ATTACHMENTS 3- ECOS USA Wetland Analysis: Required maps, tables, and figures prepared online.

- ♦ ♦ WETLAND BOUNDARY AND 110FT CRITICAL AREA WETLAND BUFFERS MAP.
- Eastern WA. Wetland Rating.
- Wetland Determination Data Forms.
- Cowardin plant classes and classes of Emergents.
- Hydroperiods and Climate Maps. <u>Http://www.weather.gov/otx</u> and <u>www.weather.gov/wrh/climate?wfo=ot</u>.
- USFWS NWI 4K Map showing Boundary of Area within 150ft of the wetland.
- $\sqrt{\bullet}$ EXCEL TABLE WITH GPS COORDINATES.
- USFWS NWI 1 KM MAP.
- USFWS NWL "WETLANDS FEATURE" TABLES.
- WDFW Priority Habitat Map and Report.
- Water Quality CWA TMDL 303D Map "WATER QUALITY ATLAS" OF SITE AND SUBBASIN.
- USDA WEB SOIL SURVEY MAP "WEB SOIL SURVEY".
- WA DNR "Wetlands of High Conservation Value Map.
- WA DNR HYDROLAYER WATER TYPE FEATURES FOR SITE.
- \checkmark Cowardin "Wetland and Deepwater Habitats Classification".

· DNR Watertype Map

	name or number_WH	-1 Dau hello	<u>r</u> Sai	PJ	trans		•
Wetland	name or number wor	TDIUMPETE	= k Tua	SIAT	-/ Lonsen	ANON MEA	5/15+6/03/2025
OR	DATING	SIIMMA	RY - E	aste	n Was	hington	
Para	el# 25014,41	09-1630	W.EUCLI) Spe	skane W	205 pp 4	clic v1, 103/2025
Nan	ne of wetland (or ID #	#): DRUMHELLE	RSPRIN	SCree	<u> </u>	ate of site visit:	10.0101010
Rate	ed by <u>S.Collins</u>		Traine	d by Ecc	logy? V Ye	es No Date	of training <u>117202</u> 2
HGI	VI Class used for ratio	Rivering		Wetlan	d has multip	ole HGM classe	s?YN
1101		RURRI					
	NOTE: Form is not o	complete with	out the figu	res req	uested (figu	res can be com	bined).
	Source of base a	erial photo/ma	DUSDAI	VAIPI	APFO 615	Server Uni	me06/06/2025
Pl-eus	se see Attochmen	ts 3 of Cer	lified W	etlan	d Repo	vit,	
OVE	RALL WETLAND	CATEGOR	<u> </u>	ased or	functions	or special ch	naracteristics)
· .							
	1. Category of we	etland based	on FUNC	TIONS			Score for each
	1	ory I – Total sco	- 11 77	7.504	+ Wetlar	d Ruffer	function based on three
			40.0	. KOGI	inemont	AS NON	ratings
	Categ	ory II – Total so ory III – Total so	ore = $19-2$	I Tal	LENE	070110 2	(order of ratings is not
	Categ	ory III – Total s	core = $16-3$	18 CITI	1 of Spo	kane WA	important)
	Categ	ory IV – Total s	core = 9-15	5			9 = H,H,H
	FUNCTION	Improving	Hydrolo	gic	Habitat		8 = H,H,M
		Water Quality					7 = H,H,L
		<u></u>	the appropr			-	7 = H,M,M 6 = H,M,L
	Site Potential	H) M L	H M				6 = M,M,M
	Landscape Potential	H (M) L	H M	L H		TOTAL	5 = H,L,L
	Value	H M L	(H) M	L) M L	TOTAL	5 = M,M,L
	Score Based on Ratings	8	9		7	24	4 = M,L,L 3 = L,L,L
		1					,
	2. Category base	d on SDECIAL	CHARAC	TERIST	ICS of we	tland	
		ACTERISTIC			CA	TEGORY	
	Ci irii	///////////////////////////////////////			Circle the app	propriate category	
	Vernal Pools		-		II	III	
	Alkali	×				I	
	Wetland of High Con	servation Value				I	
· · ·	Bog and Calcareous	ens				I	

Old Growth or Mature Forest - slow growing

Old Growth or Mature Forest – fast growing

Bog and Calcareous Fens

Aspen Forest

Floodplain forest

None of the above

19. I

I

II

II

Depressional Wetlands

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

		ATTS
Map of:	To answer questions:	Figure #
Cowardin plant classes and classes of emergents	H 1.1, H 1.5	17
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	and the second
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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
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

X

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	L1.2	
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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
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 dense 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)	\$3.3	

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

JSC 6006 2025

2

* PARIX + CONSERVATION AREA Parce 1 25014,4609

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.

