy
Accessibility Copyright © Washington

Joining an Organization in WATOR

- Ecology must approve all WATOR users to meet state online security requirements. This process can take up to two business days.
- You will receive an email acknowledging your request to join an Organization:



Joining an Organization in WATOR

- When your request to join an Organization is approved by Ecology, you will receive the following email:



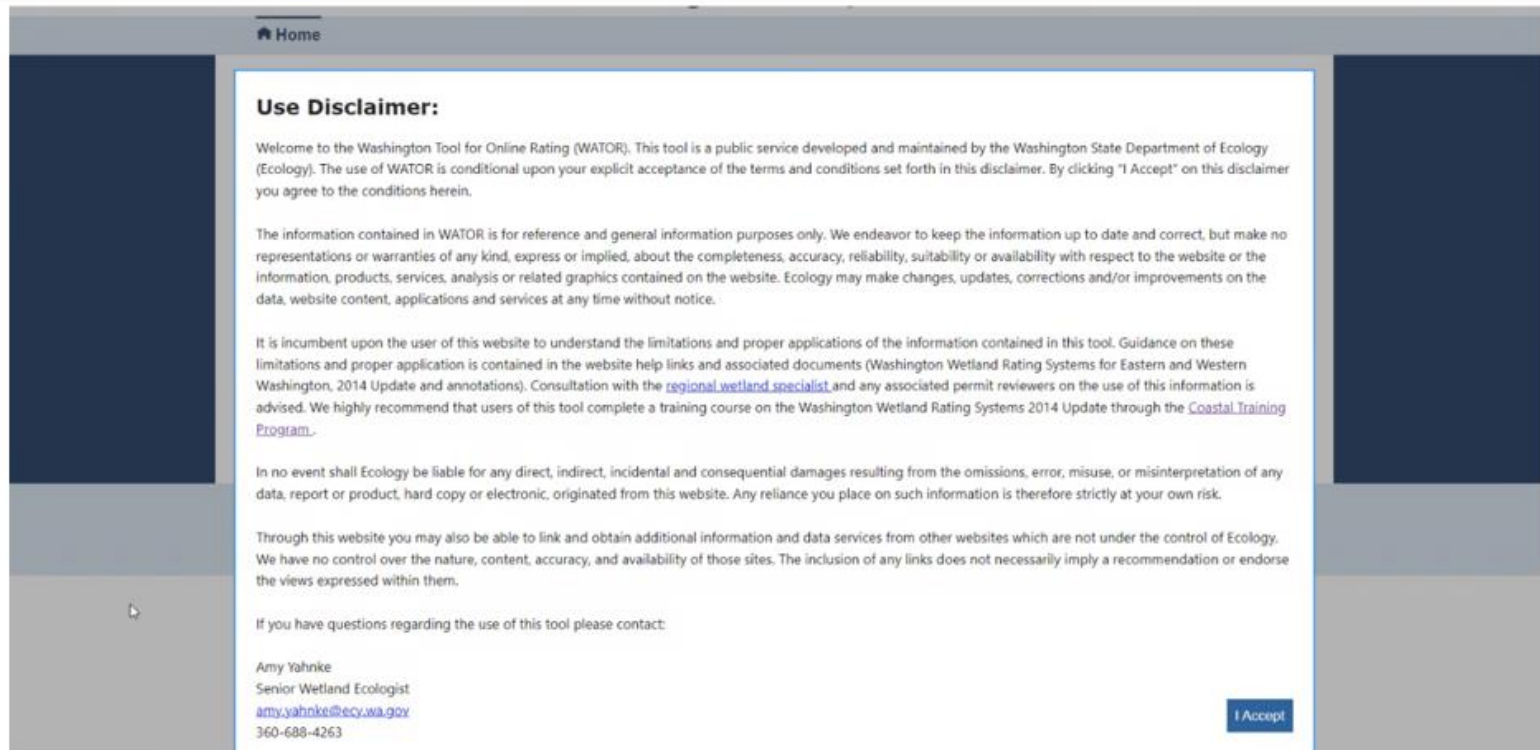
- You are now ready to start using WATOR!

WATOR Organization Tips and Tricks

- Use your Organization's full name; try to avoid acronyms and abbreviations if possible.
- **Please do not add a different variation of your Organization's name if it is already on the list.**
- If you are working for an external Organization (e.g., WSDOT) that wants data created and saved under their Organizational name, you can create a separate username for that work.
- It is probably a good idea to assign one person in your Organization to be the WATOR manager.
- Contact Amy with questions or problems.

Getting Started in WATOR

- You must accept the Use Disclaimer before each WATOR session:



Home

Use Disclaimer:

Welcome to the Washington Tool for Online Rating (WATOR). This tool is a public service developed and maintained by the Washington State Department of Ecology (Ecology). The use of WATOR is conditional upon your explicit acceptance of the terms and conditions set forth in this disclaimer. By clicking "I Accept" on this disclaimer you agree to the conditions herein.

The information contained in WATOR is for reference and general information purposes only. We endeavor to keep the information up to date and correct, but make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the website or the information, products, services, analysis or related graphics contained on the website. Ecology may make changes, updates, corrections and/or improvements on the data, website content, applications and services at any time without notice.

It is incumbent upon the user of this website to understand the limitations and proper applications of the information contained in this tool. Guidance on these limitations and proper application is contained in the website help links and associated documents (Washington Wetland Rating Systems for Eastern and Western Washington, 2014 Update and annotations). Consultation with the [regional wetland specialist](#) and any associated permit reviewers on the use of this information is advised. We highly recommend that users of this tool complete a training course on the Washington Wetland Rating Systems 2014 Update through the [Coastal Training Program](#).

In no event shall Ecology be liable for any direct, indirect, incidental and consequential damages resulting from the omissions, error, misuse, or misinterpretation of any data, report or product, hard copy or electronic, originated from this website. Any reliance you place on such information is therefore strictly at your own risk.

Through this website you may also be able to link and obtain additional information and data services from other websites which are not under the control of Ecology. We have no control over the nature, content, accuracy, and availability of those sites. The inclusion of any links does not necessarily imply a recommendation or endorse the views expressed within them.

