## **RATING SUMMARY – Eastern Washington**

Name of wetland (or ID #):	Date of site visit:
Rated by	_ Trained by Ecology? Yes No Date of training
HGM Class used for rating	Wetland has multiple HGM classes?YN
	t the figures requested (figures can be combined).
OVERALL WETLAND CATEGORY _	(based on functions or special characteristics)

#### 1. Category of wetland based on FUNCTIONS

Category I — Total score = 22-27
Category II - Total score = 19-21
Category III – Total score = 16-18
Category IV - Total score = 9-15

FUNCTION		nprov ter Q	ing uality	H	ydrolo	ogic		Habita	at	
			Circle	the a	ppropi	riate ro	itings	i		
Site Potential	Н	М	L	Н	М	L	Н	М	L	
Landscape Potential	Н	М	L	Н	М	L	Н	М	L	
Value	Н	М	L	Н	М	L	Н	М	L	TOTAL
Score Based on Ratings										

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

8 = H,H,M 7 = H,H,L

9 = H,H,H

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

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY Circle the appropriate category
Vernal Pools	II III
Alkali	I
Wetland of High Conservation Value	I
Bog and Calcareous Fens	I
Old Growth or Mature Forest – slow growing	I
Aspen Forest	I
Old Growth or Mature Forest – fast growing	II
Floodplain forest	II
None of the above	

# Maps and figures required to answer questions correctly for Eastern Washington <a href="Depressional Wetlands">Depressional Wetlands</a>

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	D 1.3, H 1.1, H 1.5	
Hydroperiods (including area of open water for H 1.3)	D 1.4, H 1.2, H 1.3	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which wetland is found (website)	D 3.3	

#### **Riverine Wetlands**

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	H 1.1, H 1.5	
Hydroperiods	H 1.2, H 1.3	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of wetland vs. width of stream (can be added to another figure)	R 4.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which wetland is found (website)	R 3.2, R 3.3	

#### Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	L 1.1, L 4.1, H 1.1, H 1.5	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which wetland is found (website)	L 3.3	

#### Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	H 1.1, H 1.5	
Hydroperiods	H 1.2, H 1.3	
Plant cover of <b>dense</b> trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of dense, rigid trees, shrubs, and herbaceous plants	S 4.1	
(can be added to figure above)		
Boundary of area within 150 ft of the wetland (can be added to another figure)	S 2.1, S 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which wetland is found (website)	S 3.3	

## **HGM Classification of Wetland in Eastern Washington**

For questions 1-4, 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 1-4 apply, and go to Question 5.

1.	Does the entire unit <b>meet both</b> of the following criteria?  The vegetated part of the wetland is on the water side of the Ordinary High Water Mark of a body of permanent open water (without any plants on the surface) that is at least 20 ac (8 ha) in size  At least 30% of the open water area is deeper than 10 ft (3 m)
	NO – go to 2 YES – The wetland class is Lake Fringe (Lacustrine Fringe)
2.	Does the entire wetland unit <b>meet all</b> of the following criteria? The wetland is on a slope ( <i>slope can be very gradual</i> ), The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheetflow, or in a swale without distinct banks; The water leaves the wetland <b>without being impounded</b> .
	NO - go to 3  YES – The wetland class is <b>Slope</b> NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 foot deep).
3.	Does the entire wetland unit <b>meet all</b> of the following criteria?  The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river;  The overbank flooding occurs at least once every 10 years.
	NO - go to 4 YES – The wetland class is <b>Riverine NOTE:</b> The Riverine wetland can contain depressions that are filled with water when the river is not flooding.
4.	s the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year. This means that any outlet, if present, is higher than the interior of the wetland.
	NO – go to 5 YES – The wetland class is <b>Depressional</b>
5.	Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-4 APPLY TO DIFFERENT

AREAS IN THE WETLAND UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present

within the wetland unit being scored.

Wetland	name	or	number	
---------	------	----	--------	--

**NOTE:** Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the wetland unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit being rated	HGM Class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine (the riverine portion is within	Depressional
the boundary of depression)	Depressional
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.