Does the entire unit meet both 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 **meet all** of the following criteria? _____The wetland is on a slope (*slope can be very gradual*),
 - 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 **without being impounded**.

NO - go to 3 YES – The wetland class is **Slope 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 meet all 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. Spokane River & Mernch OC. This Intermittent Creek, has a stonwater grate and is routed under ground stormwater NO - go to 4 City of Spokane Public Works Dept. YES - The wetland class is **Riverine NOTE:** The Riverine wetland can contain depressions that are filled with water when the river is not

flooding.

-

1

Ĵ

.

-

-

9

-

.

4. Is 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 Depressional

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

15. Gellis ECOSUSP 6/06/2025

Wetland name or number_

RIVERINE WETLANDS	Points (only 1 score
Hydrologic Functions - Indicators that site functions to reduce flooding and stream erosion	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 flow and the width of the stream or river channel (distance between banks). Calculate the ratio: (average width of wetland)/(average width of stream between banks). 244	
If the ratio is more than 2 points = 10	
If the ratio is 1-2 points = 8	(0
If the ratio is ½-<1 points = 4	
If the ratio is ¼-<½ points = 2	
If the ratio is < 1/2 points = 1	
R 4.2. Characteristics of plants that slow down water velocities during floods: Treat large woody debris as forest or shrub. Choose the points appropriate for the best description (polygons need to have > 90% cover at person height. These are NOT Cowardin classes).	
$\sqrt{1}$ Forest or shrub for more than $2/3$ the area of the wetland $\sqrt{1}$ points = 6	6
^V Forest or shrub for $>^{1}/_{3}$ area OR emergent plants $>^{2}/_{3}$ area points = 4	
Forest or shrub for $> 1/10$ area OR emergent plants $> 1/3$ area points = 2	
Plants do not meet above criteria points = 0	
Total for R 5 Add the points in the boxes above	16
R 5.0. Does the landscape have the potential to support the hydrologic functions of the site? R 5.1. Is the stream or river adjacent to the wetland downcut? $t_{o_1} h_{S_2} = 0$ No = 1	
Bat Habitat Caves, >20-25H bigh R 5.2. Does the up-gradient watershed include a UGA or incorporated area? (Hypf Spokance Yes = 1 No = 0	
R 5.3. Is the up-gradient stream or river controlled by dams? $Yes = 0$ No = 1) / .
Total for R 5 Add the points in the boxes above	2
Rating of Landscape Potential If score is: $3 = H \sqrt{1 \text{ or } 2} = M \sqrt{0} = L$ Record the rating of	on the first page
R 6.0. Are the hydrologic functions provided by the site valuable to society?	- 1
R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the description that best fits the site. The sub-basin immediately down-gradient of site has surface flooding problems that result in damage to human or natural resources Spokane kiver of Menach Or. City of spokane points = 2 Surface flooding problems are in a basin farther down-gradient Storm worker Reference points = 1 No flooding problems anywhere downstream Pond Faillaret Flooding 2024? points = 0	> 2
R 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	0
Total for R 6 Add the points in the boxes above	2
Rating of Value If score is: $\sqrt{2-4} = H$ $1 = M$ $0 = L$ Record the rating of the score is: $\sqrt{2-4} = H$	on the first page