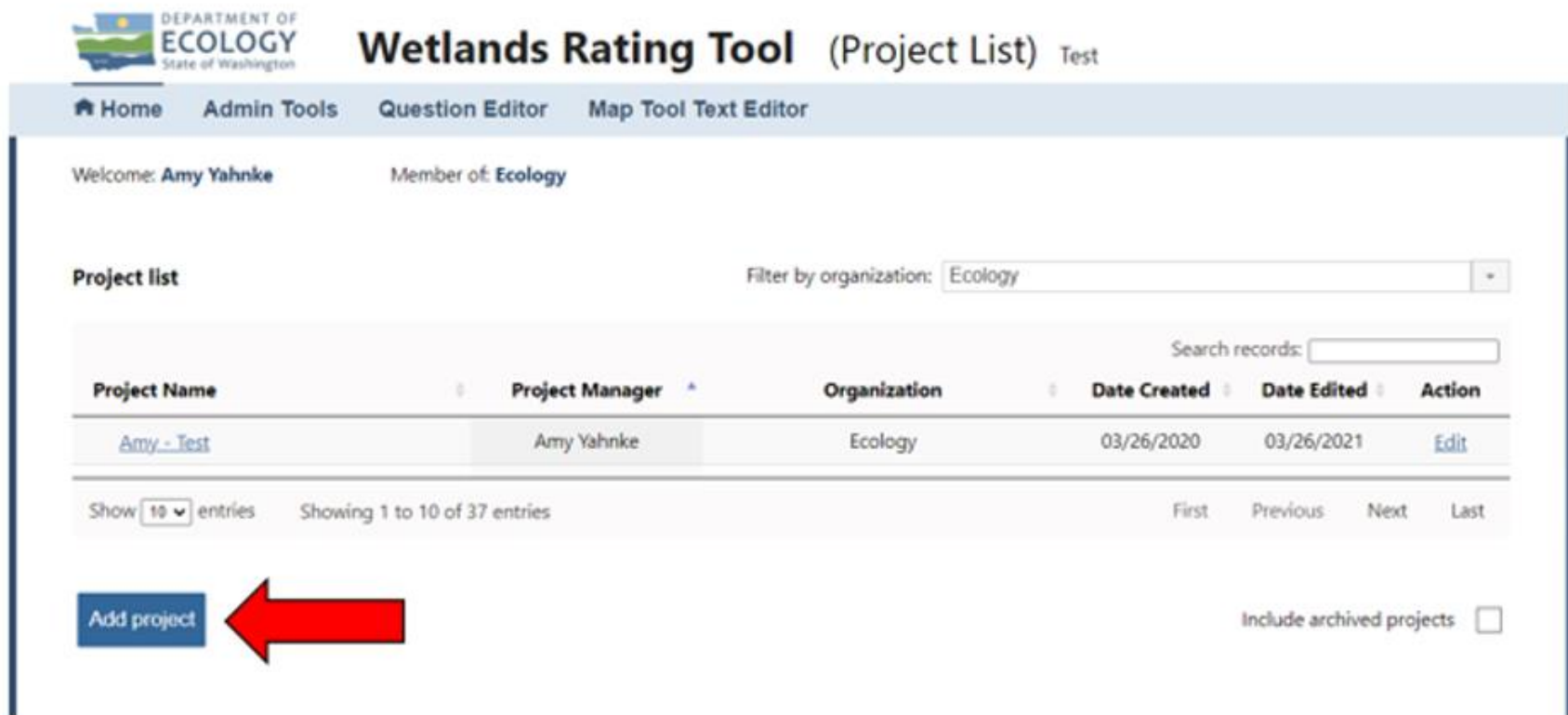
If you have questions regarding the use of this tool please contact:

Amy Yahnke
Senior Wetland Ecologist
amy.yahnke@ecy.wa.gov
360-688-4263

I Accept

Getting Started in WATOR

- Adding a new project (Project List Screen):



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Wetlands Rating Tool (Project List) Test

Home Admin Tools Question Editor Map Tool Text Editor

Welcome: Amy Yahnke Member of: Ecology

Project list Filter by organization: Ecology

Search records:

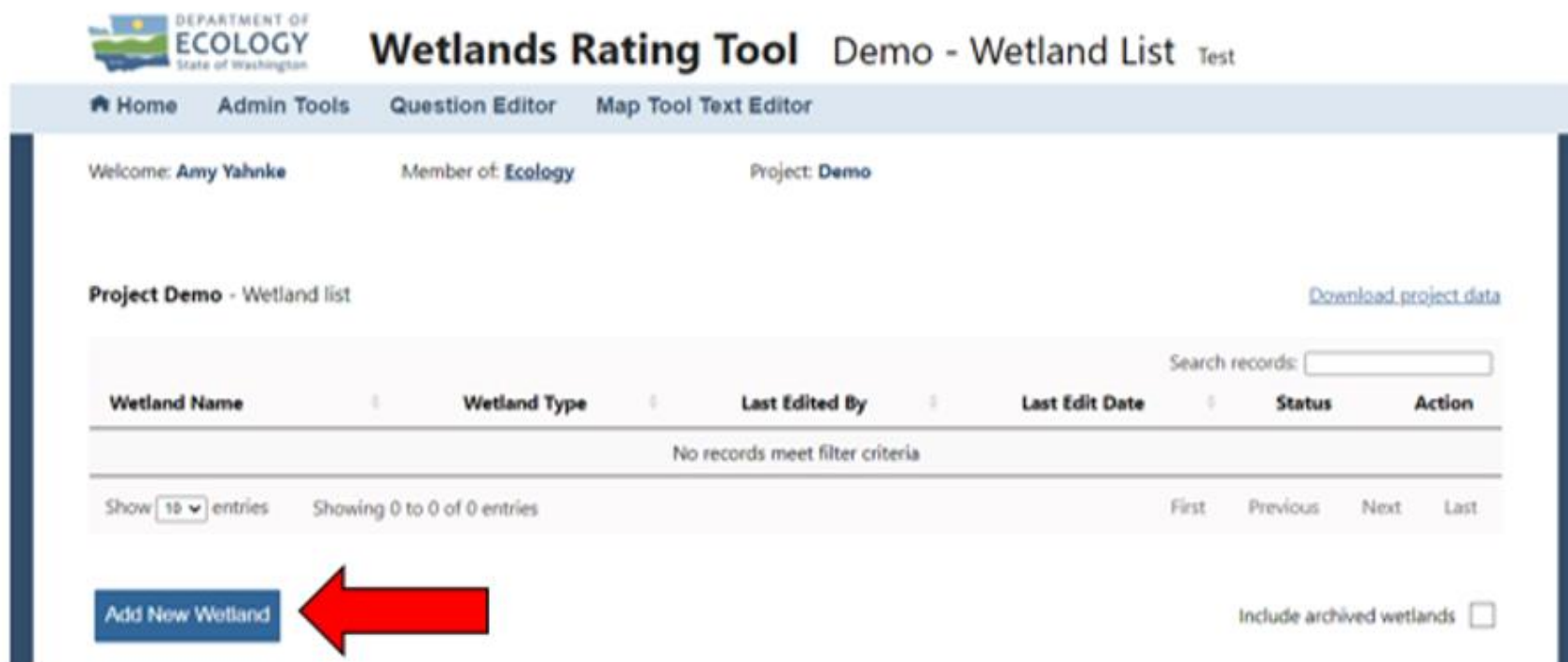
Project Name	Project Manager	Organization	Date Created	Date Edited	Action
Amy - Test	Amy Yahnke	Ecology	03/26/2020	03/26/2021	Edit

Show 10 entries Showing 1 to 10 of 37 entries First Previous Next Last

[Add project](#) Include archived projects

Getting Started in WATOR

- Adding a new wetland (Wetland List screen):



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Wetlands Rating Tool Demo - Wetland List Test

Home Admin Tools Question Editor Map Tool Text Editor

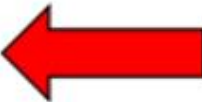
Welcome: Amy Yahnke Member of: Ecology Project: Demo

Project Demo - Wetland list [Download project data](#)

Search records:

Wetland Name	Wetland Type	Last Edited By	Last Edit Date	Status	Action
No records meet filter criteria					