<u>DEPRESSIONAL WETLANDS</u>	Points
Water Quality Functions - Indicators that the site functions to improve water quality	(only 1 score p box)
O 1.0. Does the site have the potential to improve water quality?	
D 1.1. Characteristics of surface water outflows from the wetland:	
Wetland has no surface water outlet	points = 5
Wetland has an intermittently flowing outlet	points = 3
Wetland has a highly constricted permanently flowing outlet	points = 3
Wetland has a permanently flowing, unconstricted, surface outlet	points = 1
D 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic (use NRCS definitions of soils $YFS = \frac{1}{2}$	s) 3 NO = 0
D 1.3. <u>Characteristics of persistent vegetation</u> (Emergent, Scrub-shrub, and/or Forested Cowardin classes)	3 100 - 0
Wetland has persistent, ungrazed, vegetation for $> \frac{2}{3}$ of area	points = 5
Wetland has persistent, ungrazed, vegetation from $\frac{1}{3}$ to $\frac{2}{3}$ of area	points = 3
Wetland has persistent, ungrazed vegetation from $\frac{1}{10}$ to $<\frac{1}{3}$ of area	points = 1
Wetland has persistent, ungrazed vegetation $< \frac{1}{10}$ of area	points = 0
D 1.4. Characteristics of seasonal ponding or inundation:	
This is the area of ponding that fluctuates every year. Do not count the area that is permanently pond	
Area seasonally ponded is > ½ total area of wetland	points = 3
Area seasonally ponded is ¼ - ½ total area of wetland	points = 1
Area seasonally ponded is < ¼ total area of wetland	points = 0
Total for D 1 Add the points in the bo	oxes above
ating of Site Potential If score is:12- 16 = H6- 11 = M 0- 5 = L Record the	rating on the first p
	rating on the first p
D 2.0. Does the landscape have the potential to support the water quality function of the site?	rating on the first p
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes =	
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes =	= 1 No = 0
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes =  D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes =  D 2.3. Are there septic systems within 250 ft of the wetland?  Yes =	= 1 No = 0 = 1 No = 0
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes = D 2.3. Are there septic systems within 250 ft of the wetland?  Yes = D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions	= 1 No = 0 = 1 No = 0
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes = D 2.3. Are there septic systems within 250 ft of the wetland?  Yes = D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1- D 2.3? Source  Yes =	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1-D 2.3? Source  Yes =  Total for D 2  Add the points in the bo	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1- D 2.3? Source  Yes =  Total for D 2  Add the points in the bota ating of Landscape Potential  If score is:3 or 4 = H1 or 2 = M0 = L  Record the	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 oxes above
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes = D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1- D 2.3? Source  Yes = Total for D 2  Add the points in the bound of Landscape Potential of Score is:3 or 4 = H1 or 2 = M0 = L  Record the	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 expression on the first p
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes = D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1- D 2.3? Source  Yes = Total for D 2  Add the points in the bound of Landscape Potential  If score is:3 or 4 = H1 or 2 = M0 = L  Record the  D 3.0. Is the water quality improvement provided by the site valuable to society?  D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, or lake that is on the 303(d)	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 expression on the first p
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1- D 2.3? Source  Yes = Total for D 2  Add the points in the botating of Landscape Potential  If score is:3 or 4 = H1 or 2 = M0 = L  Record the  D 3.0. Is the water quality improvement provided by the site valuable to society?  D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, or lake that is on the 303(d) Yes =	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 exes above rating on the first part of the state of the stat
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes =  D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes =  D 2.3. Are there septic systems within 250 ft of the wetland?  Yes =  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions  D 2.1- D 2.3? Source  Yes =  Total for D 2  Add the points in the bound of Landscape Potential in the points of the wetland that are not listed in questions  D 3.0. Is the water quality improvement provided by the site valuable to society?  D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, or lake that is on the 303(d) Yes =  D 3.2. Is the wetland in a basin or sub-basin where water quality is an issue in some aquatic resource [303(d)]	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 exes above rating on the first part of the state of the stat
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes = D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3? Source Yes = Total for D 2  Add the points in the botating of Landscape Potential If score is:3 or 4 = H1 or 2 = M0 = L  Record the  D 3.0. Is the water quality improvement provided by the site valuable to society?  D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, or lake that is on the 303(d) Yes = D 3.2. Is the wetland in a basin or sub-basin where water quality is an issue in some aquatic resource [303(e) eutrophic lakes, problems with nuisance and toxic algae]?  D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality (c)	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 Expression on the first product of the control o
D 2.0. Does the landscape have the potential to support the water quality function of the site?  D 2.1. Does the wetland receive stormwater discharges?  Yes = D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?  Yes = D 2.3. Are there septic systems within 250 ft of the wetland?  D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3? Source  Yes = Total for D 2  Add the points in the botating of Landscape Potential If score is:3 or 4 = H1 or 2 = M0 = L  Record the  D 3.0. Is the water quality improvement provided by the site valuable to society?  D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, or lake that is on the 303(d) Yes = D 3.2. Is the wetland in a basin or sub-basin where water quality is an issue in some aquatic resource [303(e) eutrophic lakes, problems with nuisance and toxic algae]?  D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality (e)	= 1 No = 0 = 1 No = 0 = 1 No = 0 = 1 No = 0 = 2 No = 0   Iist? = 1 No = 0   Iist? = 1 No = 0   Iist, = 1 No = 0   Iist, = 2 No = 0