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

3

<u>RIVERINE WETLANDS</u> Water Quality Functions - Indicators that the site functions to improve water quality	Points (only 1 scc
R 1.0. Does the site have the potential to improve water quality?	per box)
R 11 Area of surface depressions within the Riverine wetland that can trap sediments during a flooding event: Depressions cover $>^1/_3$ area of wetland	
Depressions cover > $\frac{1}{1_{10}}$ area of wetland points = 6	1
Depressions present but cover <1/	2
No depressions present	\rightarrow
R 1.2. Structure of plants in the wetland (areas with >90% cover at person height; not Cowardin classes):	
Forest or shrub $^{1}/_{3} - ^{2}/_{3}$ area of the wetland Forest or shrub $^{1}/_{3} - ^{2}/_{3}$ area of the wetland points = 5	10
Ungrazed, herbaceous plants $> 2/3$ area of wetland points = 5	10-1
Ungrazed herbaceous plants $\frac{1}{3} - \frac{2}{3}$ area of wetland points = 2	
Forest, shrub, and ungrazed herbaceous $< \frac{1}{3}$ area of wetland points = 0	
Total for R 1 Add the points in the boxes above	13
tating of Site Potential If score is: $\sqrt{12-16} = H$ 6-11 = M0-5 = L Record the rating on	
	the jirst pag
R 2.0. Does the landscape have the potential to support the water quality function of the site?	
R 2.1. is the wetland within an incorporated city or within its UGA? $C_1 + y_0 + S_{00} + S_{00} + M_{0}$ (Yes = 2) No = 0	2
R 2.2. Does the contributing basin include a UGA or incorporated area? By Want R V Yes = 1 No = 0	1
R 2.3. Does at least 10% of the contributing basin contain tilled fields, pastures, or forests that have been clearcut	
within the last 5 years? $Yes = 1$ No = 0	/
	1
$\sqrt{2.4.15} > 10\%$ of the area within 150 ft of wetland in land uses that generate pollutants $\sqrt{5}$ $\sqrt{2}$	<u> </u>
2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions	8
3.2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions	()
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source	- O
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source Yes = 1 No = 0 Total for R 2 Add the points in the boxes above	4
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source Yes = 1 No = 0 Total for R 2 Add the points in the boxes above	he first pag
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source Yes = 1 No = 0 Total for R 2 Add the points in the boxes above	he first pag
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source Yes = 1 (No = 0) Total for R 2 Add the points in the boxes above ating of Landscape Potential If score is: $\sqrt{3-6} = H$ 1 or $2 = M$ 0 = L Record the rating on the score is: $\sqrt{3-6} = H$ 1 or $2 = M$ 0 = L	H he first pag
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source Yes = 1 Total for R 2 Add the points in the boxes above ating of Landscape Potential If score is: V 3-6 = H 1 or 2 = M 0 = L 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	he first pag
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4? Source	he first pag
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions Yes = 1 No = 0 R 2.1-R 2.4? Source	he first pag
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions Yes = 1 No = 0 R 2.1-R 2.4? Source	1
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions Yes = 1 No = 0 R 2.1-R 2.4? Source	1
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions Yes = 1 No = 0 R 2.1-R 2.4? Source Yes = 1 No = 0 Total for R 2 Add the points in the boxes above ating of Landscape Potential If score is: V 3-6 = H 1 or 2 = M 0 = L Record the rating on the rational along a stream or river that is on the 303(d) list or on a tributary that drains to one within 1 mi? R 3.2. Does the river or stream have TMPL listing for the ration of	1

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

,

1

1.150 100 1

H 1.0. Does the wetland have the potential to provide habitat for many species? 000/ H 1.1. Structure of the plant community: 1/b Check the Cowardin vegetation classes present and categories of emergent plants. Size threshold for each category is > % ac or >= 10% of the wetland if wetland is < 2.5 ac.	These questions apply to wetlands of HABITAT FUNCTIONS - Indicators that site functions to pr	ovide important habitat	(only 1 score pe
H 1.1. Structure of the plant community: Check the Covardin vegetation classes present and categories of emergent plants. Size threshold for each category is >* Xe or >* 10% of the wetland if wetland is 2.5 ac. Aquatic bed Aquatic bed	H 1.0. Does the wetland have the potential to provide habitat f	or many species?	1
Check the Coverardin vegetation classes present and categories of emergent plants. Size threshold for each category is >> Xo cor >> 10% of the wetland if wetland is <2.5 a.c.			10
Line gent plants 912-40 in (>30-100 cm) high are the highest layer with >30% cover Forested (areas where shrubs have >30% cover) 4 or more checks: points = 3 2 checks: points = 1 1 check: points = 0 2 checks: points = 0 1 check: points = 1 1 check: points = 1 2 checks: points = 1 2 checks: points = 1 2 check: points = 1	Check the Cowardin vegetation classes present and categories category is >= ¼ ac or >= 10% of the wetland if wetland is < 2.5 Aquatic bed	o ac.	
y	$_{}$ Entergent plants >12-40 in (>30-100 cm) high are the high	est laver with S20% cover	
Low show the set of the second s	$\sqrt{\frac{\sqrt{\sqrt{2}}}{\sqrt{\frac{\sqrt{2}}{\sqrt{\frac{1}{2}}}}}}$ Scrub-shrub (areas where shrubs have 230% cover)		3
H 1.4. is one of the vegetation types Aquatic Bed? Yes = (No = 0) Image: Constraint of the sequence of the sequen	Check the Cowardin vegetation classes present and categories category is >= ¼ ac or >= 10% of the wetland if wetland is < 2.5 Aquatic bed \checkmark Emergent plants 0-12 in (0-30 cm) high are the highest lay \checkmark Emergent plants >12-40 in (>30-100 cm) high are the highest \checkmark Emergent plants > 40 in (> 100 cm) high are the highest lay \checkmark Scrub-shrub (areas where shrubs have >30% cover) \checkmark Forested (areas where trees have >30% cover)	3 checks: points = 2	Ŭ
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 1/4 ac OR 10% of its area during the March to early June OB*IN August to the end of September? Answer YES Jor Lake Fringe wetlands. Yes = 3 points & go to H 1.3.2 H 1.3.2. Does the wetland have an intermittent or permainent, and unvegetated stream within its boundaries, or along one side, over at least 1/4 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 ft ² . Different patches of the same species con be combined to meet the size threshold. You do not have to name the species. Do not include Eurosian milfoil, reed canarygrass, purple loosestrife, Russian olive, Phragmites, Canadian thistle, yellow-flog its, and saltcedar (Tamarisk) # of species _b	H 1.2. Is one of the vegetation types Aquatic Bed?		
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 Finge 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 permainent, 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 Eurosian milfoil, reed conarygrass, purple loosestrife, Russian olive, Phragmites, Canadian thistle, yellow-flag iris, and saltcedar (Tamarisk) Z 4 of species 10		$Yes = \begin{pmatrix} 1 & No = 0 \end{pmatrix}$	0
H 1.4. <u>Richness of plant species</u> Count the number of plant species in the wetland that cover at least 10 ft ² . 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 10	for Lake Fringe wetlands. Yes H 1.3.2. Does the wetland have an intermittent or permanent.	gust to the end of September? Answer YES = 3 points & go to H 1.4 No = go to H 1.3.2 nd unvegetated stream within its boundaries, Answer yes only if H 1.3.1 is No.	3
4-9 species: points = 1 < 4 species: points = 0	Do not include Eurasian milfoil, reed canarygrass, purple loosestr thistle, yellow-flag iris, and saltcedar (Tamarisk)	have to name the species. ife, Russian olive, Phragmites, Canadian	2
1.5. Interspersion of habitats Fibure		4-9 species: points = 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. None = 0 points I three diagrams in this row are gh = 3 points I three diagrams in th	1.5. Interspersion of habitats		
I three diagrams in this row are igh = 3 points Riparian braided channels with 2 classes	Use map of Cowardin and emergent plant classes propagad for an	pes of plant structures (described in H 1.1), re, low, or none.	Figure HZ
I three diagrams in this row are igh = 3 points Riparian braided channels with 2 classes)
gh = 3 points		Moderate = 2 points	2
Riparian braided channels with 2 classes			
		Riparian braided channels with 2 classes	
ating Form – Effective January 1, 2015			