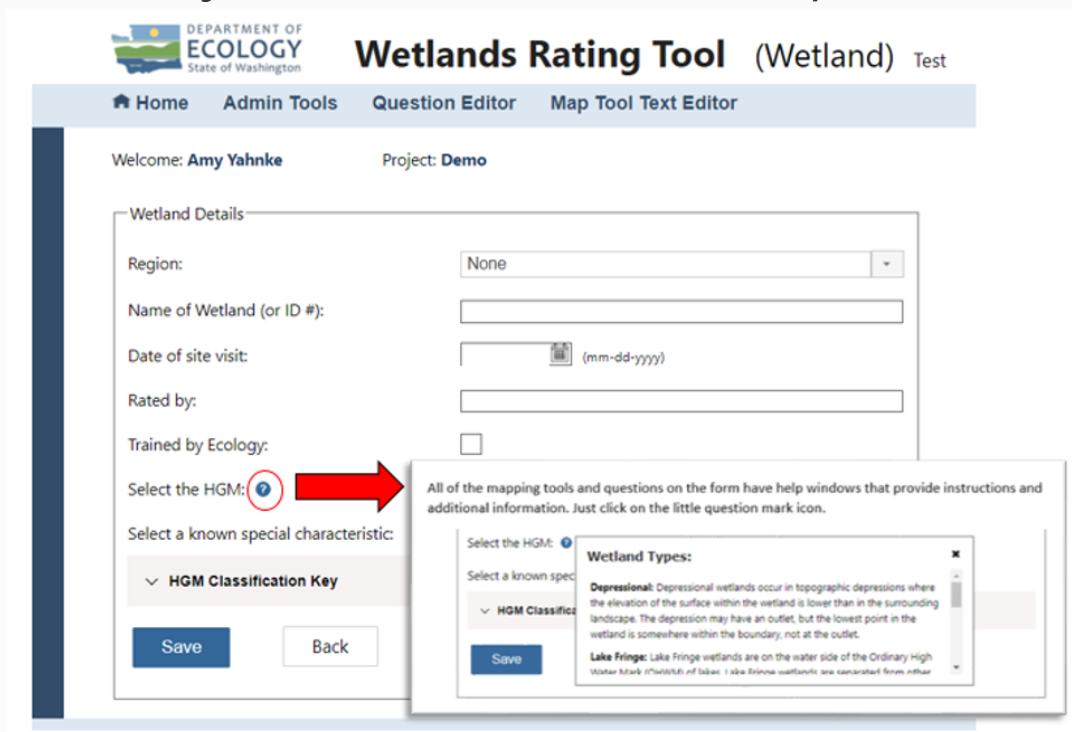
Show entries Showing 0 to 0 of 0 entries First Previous Next Last

Add New Wetland 

Include archived wetlands

Getting Started in WATOR

- Once you have added a new wetland, you must identify the Region and Hydrogeomorphic (HGM) class of the wetland, so WATOR can take you to the correct tools/forms:



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Wetlands Rating Tool (Wetland) Test

Home Admin Tools Question Editor Map Tool Text Editor

Welcome: **Amy Yahnke** Project: **Demo**

Wetland Details



Region:

Name of Wetland (or ID #):

Date of site visit: (mm-dd-yyyy)

Rated by:


Trained by Ecology:

Select the HGM:  

Select a known special characteristic:

HGM Classification Key

All of the mapping tools and questions on the form have help windows that provide instructions and additional information. Just click on the little question mark icon.

Select the HGM: 

Select a known spec

HGM Classific

Wetland Types:


Depressional: Depressional wetlands occur in topographic depressions where the elevation of the surface within the wetland is lower than in the surrounding landscape. The depression may have an outlet, but the lowest point in the wetland is somewhere within the boundary, not at the outlet.

Lake Fringe: Lake Fringe wetlands are on the water side of the Ordinary High Water Mark (OHWM) of lakes. Lake fringe wetlands are characterized from other

Getting Started in WATOR

- To choose the HGM class of a wetland, you can enter it manually or answer the flowchart questions:

When you have selected the wetland's HGM class, click "Save".

Select the HGM: 

Depressional Lake Fringe Riverine Slope
 Saltwater Tidal Fringe Freshwater Tidal Fringe Flats

Select a known special characteristic:

Estuarine WHCV Bog
 Forested Wetland Coastal Lagoon Interdunal

HGM Classification Key

This classification key will help you identify whether the wetland is Tidal Fringe, Flats, Lake Fringe, Slope, Riverine, or Depressional. The key contains eight questions that need to be answered sequentially.

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

HGM 1.0 Are the levels in the entire unit usually controlled by the tides except during floods?

No - Go to HGM 2.0 Yes - The wetland HGM class is Tidal Fringe - Go to HGM 1.1

Getting Started in WATOR

- Once you have selected the wetland's HGM class, you are directed to the relevant mapping tools and wetland rating form for the wetland:



The screenshot shows the 'Wetlands Rating Tool' interface for 'Test1 - Details'. The header includes the Department of Ecology logo and navigation links: Home, Admin Tools, Question Editor, and Map Tool Text Editor. User information is displayed: Welcome: Amy Yahnke, Member of: Ecology, Project: ProdTest, and Wetland Name: Test1. The main content area is titled 'Wetland Test1 - Depressional' and includes a 'Download wetland data' link. A paragraph explains the WATOR tool's purpose. Below this are two expandable sections: 'Wetland Mapping Tools' and 'Wetland Form'. At the bottom right, there are two buttons: 'Full Summary' and 'Condensed Summary'.

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Wetlands Rating Tool Test1 - Details

Home Admin Tools Question Editor Map Tool Text Editor

Welcome: **Amy Yahnke** Member of: **Ecology** Project: **ProdTest** Wetland Name: **Test1**

Wetland Test1 - Depressional [Download wetland data](#)

The Washington Tool for Online Rating (WATOR) can be used to complete an entire wetland rating by using the Wetland Mapping Tools to calculate answers and generate figures and the Wetland Form to complete a wetland rating. The Wetland Form may also be used as an electronic version of the wetland rating form without using the Wetland Mapping Tools, or the Wetland Mapping Tools can be used to generate figures without using the electronic form. When using the Wetland Mapping Tools to generate figures and calculate answers, start with the first tool, Define Wetland. This provides the context for all of the following tools and figures.