, 3	per box)
D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland:	
Wetland has no surface water outlet points :	= 8
Wetland has an intermittently flowing outlet points :	= 4
Wetland has a highly constricted permanently flowing outlet points :	= 4
Wetland has a permanently flowing unconstricted surface outlet points	= 0
(If outlet is a ditch and not permanently flowing treat wetland as "intermittently flowing")	
D 4.2. <u>Depth of storage during wet periods</u> : <i>Estimate the height of ponding above the bottom of the outlet. For</i>	
wetlands with no outlet, measure from the surface of permanent water or deepest part (if dry).	
Seasonal ponding: > 3 ft above the lowest point in wetland or the surface of permanent ponding points	
Seasonal ponding: 2 ft - < 3 ft above the lowest point in wetland or the surface of permanent pondingpoints	
The wetland is a headwater wetland points	
Seasonal ponding: 1 ft - < 2 ft points	
Seasonal ponding: 6 in - < 1 ft points:	
Seasonal ponding: < 6 in or wetland has only saturated soils points:	
Total for D 4 Add the points in the boxes abo	
Rating of Site Potential If score is: 12-16 = H 6-11 = M 0-5 = L Record the rating of Site Potential If score is: 12-16 = H 12-16 = H 13-16 = H 13	on the first page
D 5.0. Does the landscape have the potential to support the hydrologic functions of the site?	
D 5.1. Does the wetland receive stormwater discharges? Yes = 1 No	= 0
D 5.2. Is > 10% of the area within 150 ft of the wetland in a land use that generates runoff? Yes = 1 No:	= 0
D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses?	
Yes = 1 No:	= 0
Total for D 5 Add the points in the boxes abo	
<u>'</u>	
Rating of Landscape Potential If score is: 3 = H 1 or 2 = M 0 = L Record the rating of	Jii tile jiist page
D 6.0. Are the hydrologic functions provided by the site valuable to society?	
D 6.1. The wetland is in a landscape that has flooding problems.	
Choose the description that best matches conditions around the wetland being rated. Do not add points.  Choose the highest score if more than one condition is met.	
The wetland captures surface water that would otherwise flow down-gradient into areas where flooding has	,
damaged human or natural resources (e.g., houses or salmon redds), AND	,
Flooding occurs in sub-basin that is immediately down-gradient of wetland points :	= 2
Surface flooding problems are in a sub-basin farther down-gradient points:	= 1
The existing or potential outflow from the wetland is so constrained by human or natural conditions that the	
water stored by the wetland cannot reach areas that flood.	
Explain why points =	= 0
There are no problems with flooding downstream of the wetland points :	= 0
D 6.2. Has the site has been identified as important for flood storage or flood conveyance in a regional flood control plan?  Yes = 2 No:	
Total for D 6 Add the points in the boxes abo	
<u>'</u>	
Rating of Value If score is:2-4 = H1 = M0 = L Record the rating of Value If score is:2-4 = H1 = M0 = L	on the first page

**DEPRESSIONAL WETLANDS** 

**Hydrologic Functions** - Indicators that the site functions to reduce flooding and erosion.

Points (only 1 score

RIVERINE WETLANDS  Water Quality Functions - Indicators that the site functions to improve water quality	Points (only 1 score per box)
R 1.0. Does the site have the potential to improve water quality?	
R 1.1. Area of surface depressions within the Riverine wetland that can trap sediments during a flooding even	t:
Depressions cover $>^1/_3$ area of wetland points	s = 6
Depressions cover $> \frac{1}{10}$ area of wetland points	s = 3
Depressions present but cover $< \frac{1}{10}$ area of wetland points	s = 1
No depressions present points	s = 0
R 1.2. Structure of plants in the wetland (areas with >90% cover at person height; <b>not</b> Cowardin classes):	
Forest or shrub $> \frac{2}{3}$ the area of the wetland points	= 10
Forest or shrub $\frac{1}{3} - \frac{2}{3}$ area of the wetland points	s = 5
Ungrazed, herbaceous plants $> \frac{2}{3}$ area of wetland points	s = 5
Ungrazed herbaceous plants $\frac{1}{3} - \frac{2}{3}$ area of wetland points	s = 2
Forest, shrub, and ungrazed herbaceous $< \frac{1}{3}$ area of wetland points	s = 0
Total for R 1 Add the points in the boxes ab	oove

R 2.0. Does the landscape have the potential to support the water quality function of	f the site?	
R 2.1. Is the wetland within an incorporated city or within its UGA?	Yes = 2 No = 0	
R 2.2. Does the contributing basin include a UGA or incorporated area?	Yes = 1 No = 0	
R 2.3. Does at least 10% of the contributing basin contain tilled fields, pastures, or forests that within the last 5 years?	t have been clearcut Yes = 1 No = 0	
R 2.4. Is > 10% of the area within 150 ft of wetland in land uses that generate pollutants	Yes = 1 No = 0	
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in que	estions	
R 2.1-R 2.4? Source	Yes = 1 No = 0	
Total for R 2 Add the point	s in the boxes above	

Rating of Landscape Potential If score is: 3-6 = H 1 or 2 = M 0 = L Record the rating on the first page

R 3.0. Is the water quality improvement provided by the site valuable to society?	
R 3.1. Is the wetland along a stream or river that is on the 303(d) list or on a tributary that drains to one within 1 mi?	
Yes = 1 No = 0	
R 3.2. Does the river or stream have TMDL limits for nutrients, toxics, or pathogens? Yes = 1 No = 0	
R 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? Answer YES if there is a TMDL for the drainage in which wetland is found. Yes = 2 No = 0	
Total for R 3 Add the points in the boxes above	