Rating Form – Effective January 1, 2015

> Ð 9

Wetland name or number WU-1 DRUMHELLER SPRINGS CREEK Type N Waterbady

H 1.6. Special habitat features	1
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.	1
\overline{V} Standing snags (diameter at the bottom > 4 in) in the wetland or within 30 m (100 ft) of the edge.	2
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	1Z
Rating of Site Potential If score is:15-18 = $H / \sqrt{7-14} = M / \sqrt{0-6} = L$ Record the rating on the first page	Anneningen
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:	1
Calculate: % undisturbed habitat $10 + [(\% \text{ moderate and low intensity land uses})/2] 10 = 20\%$	
> $\frac{1}{3}$ (33.3%) of 1 km Polygon Bat Care Area . 20 points = 3	
20-33% of 1km Polygon points = 2	2
10-19% of 1km Polygon The	
10-19% of 1km Polygon 707, High Intensity points = 1 <10% of 1km Polygon 707, High Intensity points = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around wetland.	
Calculate: % undisturbed habitat $() + [(% moderate and low intensity land uses)/2] = 30 %$	
Undisturbed habitat > 50% of Polygon Audobann Park + Spokane River points=3	
Lindicturbed babitat 10 E0% and in 12 natches	2
Undisturbed habitat 10 - 50% and > 3 patches 707 Wigh There is the 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)	-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	0
Total for H 2 Add the points in the boxes above	2
ating of Landscape Potential If score is: $4-9 = (H \sqrt{1-3} = M) < 1 = L$ Record the rating on the first page	6
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? <i>Choose the highest score</i>	
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 Wotherd of Uick Concernation Value and the two data and two	
— 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	
ting of Value If score is: $\sqrt{2} = H$ $1 = M$ $0 = L$ Record the rating on the first page	
Wetland Rating System for Eastern WA: 2014 Undate	

Rating Form – Effective January 1, 2015

WH-I DRUMHELLER SPRINGS CREEK Type IN Waterbody Appendix B: WDFW Priority Habitats in Eastern Washington

Conservation AREA SPOK-ANE WA Priority habitats listed by WDFW (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. http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here:

http://wdfw.wa.gov/conservation/phs/list/)

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).

Here 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: <u>Old-growth east of Cascade crest</u> – 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. <u>Mature forests</u> – 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: Allajuniper woodlands.