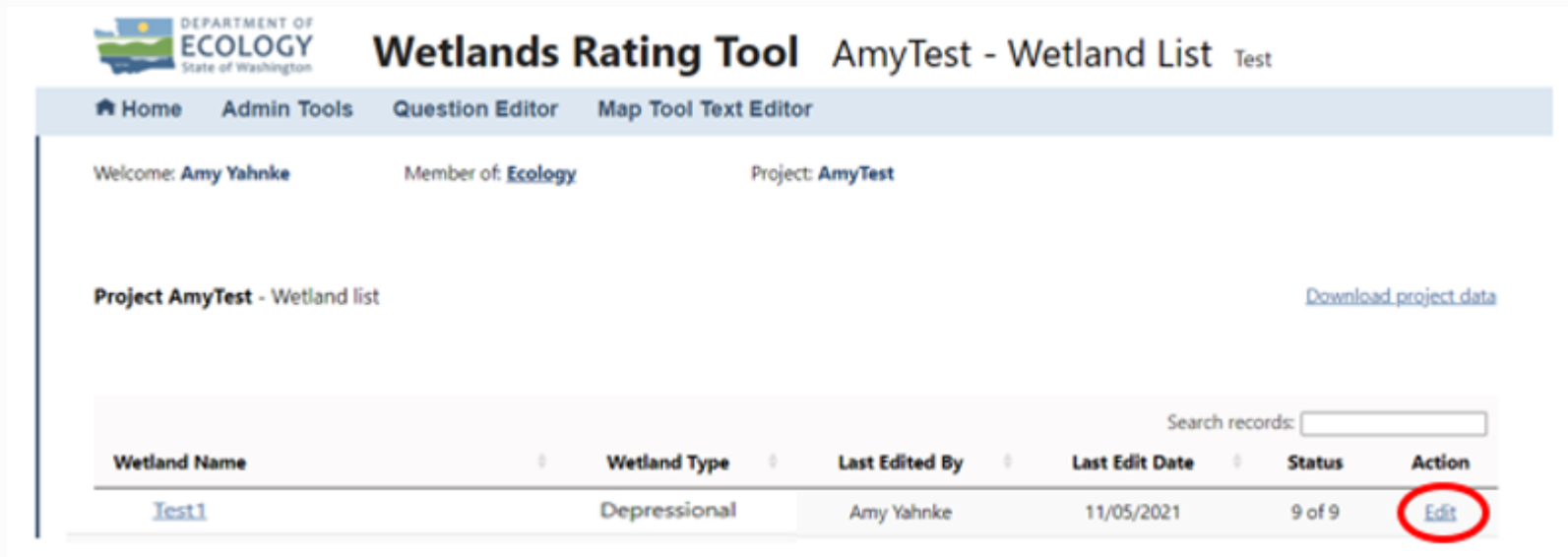
Wetland Mapping Tools

Wetland Form

Full Summary Condensed Summary

Making Edits in WATOR

- To edit the general wetland information or the HGM class of a wetland, go to the Wetland List page and select “Edit” in the Action column:



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Wetlands Rating Tool

 AmyTest - Wetland List Test

Home Admin Tools Question Editor Map Tool Text Editor

Welcome: **Amy Yahnke** Member of: [Ecology](#) Project: **AmyTest**

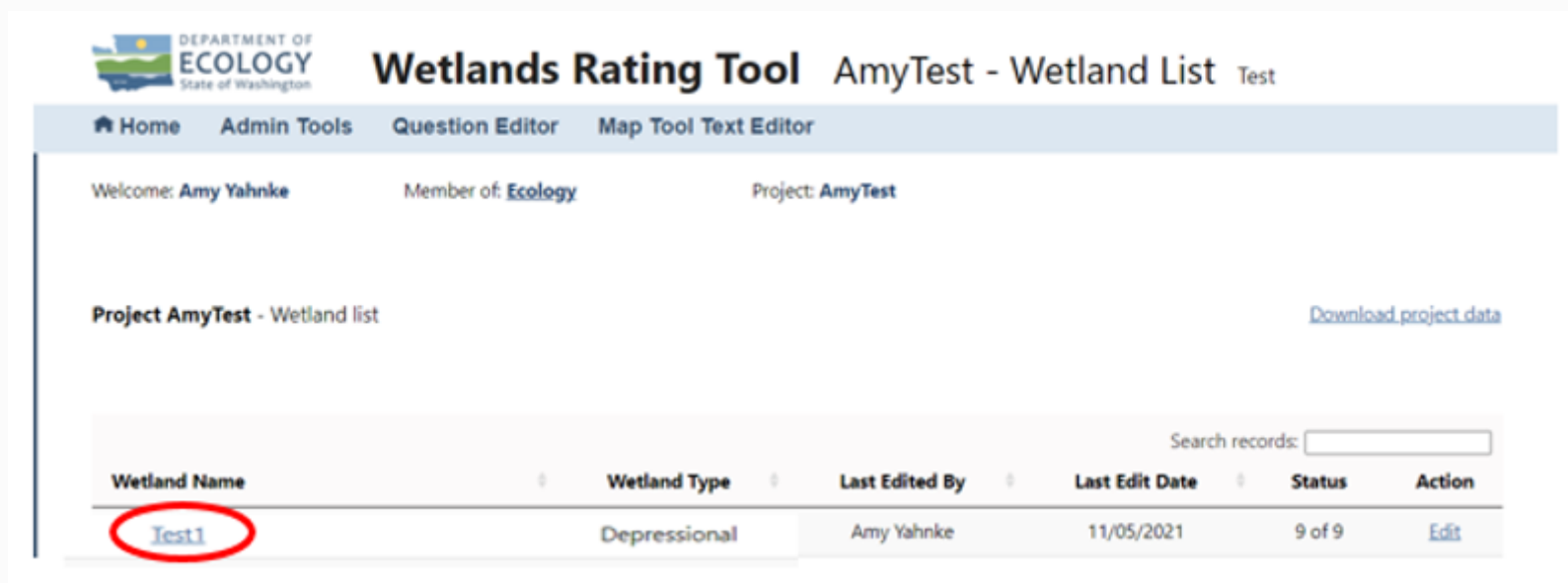
Project AmyTest - Wetland list [Download project data](#)

Search records:

Wetland Name	Wetland Type	Last Edited By	Last Edit Date	Status	Action
Iest1	Depressional	Amy Yahnke	11/05/2021	9 of 9	Edit

Making Edits in WATOR

- To edit the wetland mapping tools or the wetland rating form, go to the Wetland List page and select the wetland to edit from the list in the Wetland Name column:



DEPARTMENT OF ECOLOGY State of Washington

Wetlands Rating Tool

AmyTest - Wetland List [Test](#)

[Home](#)
[Admin Tools](#)
[Question Editor](#)
[Map Tool Text Editor](#)

Welcome: Amy Yahnke Member of: [Ecology](#) Project: AmyTest

Project AmyTest - Wetland list [Download project data](#)

Search records:

Wetland Name	Wetland Type	Last Edited By	Last Edit Date	Status	Action
Test1	Depressional	Amy Yahnke	11/05/2021	9 of 9	Edit

Rating a Wetland in WATOR

- WATOR gives you the option to use the rating form without using the map tools:



The screenshot shows the WATOR interface for 'Wetlands Rating Tool Test1 - Details'. The header includes the Department of Ecology logo and navigation links: Home, Admin Tools, Question Editor, and Map Tool Text Editor. User information is displayed: Welcome: Amy Yahnke, Member of: Ecology, Project: ProdTest, and Wetland Name: Test1. The main content area is titled 'Wetland Test1 - Depressional' and includes a 'Download wetland data' link. A paragraph explains the tool's usage. Below this, there are two expandable sections: 'Wetland Mapping Tools' and 'Wetland Form'. The 'Wetland Form' section is circled in red. At the bottom right, there are two buttons: 'Full Summary' and 'Condensed Summary'.