Rating of Value If score is: 2-4 = H 1 = M 0 = L

Record the rating on the first page

<u>RIVERINE WETLANDS</u>		Points
Hydrologic Functions - Indicators that site functions to reduce flooding	and stream erosion	(only 1 score per box)
R 4.0. Does the site have the potential to reduce flooding and erosion?		
R 4.1. Characteristics of the overbank storage the wetland provides:		
Estimate the average width of the wetland perpendicular to the direction of the f	flow and the width of the	
stream or river channel (distance between banks). Calculate the ratio: (average v width of stream between banks).	vidth of wetland)/(average	
If the ratio is more than 2	points = 10	
If the ratio is 1-2	points = 8	
If the ratio is ½-<1	points = 4	
If the ratio is ¼-< ½	points = 2	
If the ratio is < 1/4	points = 1	
R 4.2. Characteristics of plants that slow down water velocities during floods: Treat large shrub. Choose the points appropriate for the best description (polygons need to	·	
height. These are NOT Cowardin classes).		
Forest or shrub for more than $^2/_3$ the area of the wetland	points = 6	
Forest or shrub for $\frac{1}{3}$ area OR emergent plants $\frac{2}{3}$ area	points = 4	
Forest or shrub for $> \frac{1}{10}$ area OR emergent plants $> \frac{1}{3}$ area	points = 2	
Plants do not meet above criteria	points = 0	
Fotal for R 5 Add the	e points in the boxes above	
R 5.0. Does the landscape have the potential to support the hydrologic function	ns of the site?	
· · · · · · · · · · · · · · · · · · ·	ns of the site?  Yes = 0 No = 1	
R 5.1. Is the stream or river adjacent to the wetland downcut?		
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?	Yes = 0 No = 1	
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?	Yes = 0 No = 1 Yes = 1 No = 0	
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the	Yes = 0 No = 1 Yes = 1 No = 0 Yes = 0 No = 1	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the ating of Landscape Potential If score is:3 = H1 or 2 = M0 = L	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  Pe points in the boxes above	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the string of Landscape Potential If score is:3 = H1 or 2 = M0 = L  R 6.0. Are the hydrologic functions provided by the site valuable to society?	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  Pe points in the boxes above  Record the rating on	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the string of Landscape Potential If score is:3 = H1 or 2 = M0 = L  R 6.0. Are the hydrologic functions provided by the site valuable to society?  R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  e points in the boxes above  Record the rating on  the description that best fits	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the string of Landscape Potential If score is:3 = H1 or 2 = M0 = L  R 6.0. Are the hydrologic functions provided by the site valuable to society?  R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the site.	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  e points in the boxes above  Record the rating on  the description that best fits	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the string of Landscape Potential If score is:3 = H1 or 2 = M0 = L  R 6.0. Are the hydrologic functions provided by the site valuable to society?  R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the site.  The sub-basin immediately down-gradient of site has surface flooding problems human or natural resources  Surface flooding problems are in a basin farther down-gradient	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  Perpoints in the boxes above  Record the rating on  the description that best fits  that result in damage to points = 2 points = 1	the first pag
R 6.0. Are the hydrologic functions provided by the site valuable to society?  R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the site.  The sub-basin immediately down-gradient of site has surface flooding problems human or natural resources	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  Perpoints in the boxes above  Record the rating on the description that best fits that result in damage to points = 2	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the stream of Landscape Potential of Score is:3 = H1 or 2 = M0 = L  R 6.0. Are the hydrologic functions provided by the site valuable to society?  R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the site.  The sub-basin immediately down-gradient of site has surface flooding problems human or natural resources Surface flooding problems are in a basin farther down-gradient No flooding problems anywhere downstream	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  Perpoints in the boxes above  Record the rating on  the description that best fits  that result in damage to points = 2 points = 1 points = 0  no a regional flood control	the first pag
R 5.1. Is the stream or river adjacent to the wetland downcut?  R 5.2. Does the up-gradient watershed include a UGA or incorporated area?  R 5.3. Is the up-gradient stream or river controlled by dams?  Total for R 5  Add the string of Landscape Potential If score is:3 = H1 or 2 = M0 = L  R 6.0. Are the hydrologic functions provided by the site valuable to society?  R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the site.  The sub-basin immediately down-gradient of site has surface flooding problems human or natural resources Surface flooding problems are in a basin farther down-gradient No flooding problems anywhere downstream  R 6.2. Has the site been identified as important for flood storage or flood conveyance in plan?	Yes = 0 No = 1  Yes = 1 No = 0  Yes = 0 No = 1  Perpoints in the boxes above  Record the rating on  the description that best fits  that result in damage to points = 2 points = 1 points = 0	the first pag

LAKE FRINGE WETLANDS  Water Quality Functions - Indicators that the site functions to improve water or	quality.	Points (only 1 score per box)
L 1.0. Does the site have the potential to improve water quality?		
L 1.1. Average width of plants along the lakeshore (use polygons of Cowardin classes):  Plants are more than 33 ft (10 m) wide  Plants are more than 16 ft (5 m) and < 33 ft (10 m) wide  Plants are more than 6 ft (2 m) and < 16 ft (5 m) wide  Plants are less than 6 ft wide  L 1.2. Characteristics of the plants in the wetland: Choose the appropriate description that resu points, and do not include any open water in your estimate of coverage. The herbaceous the dominant form or as an understory in a shrub or forest community. These are not Covor of cover is total cover in the wetland, but it can be in patches. Herbaceous does not include Cover of herbaceous plants is > 90% of the vegetated area  Cover of herbaceous plants is > 1/3 of the vegetated area  Cover of herbaceous plants is > 1/3 of the vegetated area  Other plants that are not aquatic bed > 2/3 wetland  Other plants that are not aquatic bed in > 1/3 vegetated area  Aquatic bed plants and open water cover > 2/3 of the wetland	plants can be either wardin classes. Area	
· · · · · · · · · · · · · · · · · · · ·	n the boxes above	

Rating of Site Potential If score is: 8-12 = H 4-7 = M 0-3 = L

Record the rating on the first page

L 2.0. Does the landscape have the potential to support the water quality function of the site?	
L 2.1. Is the lake used by power boats?	Yes = 1 No = 0
L 2.2. Is > 10% of the area within 150 ft of wetland on the upland side in land uses the	at generate pollutants?  Yes = 1 No = 0
L 2.3. Does the lake have problems with algal blooms or excessive plants such as mil	oil? Yes = 1 No = 0
Total for L 2 Add	he points in the boxes above

Rating of Landscape Potential If score is: 2 or 3 = H 1 = M 0 = L Record the rating on the first page