Mote: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed

Wetland Rating System for Eastern WA: 2014 Update Effective January 1, 2015 Appendix B



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	Ι
Aspen Forest	I
Old Growth or Mature Forest – fast growing	II
Floodplain forest	II
None of the above	

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

Wetland name or number WU-12,+3. Drumbeller Springs Park/Conservation Area + Drumbeller Springs Creek Type N Water body Maps and figures required to answer questions correctly for Eastern Washington

Depressional Wetlands - WU-2

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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	-
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 - WU-1 "Drumheller Springs Creek-R4

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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
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	an ann an Anna ann an Anna an A

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 dense 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 polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
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	

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

tiand name or number_WU-2_PEMIC	Drumheller Springs Por	12/Conservation Area.	Spokeme WA,
---------------------------------	------------------------	-----------------------	-------------

DEPRESSIONAL WETLANDS	Points
Water Quality Functions - Indicators that the site functions to improve water quality	(only 1 score per box)
D 1.0. Does the site have the potential to improve water quality?	la di
© 1.1. Characteristics of surface water outflows from the wetland:	
Wetland has no surface water outlet	\supset
Wetland has an intermittently flowing outlet points = 3	-
Wetland has a highly constricted permanently flowing outlet points = 3	5
Wetland has a permanently flowing, unconstricted, surface outlet points = 1	
■ 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic (use NRCS definitions of soils) YES $\neq 3$ NO = 0) 0
© 1.3. Characteristics of persistent vegetation (Emergent, Scrub-shrub, and/or Forested Cowardin classes)	<u> </u>
Wetland has persistent, ungrazed, vegetation for $> \frac{2}{3}$ of area white Tailed Deer, points = 5	_
Wetland has persistent, ungrazed, vegetation from $\frac{1}{3}$ to $\frac{2}{3}$ of area points = 3	3
Wetland has persistent, ungrazed vegetation from $1/10$ to $< 1/3$ of area	
Wetland has persistent, ungrazed vegetation $< 1/10$ of areapoints = 0	a gala planta da mana da mana mataza da
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 ponded.	
Area seasonally ponded is > ½ total area of wetland points = 3	≥ 3
Area seasonally ponded is $\frac{1}{2}$ - $\frac{1}{2}$ total area of wetland points = 1	
Area seasonally ponded is < ½ total area of wetland points = 0	
Total for D 1 Add the points in the boxes above	11
ating of Site Potential If score is:12-16 = $H \stackrel{\bigvee}{-} 6-11 \neq M \stackrel{\bigcirc}{-} 0-5 = L$ Record the rating on the	e first page
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? Ash PI, Euclid + Liberty Drives. (Yes = 1 No = 0	1
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	0
D 2.3. Are there septic systems within 250 ft of the wetland? $Yes = 1$ No = 0	1
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions	2
D 2.1- D 2.3? SourceYes = 1 No = 0	0
Total for D 2 Add the points in the boxes above	
ating of Landscape Potential If score is:3 or 4 = $H \sqrt{_1}$ or 2 = M0 = L Record the rating on the	e first page
D 3.0. Is the water quality improvement provided by the site valuable to society?	
3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, or lake that is on the 303(d) list? Yes = 1 (No = 0)	0.
3.2. Is the wetland in a basin or sub-basin where water quality is an issue in some aquatic resource [303(d) list, eutrophic lakes, problems with nuisance and toxic algae]? $S_{pokare} River$ (Yes = 1 No = 0	/
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 the wetland is found)? (Yes = 2 No = 0)	2
Total for D 3 Add the points in the boxes above	8