Rating a Wetland in WATOR

- To use the rating tools in WATOR, you need to define the wetland unit to rate. Use the “Define wetland” Tool to input the boundary of the unit:

Wetland Test1 - Lake Fringe

The Washington Tool for Online Rating (WATOR) can be used to generate figures and the Wetland Form to complete a wetland using the Wetland Mapping Tools, or the Wetland Mapping Tools to generate figures and calculate answers, start with the f

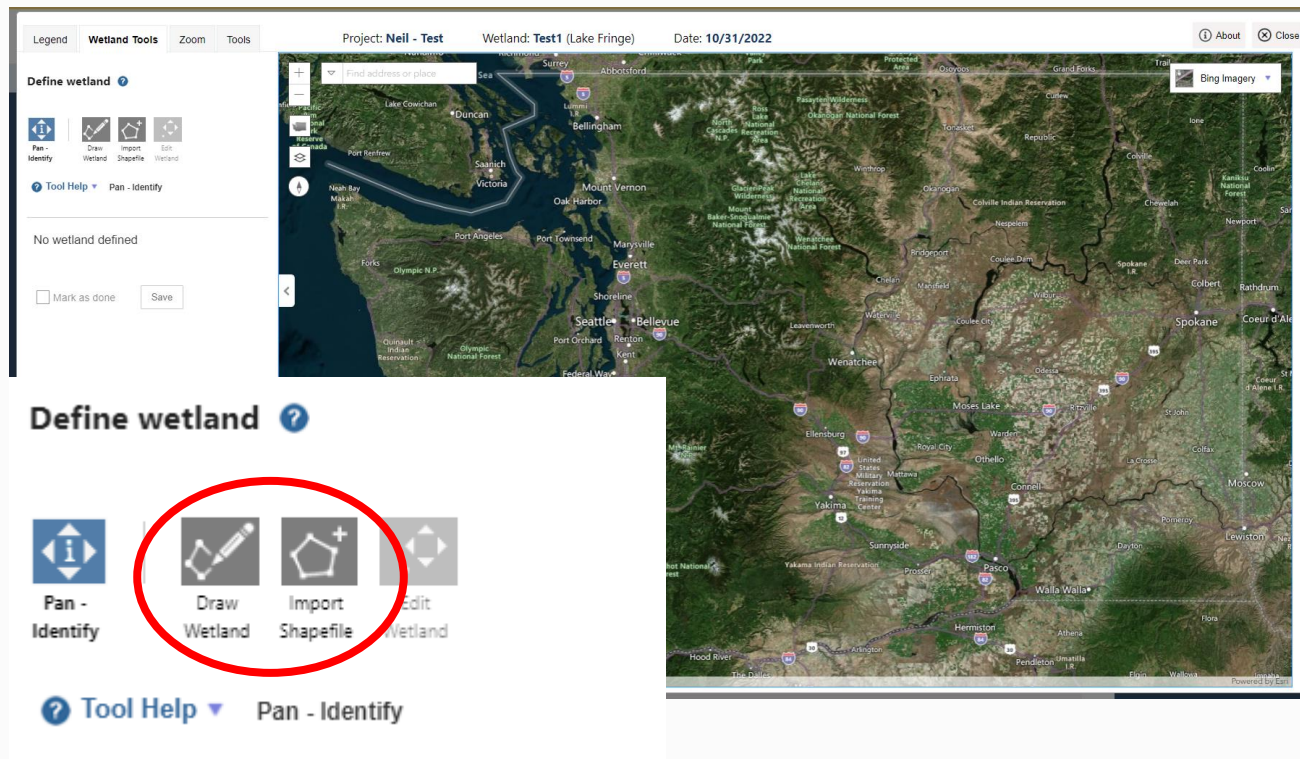
^ Wetland Mapping Tools

Tool
1. Define wetland
2. Project area
3. Cowardin plant classes
4. Cowardin (lines)
5. Plant cover (riverine, lake fringe)
6. Habitat
7. 303(d) listed waters
8. TMDL
9. Land use

Showing 1 to 9 of 9 entries

Rating a Wetland in WATOR

- You can define your wetland unit by drawing it in or by importing a shapefile:



Rating a Wetland in WATOR

- Once you have defined your wetland unit to rate, the other map tools become available:

Wetland Lones Levee - Riverine [Download wetland data](#)

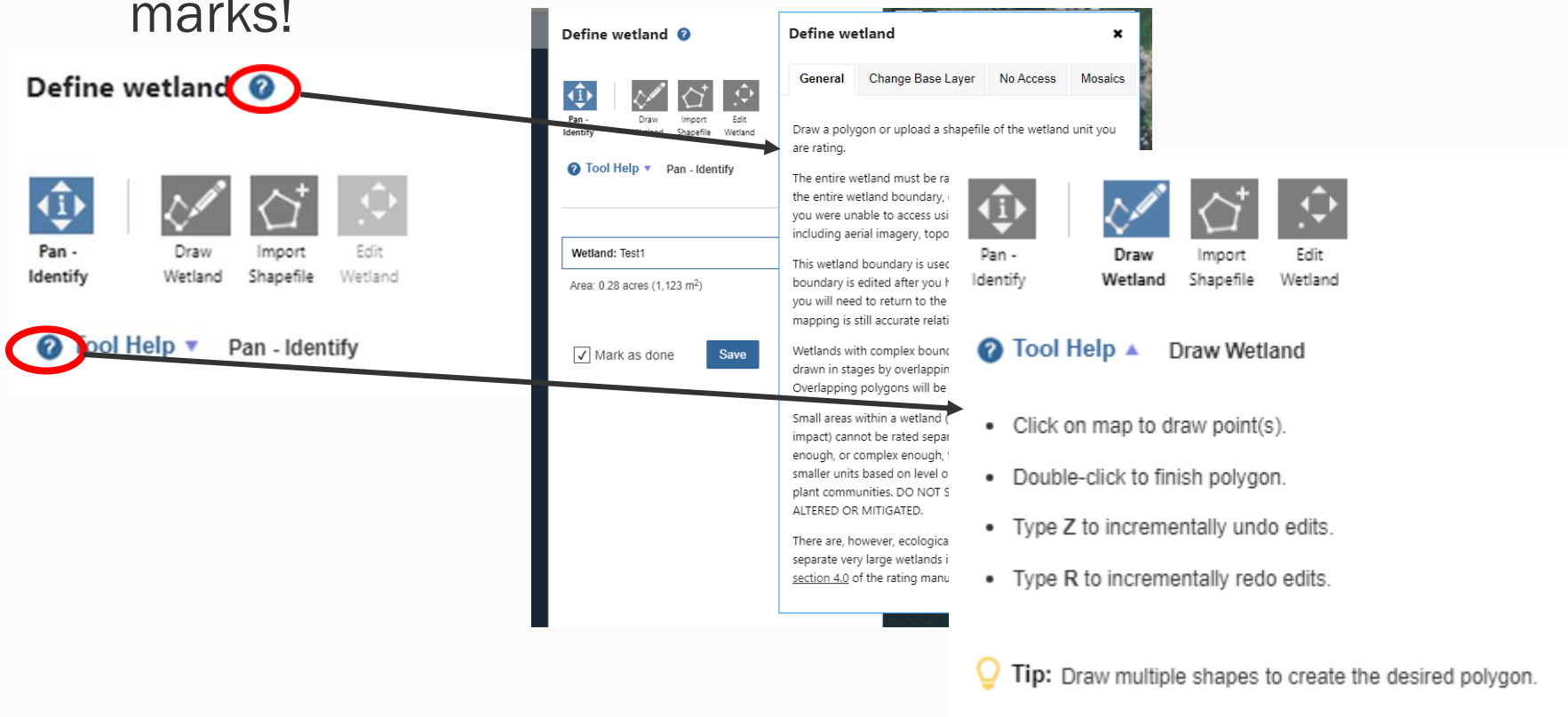
The Washington Tool for Online Rating (WATOR) can be used to complete an entire wetland rating by using the Wetland Mapping Tools to calculate answers and generate figures and the Wetland Form to complete a wetland rating. The Wetland Form may also be used as an electronic version of the wetland rating form without using the Wetland Mapping Tools, or the Wetland Mapping Tools can be used to generate figures without using the electronic form. When using the Wetland Mapping Tools to generate figures and calculate answers, start with the first tool, Define Wetland. This provides the context for all of the following tools and figures.