L 3.0. Is the water quality improvement provided by the site valuable t	o society?	
L 3.1. Is the lake on the 303(d) list of degraded aquatic resources?	Yes = 1 No = 0	
L 3.2. Is the lake in a sub-basin where water quality is an issue (at least one ac 303(d) list)?	quatic resource in the basin is on the Yes = 1 No = 0	
L 3.3. Has the site been identified in a watershed or local plan as important fo YES if there is a TMDL for the lake or basin in which wetland is found.	or maintaining water quality? <i>Answer</i> Yes = 2 No = 0	
Total for L 3	Add the points in the boxes above	

<u>Rating of Value</u> If score is: \_\_\_\_2-4 = H \_\_\_\_1 = M \_\_\_\_0 = L

Record the rating on the first page

<u>LAKE FRINGE WETLANDS</u> Hydrologic Functions - Indicators that the wetland unit functions to redu	ce shoreline erosion	Points (only 1 score per box)
L 4.0. Does the site have the potential to reduce shoreline erosion?		
L 4.1. Distance along shore and average width of Cowardin classes along the lakeshore (d Choose the highest scoring description that matches conditions in the wetland.	·	
> % of distance is Scrub-shrub or Forested at least 33 ft (10 m) wide	points = 6	
> ¾ of distance is Scrub-shrub or Forested at least 6 ft (2 m) wide	points = 4	
> ¼ distance is Scrub-shrub or Forested at least 33 ft (10 m) wide	points = 4	
Plants are at least 6 ft (2 m) wide (do not include Aquatic Bed)	points = 2	
Plants are less than 6 ft (2 m) wide (do not include Aquatic Bed)	points = 0	

Rating of Site Potential If score is: \_\_\_\_6 = M \_\_\_\_0-5 = L

Record the rating on the first page

L 5.0. Does the landscape have the potential to support hydrologic functions of the site?		
L 5.1. Is the lake used by power boats with more than 10 hp?	Yes = 1 No = 0	
L 5.2. Is the fetch on the lake side of the wetland at least 1 mile in distance?	Yes = 1 No = 0	
Total for L 5	Add the points in the boxes above	

Rating of Landscape Potential If score is: \_\_2 = H \_\_\_1 = M \_\_\_0 = L

Record the rating on the first page

L 6.0. Are the hydrologic functions provided by the site valuable to society?		
L 6.1. Are there resources, both human and natural, along the shore that can be impacted by erosic lf more than one resource is present, choose the one with the highest score.	n?	
There are human structures or old growth/mature forests within 25 ft of OHWM of the short wetland	e in the	
	points = 2	
There are nature trails or other paths and recreational activities within 25 ft of OHWM	points = 1	
Other resources that could be impacted by erosion	points = 1	
There are no resources that can be impacted by erosion along the shores of the wetland	points = 0	

<u>Rating of Value</u> If score is: \_\_\_2 = H \_\_\_\_1 = M \_\_\_\_0 = L

Record the rating on the first page

**NOTES and FIELD OBSERVATIONS:** 

SLOPE WETLANDS	Points (only 1
Water Quality Functions - Indicators that the site functions to improve water quality	score per box)
S 1.0. Does the site have the potential to improve water quality?	
S 1.1. Characteristics of average slope of wetland: (a 1% slope has a 1 ft vertical drop in elevation for every 100 ft of horizontal distance)	
Slope is 1% or less points = 3	
Slope is > 1% - 2% points = 2	
Slope is > 2% - 5% points = 1	
Slope is greater than 5% points = 0	
S 1.2. The soil 2 in below the surface (or duff layer) is true clay or tureorganic (use NRCS definitions): Yes = 3 No = 0	
S 1.3. Characteristics of the plants in the wetland that trap sediments and pollutants:	
Choose the points appropriate for the description that best fits the plants in the wetland. Dense means you	
have trouble seeing the soil surface (>75% cover), and uncut means not grazed or mowed and plants are	
higher than 6 in.	
Dense, uncut, herbaceous plants > 90% of the wetland area points = 6	
Dense, uncut, herbaceous plants > ½ of area points = 3	
Dense, woody, plants > ½ of area points = 2	
Dense, uncut, herbaceous plants > ¼ of area points = 1	
Does not meet any of the criteria above for plants points = 0	
Total for S 1 Add the points in the boxes above	
Rating of Site Potential If score is: 12 = H 6-11 = M 0-5 = L Record the rating on	the first page
S 2.0. Does the landscape have the potential to support the water quality function at the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in land uses that generate pollutants?	
Yes = 1 No = 0	

S 2.0. Does the landscape have the potential to support the water quality function at the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in land uses that generate pollutants?	
Yes = 1 No = 0	
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1?	I
Other sources Yes = 1 No = 0	
Total for S 2 Add the points in the boxes above	

Rating of Landscape Potential If score is: \_\_\_1-2 = M \_\_\_0 = L

Record the rating on the first page

S 3.0. Is the water quality improvement provided by the site valuable to society?	
S 3.1. Does the wetland discharge directly to a stream, river, or lake that is on the 303(d) list (within 1 mi)?	
Yes = 1 No = 0	
S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue? At least one aquatic resource in the	
basin is on the 303(d) list. Yes = 1 No = 0	
S 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality (answer	
YES if there is a TMDL for the drainage or basin in which wetland is found)? Yes = $2 \text{ No} = 0$	
Total for S 3 Add the points in the boxes above	