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

5,0125 Ecos usp L/04/2025

-

Wetland name or number WU-2. PEMIC, Drumheller Springs Park/Conservation Area

DEPRESSIONAL WETLANDS	Points
river clogic Functions - Indicators that the site functions to reduce flooding and erosion.	(only 1 sc 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	
Wetland has an intermittently flowing outlet (points = 8)	
Wetland has a highly constricted normanical data and a second points = 4	2
	0
points = 0	
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 well.	
Seasonal ponding: > 3 ft above the lowest point in wetland or the surface of permanent ponding: 2 ft $- < 3$ ft above the lowest point in wetland or the surface of permanent ponding points = 8	
Seasonal ponding: 2 ft $- < 3$ ft above the lowest point in wetland or the surface of permanent ponding points = 8 The wetland is a headwater wetland	
Seasonal ponding: 1 ft - < 2 ft points = 4	
Seasonal ponding: 6 in - < 1 ft points = 4	
Seasonal ponding: < 6 in or wetland has only saturated calls	7
points = 0	
Rating of Site Potential If score is: $12-16 = H \sqrt{6-11} = M$	
$\frac{12-16}{1} = H \sqrt{6-11} = M \sqrt{0-5} = L \qquad Record the rating on the}$	e first na
)pu
0 5.0. Does the landscape have the potential to support the hydrologic functions of the site?	Verini Averazio
one boos the wettaild receive stormwater discharges? As Differentiate and the stormwater discharges?	
5.2. Is > 10% of the area within 150 ft of the wetland in a land use that generates runoff? Yes = 1 No = 0 Yes \neq 1 No = 0	1
53 is more than 25% of the weilland in a land use that generates runoff? Yes $\neq 1$ No = 0	1
5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses?	
	,
otal for D 5 Yes = 1 No = 0	1
otal for D 5 ting of Landscape Potential If score is: (2 = 1) 1 = 0 Add the points in the boxes above	3
Yes = 1 No = 0	
Otal for D 5Yes = 1No = 0Add the points in the boxes aboveAdd the points in the boxes aboveting of Landscape PotentialIf score is: $\sqrt{3} = H$ 1 or $2 = M$ 0 = LRecord the rating on the points in the boxes above	
Yes = 1 $No = 0$ $Yes = 1$ $No = 0$ Add the points in the boxes above Add the points in the boxes above $Example for D 5$ Add the points in the boxes above $Example for D 5$ Add the points in the boxes above $Example for D 5$ Add the points in the boxes above $Example for D 5$ Add the points in the boxes above $Example for D 5$ Add the points in the boxes above $Example for D 5$ $Becord$ the rating on the points $Example for D 5$ $Becord$ the rating on the points $Example for D 5$ $Becord$ the rating on the points $Example for D 5$ $Becord$ the rating on the points $Example for D 5$ $Becord$ the rating on the points $Example for D 5$ $Becord$ the rating on the points $Example for D 5$ $Becord$ $Example for D 5$ <	
$Yes = 1$ No = 0 $Yes = 1$ No = 0 Add the points in the boxes above $Sing$ of Landscape Potential If score is: $\3 = H$ 1 or 2 = M0 = L $Record$ the rating on the points $6.0.$ Are the hydrologic functions provided by the site valuable to society? $6.1.$ The wetland is in a landscape that has flooding problems	
Yes = 1 No = 0 $Yes = 1$ No = 0 Add the points in the boxes above $Sing of Landscape Potential$ If score is: $3 = H$ 1 or $2 = M$ 0 = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? 6.1. The wetland is in a landscape that has flooding problems. Choose the description that best matches conditions around the wetland L is in a landscape that has flooding problems.	
otal for D 5 Yes = 1 No = 0 ting of Landscape Potential If score is:3 = H1 or 2 = M0 = L Add the points in the boxes above 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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.	
Otal for D 5 Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above Example 1 or 2 = M0 = L Record the rating on the points 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the points 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 on it is not in the points.	
Otal for D 5 Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above Fing of Landscape Potential If score is:3 = H1 or 2 = M0 = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 rodde). AND	
Otal for D 5 Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above fing of Landscape Potential If score is:3 = H1 or 2 = M0 = L Record the rating on the points in the boxes above 6.0. Are the hydrologic functions provided by the site valuable to society? 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 Sockers K. points = 2	
Otal for D 5 Yes = 1 No = 0 Sting of Landscape Potential If score is:3 = H1 or 2 = M0 = L Add the points in the boxes above 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 Schome R, points = 2 Surface flooding problems are in a sub-basin farther down-gradient	
Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above G.O. Are the hydrologic functions provided by the site valuable to society? Record the rating on the journal of the site valuable to society? 6.0. Are the hydrologic functions provided by the site valuable to society? Society? 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 Sockorne R. points = 2 Surface flooding problems are in a sub-basin farther down-gradient Menach Dr. points = 1	
Otal for D 5 Add the points in the boxes above Sting of Landscape Potential If score is:3 = H1 or 2 = MO = L Record the rating on the points in the boxes above 6.0. Are the hydrologic functions provided by the site valuable to society? 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 Sockemer R, points = 2 Surface flooding problems are in a sub-basin farther down-gradient of Meriach Dr, 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.	
Otal for D 5 Add the points in the boxes above ting of Landscape Potential If score is:3 = H1 or 2 = MO = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 Sockown K. points = 2 points = 1 Surface flooding problems are in a sub-basin farther down-gradient D Menach Dr. 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	
Otal for D 5 Add the points in the boxes above ting of Landscape Potential If score is:3 = H 1 or 2 = M 0 = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 Schort K, points = 2 points = 1 Surface flooding problems are in a sub-basin farther down-gradient D Menach Dr, points = 2 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	
Otal for D 5 Add the points in the boxes above ting of Landscape Potential If score is:3 = H 1 or 2 = M 0 = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 Schort K, points = 2 points = 1 Surface flooding problems are in a sub-basin farther down-gradient D Menach Dr, points = 2 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	
Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above Fing of Landscape Potential If score is:3 = H1 or 2 = M0 = L Record the rating on the points 6.0. Are the hydrologic functions provided by the site valuable to society? Score the rating on the points Record the rating on the points 6.0. Are the hydrologic functions provided by the site valuable to society? Score the rating on the points Record the rating on the points 6.0. Are the hydrologic functions provided by the site valuable to society? Score the rating on the points are points Record the rating on the points 6.0. Are the hydrologic functions provided by the site valuable to society? Score the highest score if more than one 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 So Kowner R, points = 2 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	first page
Otal for D 5 Add the points in the boxes above ting of Landscape Potential If sco(e is:3 = H)1 or 2 = M0 = L Record the rating on the points in the boxes above 6.0. Are the hydrologic functions provided by the site valuable to society? 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 Scheme K, points = 2 Surface flooding problems are in a sub-basin farther down-gradient O Memathor, Dr., 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. points = 0 2. Has the site has been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = No = 0	
Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above <td>first page</td>	first page
Yes = 1 No = 0 Add the points in the boxes above ting of Landscape Potential If sco e is:3 = H1 or 2 = M0 = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 So kowner, R., points = 2 points = 1 Surface flooding problems are in a sub-basin farther down-gradient Memach Or, 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	first page
Yes = 1 No = 0 Add the points in the boxes above ting of Landscape Potential If sco(e is:3 = H)1 or 2 = M0 = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 So Kown K, points = 2 Surface flooding problems are in a sub-basin farther down-gradient Or Meriach Dr, 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	first page
Otal for D 5 Add the points in the boxes above ting of Landscape Potential If score is:3 = H1 or 2 = MO = L Record the rating on the j 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the j 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 Sockern K, points = 2 points = 1 Surface flooding problems are in a sub-basin farther down-gradient D Menach Dr, 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	first page
Yes = 1 No = 0 Add the points in the boxes above Add the points in the boxes above Sing of Landscape Potential If score is:3 = H1 or 2 = M0 = L Record the rating on the points in the boxes above 6.0. Are the hydrologic functions provided by the site valuable to society? Record the rating on the points in the boxes above 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 Sokame K, points = 2 Surface flooding problems are in a sub-basin farther down-gradient Menach Dr, 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	first page