^ Wetland Mapping Tools				
Tool	Status	Last Edited	Last Edited By	
✓ 1. Define wetland	Done	04/23/2020	Neil Molstad	
✓ 2. Project area	Done	04/03/2020	Neil Molstad	
✓ 3. Cowardin plant classes	Done	05/01/2020	Neil Molstad	
4. Hydroperiods				
5. Ponded depressions				
✓ 6. Plant cover (riverine, lake fringe)	Done	05/01/2020	Neil Molstad	
✓ 7. Width	Done	05/01/2020	Neil Molstad	
✓ 8. Contributing basin	Done	05/01/2020	Neil Molstad	
✓ 9. Habitat	Done	04/23/2020	Neil Molstad	
10. 303(d) listed waters				
11. TMDL				
✓ 12. Land use	Done	05/01/2020	Neil Molstad	

Showing 1 to 12 of 12 entries

Getting Help in WATOR

- Most of the places within WATOR provide links to help and assist you in the use of the tool. Look for the question marks!



The screenshot shows the 'Define wetland' interface. Two red circles highlight question mark icons: one next to the 'Define wetland' title and another next to the 'Tool Help' dropdown menu. Arrows point from these circles to a detailed help window titled 'Define wetland'.

Define wetland ?

General | Change Base Layer | No Access | Mosaics

Draw a polygon or upload a shapefile of the wetland unit you are rating.

The entire wetland must be rated. If you were unable to access user data including aerial imagery, topographic data, or other data, you will need to return to the mapping interface to update the data.

This wetland boundary is used for rating. If the boundary is edited after you finish the mapping, the rating will still be accurate relative to the original boundary.

Wetlands with complex boundaries drawn in stages by overlapping polygons will be rated as a single unit.

Small areas within a wetland (e.g., impact) cannot be rated separately, or complex enough, to be rated as smaller units based on level of plant communities. DO NOT ALTER OR MITIGATED.

There are, however, ecological reasons to separate very large wetlands into smaller units. See [section 4.0](#) of the rating manual.

Wetland: Test1
Area: 0.28 acres (1,123 m²)

Mark as done

Tip: Draw multiple shapes to create the desired polygon.

Creating Wetland Rating Figures in WATOR

- Adjust the transparency slider to make the underlying image more visible:

The screenshot displays the WATOR web application interface. At the top, there are tabs for 'Legend', 'Wetland Tools', 'Zoom', and 'Tools'. The current project is 'Project: AmyTest' and the wetland is 'Wetland: ewaDepressionalTest'. The main area shows an aerial photograph with a wetland rating figure overlaid. The figure consists of several nested areas: a central pink area labeled 'Aquatic bed', surrounded by a red area labeled 'Emergent 0-12 inches', an orange area labeled 'Emergent 12-40 inches', and an outer yellow area labeled 'Emergent > 40 inches'. A red circle highlights the 'Transparency' slider in the legend, which is currently set to a low value, making the underlying image less visible. Below the legend, there is a checkbox for 'Mark as done' and a 'Save' button. The bottom right corner of the interface shows a search bar with the text 'Find address to place'.

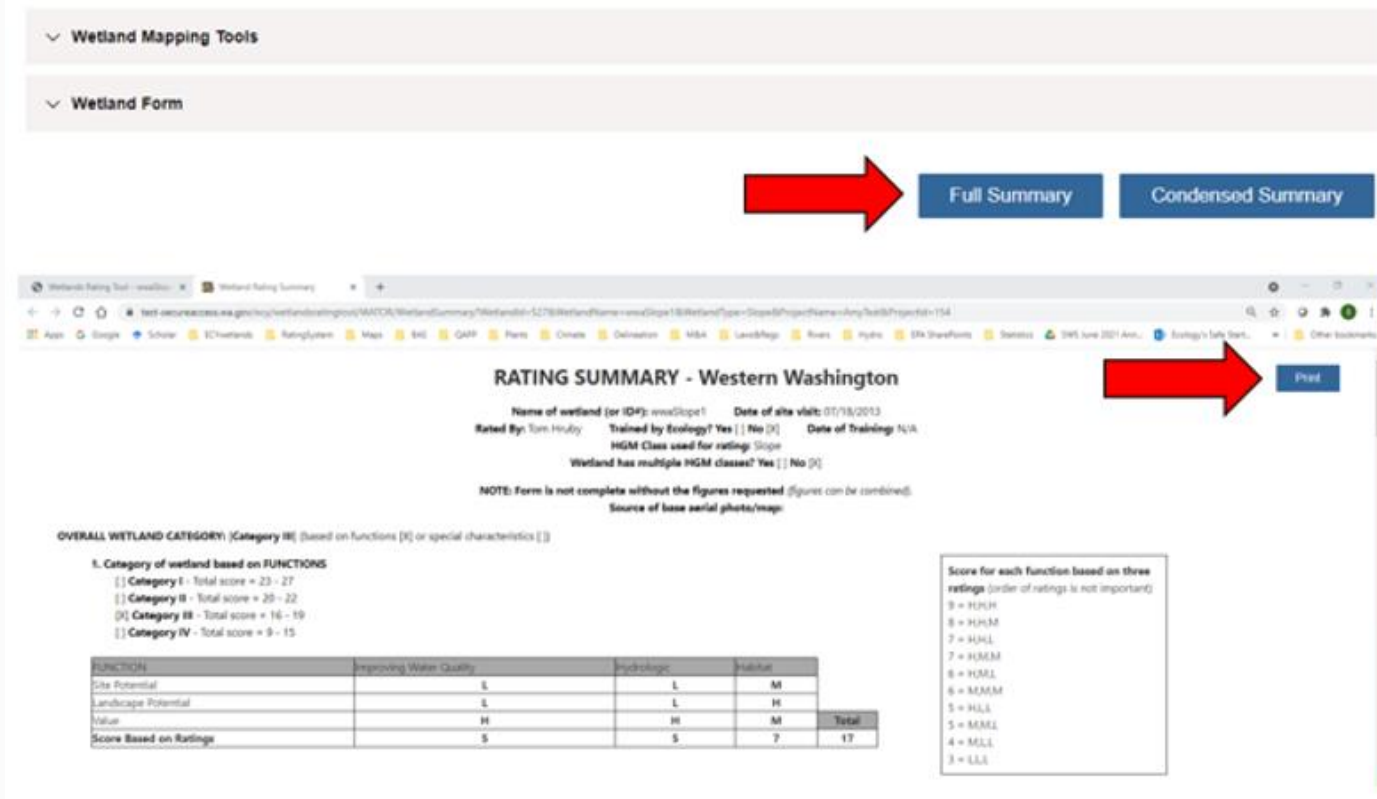
Creating Wetland Rating Figures in WATOR