<u>Rating of Value</u> If score is: \_\_\_2-4 = H \_\_\_\_1 = M \_\_\_\_0 = L

Record the rating on the first page

SLOPE WETLANDS  Hydrologic Functions - Indicators that the site functions to reduce flood	ling and erosion	Points (only 1 score per box)
S 4.0. Does the site have the potential to reduce flooding and erosion?		
S 4.1. Characteristics of plants that reduce the velocity of surface flows during storms: C appropriate for the description that best fits conditions in the wetland. Stems of enough (usually > 1/8 in), or dense enough, to remain erect during surface flows.  Dense, uncut, rigid plants cover > 90% of the area of the wetland All other conditions		
Rating of Site Potential If score is:1 = M0 = L	Record the rating on t	he first page
S 5.0. Does the landscape have the potential to support the hydrologic function S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land uses that grunoff?		
Rating of Landscape Potential If score is:1 = M0 = L	Record the rating on t	L he first page
S 6.0. Are the hydrologic functions provided by the site valuable to society?		
S 6.1. Distance to the nearest areas downstream that have flooding problems:  The sub-basin immediately down-gradient of site has surface flooding problems human or natural resources (e.g., houses or salmon redds)  Surface flooding problems are in a sub-basin farther down-gradient  No flooding problems anywhere downstream	that result in damage to points = 2 points = 1 points = 0	
S 6.2. Has the site been identified as important for flood storage and flood conveyance plan?	in a regional flood control  Yes = 2 No = 0	
Total for S 6 Add the	e points in the boxes above	<u> </u>

Rating of Value If score is: \_\_\_2-4 = H \_\_\_\_1 = M \_\_\_\_0 = L

Record the rating on the first page

NOTES and FIELD OBSERVATIONS:

These questions apply to wetlands of all HGM classes.	(only 1
HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	score per box)
H 1.0. Does the wetland have the potential to provide habitat for many species?	
H 1.1. Structure of the plant community:  Check the Cowardin vegetation classes present and categories of emergent plants. Size threshold for each category is >= ¼ ac or >= 10% of the wetland if wetland is < 2.5 ac. Aquatic bed	
Emergent plants 0-12 in (0-30 cm) high are the highest layer and have > 30% cover  Emergent plants >12-40 in (>30-100 cm) high are the highest layer with >30% cover  Emergent plants > 40 in (> 100 cm) high are the highest layer with >30% cover  Scrub-shrub (areas where shrubs have >30% cover)  Forested (areas where trees have >30% cover)  3 checks: points = 2 2 checks: points = 1	
H 1.2. Is one of the vegetation types Aquatic Bed?  Yes = 1 No = 0	
H 1.3. Surface water  H 1.3.1. Does the wetland have areas of open water (without emergent or shrub plants) over at least ¼ ac OR  10% of its area during the March to early June OR in August to the end of September? Answer YES  for Lake Fringe wetlands.  Yes = 3 points & go to H 1.4 No = go to H 1.3.2  H 1.3.2. Does the wetland have an intermittent or permanent, and unvegetated stream within its boundaries,  or along one side, over at least ¼ ac or 10% of its area? Answer yes only if H 1.3.1 is No.  Yes = 3 No = 0	
H 1.4. Richness of plant species  Count the number of plant species in the wetland that cover at least 10 ft². Different patches of the same species can be combined to meet the size threshold. You do not have to name the species.  Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Russian olive, Phragmites, Canadian thistle, yellow-flag iris, and saltcedar (Tamarisk)  # of species Scoring: > 9 species: points = 2  4-9 species: points = 1  < 4 species: points = 0	
H 1.5. Interspersion of habitats  Decide from the diagrams below whether interspersion among types of plant structures (described in H 1.1), and unvegetated areas (open water or mudflats) is high, moderate, low, or none.  Use map of Cowardin and emergent plant classes prepared for questions H 1.1 and map of open water from H 1.3. If you have four or more plant classes or three classes and open water, the rating is always high.	Figure
None = 0 points  Low = 1 point  Moderate = 2 points	
All three diagrams in this row are  High = 3 points	
	1

Wetland name or number\_\_\_\_\_

H 1.6. Special habitat features  Check the habitat features that are present in the wetland. The number of checks is the number of points.  Loose rocks larger than 4 in OR large, downed, woody debris (> 4 in diameter) within the area of surface ponding or in stream.  Cattails or bulrushes are present within the wetland.  Standing snags (diameter at the bottom > 4 in) in the wetland or within 30 m (100 ft) of the edge.  Emergent or shrub vegetation in areas that are permanently inundated/ponded.  Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 45 degree slope) OR signs of recent beaver activity  Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, moss/ground cover)	
Total for H 1 Add the points in the boxes above	
Rating of Site Potential If score is:15-18 = H7-14 = M0-6 = L Record the rating on the first page	
H 2.0. Does the landscape have the potential to support habitat functions of the site?	
H 2.1. Accessible habitat (only area of habitat abutting wetland). If total accessible habitat is:	
Calculate: % undisturbed habitat + [(% moderate and low intensity land uses)/2] =%	
$> \frac{1}{3}$ (33.3%) of 1 km Polygon points = 3	
20-33% of 1km Polygon points = 2	
10-19% of 1km Polygon points = 1	
<10% of 1km Polygon points = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around wetland.	
Calculate: % undisturbed habitat + [(% moderate and low intensity land uses)/2] =%	
Undisturbed habitat > 50% of Polygon points = 3	
Undisturbed habitat 10 - 50% and in 1-3 patches points = 2	
Undisturbed habitat 10 - 50% and > 3 patches points = 1	
Undisturbed habitat < 10% of Polygon points = 0	
H 2.3. Land use intensity in 1 km Polygon:	
> 50% of Polygon is high intensity land use points = (- 2)	
Does not meet criterion above points = 0	
H 2.4. The wetland is in an area where annual rainfall is less than 12 in, and its water regime is not influenced by	
irrigation practices, dams, or water control structures. Generally, this means outside boundaries of	
reclamation areas, irrigation districts, or reservoirs  Yes = 3 No = 0	
Total for H 2 Add the points in the boxes above	
Rating of Landscape Potential If score is: 4-9 = H 1-3 = M < rate < 1 = L Record the rating on the first page	
H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose the highest score	
that applies to the wetland being rated	
Site meets ANY of the following criteria: points = 2	
It has 3 or more priority habitats within 100 m (see Appendix B)	
It provides habitat for Threatened or Endangered species (any plant or animal on state or federal lists)	
It is mapped as a location for an individual WDFW species	
It is a Wetland of High Conservation Value as determined by the Department of Natural Resources	
It has been categorized as an important habitat site in a local or regional comprehensive plan, in a	
Shoreline Master Plan, or in a watershed plan	
Site has 1 or 2 priority habitats within 100 m (see Appendix B) points = 1	
Site does not meet any of the criteria above points = 0	
Rating of Value If score is:2 = H1 = M0 = L Record the rating on the first page	