/etland name or number_	WUZPEMIC	Drumheller	Springs	Park.	Spokane, 1	NA.
					1	

These questions apply to wetlands of all HGM classes. HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	(only 1 score per
H 1.0. Does the wetland have the potential to provide habitat for many species?	box)
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 > 20% envery	
V Emergent plants >12-40 in (>30-100 cm) high are the highest layer with >30% cover V Emergent plants > 40 in (> 100 cm) high are the highest layer with >30% cover V Scrub-shrub (areas where shrubs have >30% cover) V Forested (areas where trees have >30% cover) 4 or more checks: points = 3 2 checks: points = 1 1 check: points = 0 H 1.2. Is one of the vegetation types Aquatic Bed?	ઝ
$1e_{3} - \mu \text{NO} = 0$	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. 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 	3
Count the number of plant species in the wetland that cover at least 10 ft ² . 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 10 # of species 10 Coring: > 9 species: points = 1 < 4 species: points = 0	2
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. None = 0 points three diagrams in this row are gh = 3 points	Figure
Riparian braided channels with 2 classes	

Wetland name or number WWZ PEMIC Drumheller Springs Park/Conservation Area Spokane WA,

 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 	
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	
slope) OR signs of recent beaver activity	3
Invasive species cover less than 20% in each stratum of vegetation (canopy, sub-canopy, shrubs, herbaceous, moss/ground cover)	-
Fotal for H 1 Add the points in the boxes above	B

H 2.0. Does the landscape have the potential to support habitat functions of the site?	
the stand with a stand of the s	
Calculate: % undisturbed habitat $()$ + [(% moderate and low intensity land uses)/2] \bigcirc = \bigcirc %	
$> \frac{1}{2}(33.3\%)$ of 1 km Polygon $\frac{1}{2}$ you all Reals Suggest and $\frac{1}{2}(31.3\%)$	
20-33% of 1km Polygon Camas Wot Mendow + Drumheller Senhas (points = 2)	γ
10-19% of 1km Polygon of COL.	d_
<10% of 1km Polygon points = 0	*
H 2.2. Undisturbed habitat in 1 km Polygon around wetland.	
<i>Calculate:</i> % undisturbed habitat $0 + [(\% moderate and low intensity land uses)/2] 30 = 30 \%$	
Lindisturbed habitat > 50% of Polygon points = 3	-
Undisturbed habitat 10 - 50% and in 1-3 patches	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	- 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	0
reclamation areas, irrigation districts, or reservoirs $Yes = 3$ No = 0	
Total for H 2 Add the points in the boxes above	2