- Make adjustments so that all needed information is included in your proposed image, then take a snip:



Printing/Saving Wetland Rating Forms in WATOR

- To print or save the rating form results elsewhere, click on “Full Summary” or “Condensed Summary” and then “Print”:



Wetland Mapping Tools

Wetland Form

Full Summary **Condensed Summary**

RATING SUMMARY - Western Washington

Name of wetland (or ID): Date of site visit: 01/18/2013
 Rated By: Tom Hruby Trained by Ecology? Yes No Date of training: N/A
 HGM Class used for rating: Slope
 Wetland has multiple HGM classes? Yes No

NOTE: Form is not complete without the figures requested (figures can be combined).
 Source of base aerial photo/map:

OVERALL WETLAND CATEGORY: **Category III** (based on functions or special characteristics)

I. Category of wetland based on FUNCTIONS

- Category I - Total score = 23 - 27
- Category II - Total score = 20 - 22
- Category III - Total score = 16 - 19
- Category IV - Total score = 9 - 15

FUNCTION	Improving Water Quality	Hydrologic	Wildlife	Total
Site Potential	L	L	M	
Landscape Potential	L	L	M	
Value	M	M	M	
Score Based on Ratings	5	5	7	17

Score for each function based on three ratings (order of ratings is not important)

- 9 = HHHH
- 8 = HHHM
- 7 = HHLL
- 7 = HMLM
- 6 = HMLL
- 6 = MMLM
- 5 = HLLL
- 5 = MMLL
- 4 = MLLL
- 3 = LLLL

Print

Printing/Saving Wetland Rating Forms in WATOR

- Here is a snip of what you get after hitting the “Print” button:

Print ?

Total: 12 pages

Printer

Save as PDF v

Layout

Portrait

Landscape

Pages

All

Odd pages only

Even pages only

e.g. 1-5, 8, 11-13

[More settings v](#)

[Troubleshoot printer issues](#)

Save Cancel

11/1/22, 1:34 PM Wetland Rating Summary

Wetland name or number: NWC21-WA-10028

RATING SUMMARY - Western Washington

Name of wetland (or ID#): NWC21-WA-10028 **Date of site visit:** 06/30/2021
Rated By: Neil Molstad **Trained by Ecology?** Yes No **Date of Training:** N/A
HGM Class used for rating: Depressional
Wetland has multiple HGM classes? Yes No

NOTE: Form is not complete without the figures requested (figures can be combined).
Source of base aerial photo/map:

OVERALL WETLAND CATEGORY: [Category III] (based on functions or special characteristics)

1. Category of wetland based on FUNCTIONS

Category I - Total score = 23 - 27

Category II - Total score = 20 - 22

Category III - Total score = 16 - 19

Category IV - Total score = 9 - 15

Score for each function based on three ratings
(order of ratings is not important)

9 = H,H,H
 8 = H,H,M
 7 = H,H,L
 7 = H,M,M
 6 = H,M,L
 6 = M,M,M
 5 = H,L,L
 5 = M,M,L
 4 = M,L,L
 3 = L,L,L

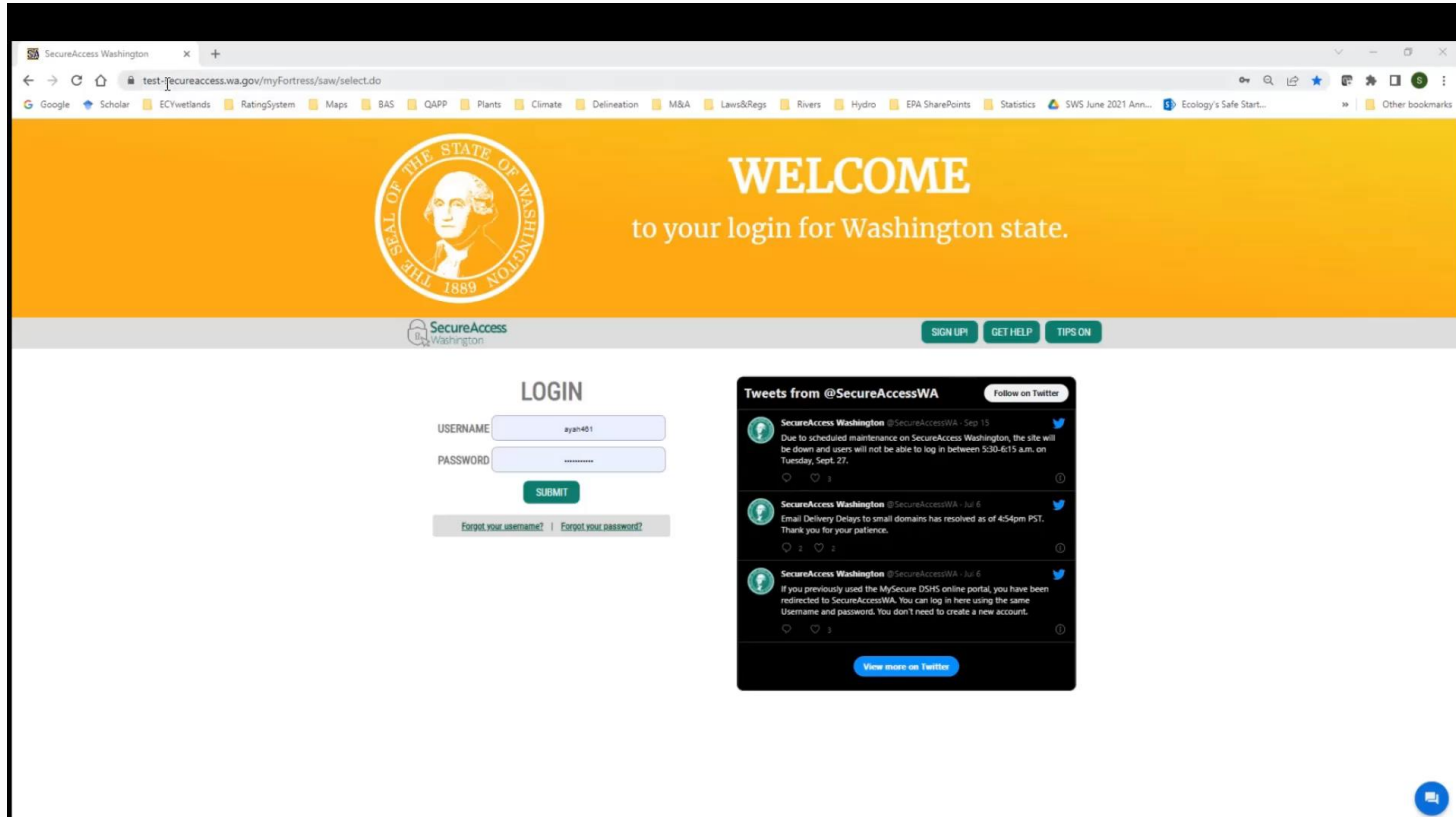
FUNCTION	Improving Water Quality	Hydrologic	Habitat	
Site Potential	M	M	L	
Landscape Potential	L	L	H	
Value	M	L	H	Total
Score Based on Ratings	5	4	7	16