Wetland Rating System for Eastern WA: 2014 Update Rating Form – Effective January 1, 2015

#### **CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS**

Please determine if the wetland meets the attributes described below and circle the appropriate category. NOTE: A wetland may meet the criteria for more than one set of special characteristics. Record all those that apply. NOTE: All wetlands should also be characterized based on their functions.

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.	
SC 1.0. Vernal pools	
Is the wetland less than 4000 ft <sup>2</sup> , and does it meet at least two of the following criteria?	
— Its only source of water is rainfall or snowmelt from a small contributing basin and has no groundwater	
input.	
<ul> <li>Wetland plants are typically present only in the spring; the summer vegetation is typically upland</li> </ul>	
annuals. If you find perennial, obligate, wetland plants, the wetland is probably NOT a vernal pool.	
— The soil in the wetland is shallow [< 1 ft (30 cm)deep] and is underlain by an impermeable layer such as	
basalt or clay.	
<ul> <li>Surface water is present for less than 120 days during the wet season.</li> </ul>	
Yes – Go to SC 1.1 No = Not a vernal pool	
SC 1.1. Is the vernal pool relatively undisturbed in February and March?	
Yes – Go to SC 1.2 No = Not a vernal pool with special characteristics	
103 00 to 30 112 110 - 110t a vernal pool with special characteristics	
SC 1.2. Is the vernal pool in an area where there are at least 3 separate aquatic resources within 0.5 mi (other	Cat. II
wetlands, rivers, lakes etc.)? Yes = Category II No = Category III	
	Cat. III
SC 2.0. Alkali wetlands	
Does the wetland meet <b>one</b> of the following criteria?	
— The wetland has a conductivity > 3.0 mS/cm.	
— The wetland has a conductivity > 3.0 m3/cm.  — The wetland has a conductivity between 2.0 and 3.0 mS, and more than 50% of the plant cover in the	
wetland can be classified as "alkali" species (see Table 4 for list of plants found in alkali systems).	
• • • • • • • • • • • • • • • • • • • •	
— If the wetland is dry at the time of your field visit, the central part of the area is covered with a layer of	
salt.  OR does the wetland unit meet two of the following three sub-criteria?	
— Salt encrustations around more than 75% of the edge of the wetland	
— More than ¾ of the plant cover consists of species listed on Table 4	
·	
— A pH above 9.0. All alkali wetlands have a high pH, but please note that some freshwater wetlands	Cat. I
may also have a high pH. Thus, pH alone is not a good indicator of alkali wetlands.	
Yes = Category I No= Not an alkali wetland	
SC 3.0. Wetlands of High Conservation Value (WHCV)	
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High	
Conservation Value? Yes – Go to SC 3.2 No – Go to SC 3.3	
SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	Cat. I
Yes = Category I No = Not a WHCV	Cat. I
SC 3.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	
http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf	
Yes – Contact WNHP/WDNR and go to SC 3.4 No = Not a WHCV	
SC 3.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and it is listed	
on their website? Yes = Category I No =Not a WHCV	