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	
Wetland of High Conservation Value	
Bog	
Forested	
Coastal Lagoon	
Interdunal	
None of the above	Not Applicable

WATOR Demonstration

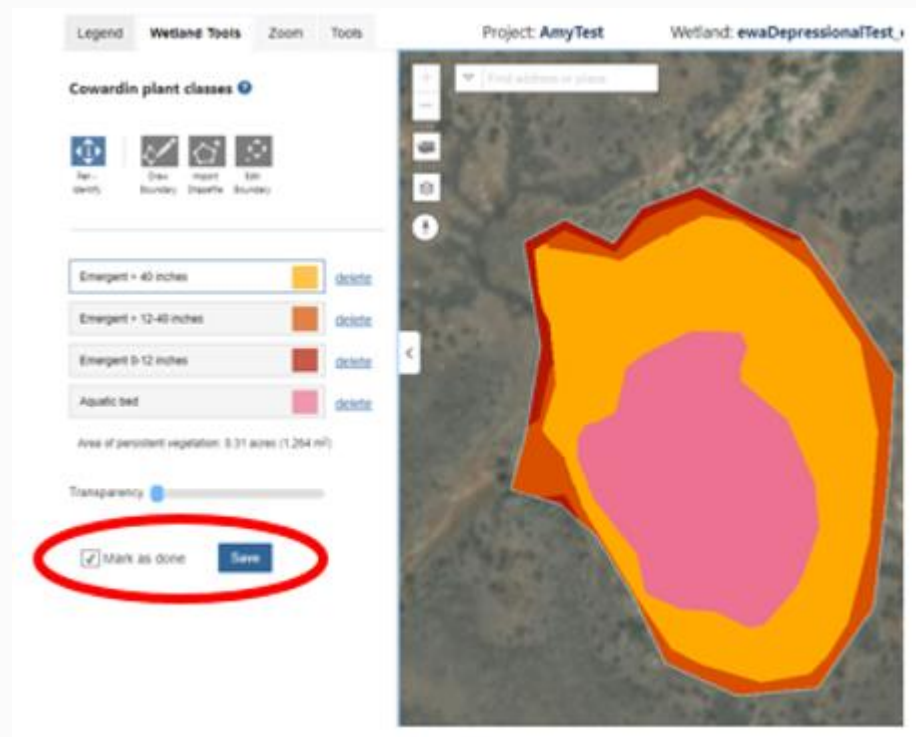
- I will demonstrate the tool myself, or we will watch a video of Amy Yahnke demonstrating the tool and I will narrate.



The screenshot shows the SecureAccess Washington login page in a browser. The page features a yellow header with the Washington State seal and the text "WELCOME to your login for Washington state." Below the header, there are links for "SIGN UP", "GET HELP", and "TIPS ON". The main content area includes a "LOGIN" section with fields for "USERNAME" (containing "aya1401") and "PASSWORD" (masked with dots), and a "SUBMIT" button. Below the login fields are links for "Forgot your username?" and "Forgot your password?". To the right of the login section is a "Tweets from @SecureAccessWA" widget displaying three tweets. The first tweet is a maintenance notice: "Due to scheduled maintenance on SecureAccess Washington, the site will be down and users will not be able to log in between 5:30-6:15 a.m. on Tuesday, Sept. 27." The second tweet is about email delivery delays: "Email Delivery Delays to small domains has resolved as of 4:54pm PST. Thank you for your patience." The third tweet is about account redirection: "If you previously used the MySecure DSHS online portal, you have been redirected to SecureAccessWA. You can log in here using the same Username and password. You don't need to create a new account." A "View more on Twitter" button is at the bottom of the widget. The browser's address bar shows "test-secureaccess.wa.gov/myFortress/saw/select.do".

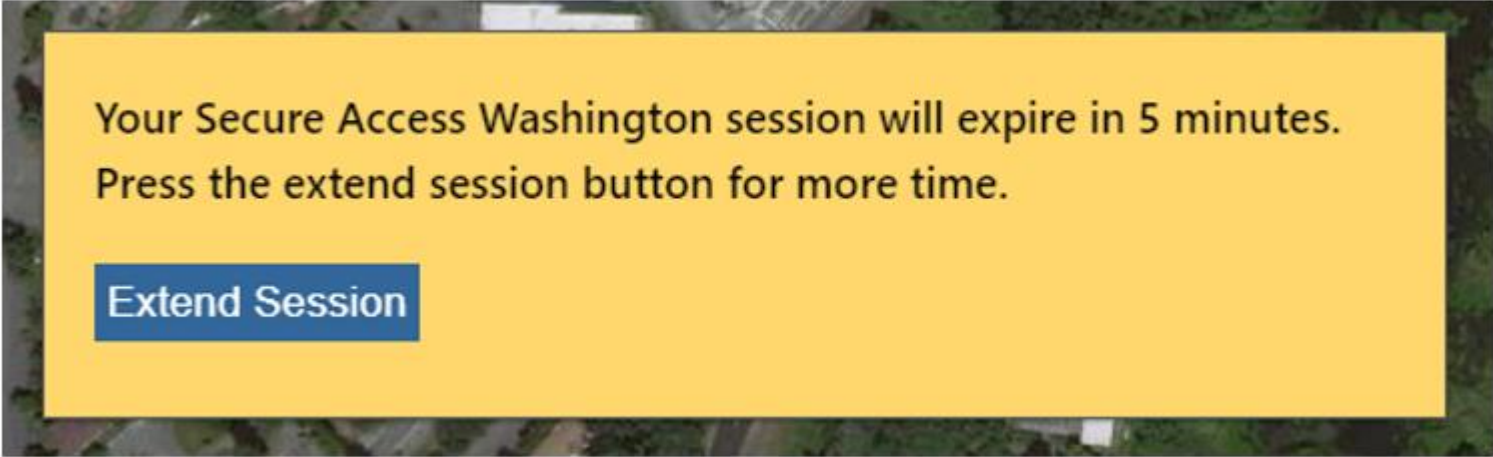
WATOR Tips and Tricks

- Always save your work before closing out of any map tools!



WATOR Tips and Tricks

- Don't leave WATOR "unattended". Why? SAW requires a time limit to the application, and it will close unexpectedly if you don't let SAW know you are still there. Save early, save often, save always!



Your Secure Access Washington session will expire in 5 minutes.
Press the extend session button for more time.

[Extend Session](#)

Coming Soon to WATOR

- Draft annotations to the Rating System have already been incorporated into WATOR.
- Template page to drop your figure snips in to.
- Tutorial videos.
- WATOR Users Guide
- An even more condensed version of the condensed wetland rating form.
- Sign up to receive updates on WATOR through Ecology's wetland listserv: [Washington Department of Ecology \(govdelivery.com\)](mailto:Washington%20Department%20of%20Ecology@govdelivery.com)

Feedback on WATOR

- Please email Amy Yahnke (amy.yahnke@ecy.wa.gov) if you would like to test out WATOR before the production version is released.
- Amy is also looking for feedback on the following:
 - Navigating and using the tools and form
 - Clarity of instructions
 - General user experience
 - The intuitiveness of the tool
 - What needs improving
 - Issues/bugs
 - Text edits
 - What to emphasize for potential future trainings



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Thank you