SC 4.0 Bogs and Calcareous Fens	I
Does the wetland (or any part of the wetland unit) meet both the criteria for soils and vegetation in bogs or	1
calcareous fens? Use the key below to identify if the wetland is a bog or calcareous fen. <b>If you answer yes</b>	1
you will still need to rate the wetland based on its functions.	1
SC 4.1. Does an area within the wetland have organic soil horizons (i.e., layers of organic soil), either peats or	1
mucks, that compose 16 in or more of the first 32 in of the soil profile? See Appendix C for a field key to	1
identify organic soils. Yes – Go to <b>SC 4.3</b> No – Go to <b>SC 4.2</b>	1
SC 4.2. Does an area within the wetland have organic soils, either peats or mucks, that are less than 16 in deep over	1
bedrock or an impermeable hardpan such as clay or volcanic ash, or that are floating on top of a lake or	1
pond? Yes – Go to <b>SC 4.3</b> No = <b>Is not a bog for rating</b>	1
SC 4.3. Does an area within the wetland have more than 70% cover of mosses at ground level AND at least 30% of	I
the total plant cover consists of species in Table 5? Yes = Category I bog No – Go to SC 4.4	1
<b>NOTE:</b> If you are uncertain about the extent of mosses in the understory, you may substitute that criterion	1
by measuring the pH of the water that seeps into a hole dug at least 16 in deep. If the pH is less than 5.0	1
and the plant species in Table 5 are present, the wetland is a bog.	1
SC 4.4. Is an area with peats or mucks forested (> 30% cover) with subalpine fir, western red cedar, western	I
hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western white pine, AND any of the species	Cat. I
(or combination of species) listed in Table 5 provide more than 30% of the cover under the canopy?	Cat. I
Yes = <b>Category I bog</b> No – Go to <b>SC 4.5</b>	1
SC 4.5. Do the species listed in Table 6 comprise at least 20% of the total plant cover within an area of peats and	I
mucks? Yes = Is a Calcareous Fen for purpose of rating No – Go to SC 4.6	I
SC 4.6. Do the species listed in Table 6 comprise at least 10% of the total plant cover in an area of peats and mucks,	I
AND one of the two following conditions is met:	I
<ul> <li>— Marl deposits [calcium carbonate (CaCO₃) precipitate] occur on the soil surface or plant stems</li> </ul>	Cat. I
— The pH of free water is ≥ 6.8 AND electrical conductivity is ≥ 200 uS/cm at multiple locations within the	1
wetland Yes = Is a Category I calcareous fen No = Is not a calcareous fen	

SC 5.0. Forested Wetlands	
Does the wetland have an area of forest rooted within its boundary that meets at least one of	
the following three criteria? (Continue only if you have identified that a forested class is present in question H 1.1)	
<ul> <li>The wetland is within the 100 year floodplain of a river or stream</li> </ul>	
— Aspen ( <i>Populus tremuloides</i> ) represents at least 20% of the total cover of woody species	
— There is at least ¼ ac of trees (even in wetlands smaller than 2.5 ac) that are "mature" or	
"old-growth" according to the definitions for these priority habitats developed by WDFW	
(see definitions in question H3.1)	
Yes – Go to SC 5.1 No = Not a forested wetland with special characteristics	
SC 5.1. Does the wetland have a forest canopy where more than 50% of the tree species (by cover) are slow	Cat. I
growing native trees (see Table 7)? Yes = Category I No – Go to SC 5.2	
SC 5.2. Does the wetland have areas where aspen ( <i>Populus tremuloides</i> ) represents at least 20% of the total cover	Cat. I
of woody species? Yes = Category I No – Go to SC 5.3	
SC 5.3. Does the wetland have at least ¼ acre with a forest canopy where more than 50% of the tree species (by	Cat. II
cover) are fast growing species (see Table 7)?  Yes = Category II No – Go to SC 5.4	
SC 5.4. Is the forested component of the wetland within the 100 year floodplain of a river or stream?	Cat. II
Yes = Category II No = Not a forested wetland with special characteristics	
Category of wetland based on Special Characteristics	
Choose the highest rating if wetland falls into several categories	
If you answered No for all types, enter "Not Applicable" on Summary Form	

### **Appendix B: WDFW Priority Habitats in Eastern Washington**

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp. <a href="http://wdfw.wa.gov/publications/00165/wdfw00165.pdf">http://wdfw.wa.gov/publications/00165/wdfw00165.pdf</a> or access the list from here: <a href="http://wdfw.wa.gov/conservation/phs/list/">http://wdfw.wa.gov/conservation/phs/list/</a>)

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland: **NOTE:** This question is independent of the land use between the wetland and the priority habitat.

- **Aspen Stands:** Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- **Biodiversity Areas and Corridors**: Areas of habitat that are relatively important to various species of native fish and wildlife (*full descriptions in WDFW PHS report*).
- Old-growth/Mature forests: Old-growth east of Cascade crest \_ Stands are highly variable in tree species composition and structural characteristics due to the influence of fire, climate, and soils. In general, stands will be >150 years of age, with 10 trees/ac (25 trees/ha) that are > 21 in (53 cm) dbh, and 1-3 snags/ac (2.5-7.5 snags/ha) that are > 12-14 in (30-35 cm) diameter. Downed logs may vary from abundant to absent. Canopies may be single or multi-layered. Evidence of human-caused alterations to the stand will be absent or so slight as to not affect the ecosystem's essential structures and functions. Mature forests \_ Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west and 80-160 years old east of the Cascade crest.
- **Oregon White Oak:** Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (*full descriptions in WDFW PHS report p. 158 see web link above*).
- **Riparian**: The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- Instream: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
- **Caves:** A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- **Cliffs:** Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- **Talus:** Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- **Snags and Logs:** Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 12 in (30 cm)in eastern Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.
- **Shrub-steppe:** A nonforested vegetation type consisting of one or more layers of perennial bunchgrasses and a conspicuous but discontinuous layer of shrubs (see Eastside Steppe for sites with little or no shrub cover).
- **Eastside Steppe:** Nonforested vegetation type dominated by broadleaf herbaceous flora (i.e., forbs), perennial bunchgrasses, or a combination of both. Bluebunch wheatgrass (*Pseudoroegneria spicata*) is often the prevailing cover component along with Idaho fescue (*Festuca idahoensis*), Sandberg bluegrass (*Poa secunda*), rough fescue (*F. campestris*), or needlegrasses (*Achnatherum* spp.).
- **Juniper Savannah:** All juniper woodlands.

**Note:** All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

This page left blank intentionally