<1 = L Record the rating on the first page</pre> Rating of Landscape Potential If score is: 4-9 = H / 1-3 = M

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	2
$\frac{\sqrt{2}}{10}$ It has 3 or more priority habitats within 100 m (see Appendix B)	
It has 3 or more priority habitats within 100 m (see Appendix B) $\frac{\sqrt{2}}{\sqrt{2}}$ It provides habitat for Threatened or Endangered species (any plant or animal on state or federal lists)	
V It is manned as a location for an individual WDFW species Kroul h bat	
t 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	
points = 1	
Site has 1 or 2 priority habitats within 100 m (see Appendix B) points = 1 points = 0	
Site does not meet any of the criteria above points = 0	
Pating of Value If score is: $1/2 = H$ $1 = M$ $0 = L$ Record the rating on the first page	

Rating of Value If score is: 1/2 = H

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

MU-Z PEMIC WHLAD Appendix B: WDFW Priority Habitats in Eastern Washington

Priority habitats listed by WDFW (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. http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here:

http://wdfw.wa.gov/conservation/phs/list/)

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).

 \checkmark 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). Brown Bat

Old-growth/Mature forests: <u>Old-growth east of Cascade crest</u> – 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. <u>Mature forests</u> – 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. >110 yrs old Pacific Willow

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.

Wetland Rating System for Eastern WA: 2014 Update 575+21

Wetland Rating System for Eastern WA: 2014 Update Effective January 1, 2015 Appendix B

SCOLL ACOS USA 6/06/2025.

Appendix B: WDFW Priority Habitats in Eastern Washington

Priority habitats listed by WDFW (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. http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here:

http://wdfw.wa.gov/conservation/phs/list/)

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). Brown Bat, Frishwater Emergent Wetlands,

Old-growth/Mature forests: <u>Old-growth east of Cascade crest</u> – 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. <u>Mature forests</u> – 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 oldgrowth; 80-200 years old west and 80-160 years old east of the Cascade crest. Pacific Willows > 110 Yews -

 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. Downheller Oprings Creek Type N. 51° F 6/03/0025. - Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or

- 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. Above E. Cliffs 5076 Slopes

 \checkmark Brown Bat, Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation. $\sim 20 - 2.5'(H)$

<u>J</u> 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.

Wetland Rating System for Eastern WA: 2014 Update

Effective January 1, 2015

Appendix B

15.6lbs ECOS LISA 6/06/2025.



		~ (> 110	$\lambda = \Lambda$	il a Dila
Wetland name or number WUL City of Spokane P RATING	-3 Drumhell	er Springst eation Dept. DV - Fact	ark/Long Spakan	ervation Ar Co. WA. Shington	e a Vernal Fools Arra
KATING	SUIVIIVIA	KI - Lasi		5.01	
Name of wetland (or ID #	+): <u>Drumhelle</u>	r Springs Po	cology? V	Date of site visit	$\frac{5}{15} - \frac{6}{13} = \frac{202}{202}$
HGM Class used for ratin	18 Depression	wet	and has mult	iple HGM classe	es?/_YN
NOTE: Form is not of Source of base a Lo Lo Lo (2025, Please OVERALL WETLAND	complete withour erial photo/map se see Attac CATEGORY	ut the figures r USDA NA hments 366 TL (based	equested (fig IPAPPOG ^m Certifier on functions	ures can be con 15 Server O Welland R or special c	nbined). hline eport. haracteristics)
Categ	ory I – Total sco ory II – Total sco ory III – Total sco	re = 22-27 ore = 19-21 ore = 16-18	ns n/A		Score for each function based on three ratings (order of ratings is not important)
Categ	ory IV – Total so	ore = 9-15			9 = H,H,H
FUNCTION	Improving Water Quality	Hydrologic	Habitat		8 = H,H,M 7 = H,H,L
	Circle	the appropriate ro	T	_	7 = H,M,M
Site Potential	HML	HML	HML	_	6 = H, M, L
Landscape Potential	HML	H M L	HML		6 = M,M,M 5 = H,L,L
Value	HML	HML	HML	TOTAL	5 = M,M,L
Score Based on Ratings	-				4 = M,L,L 3 = L,L,L
\checkmark 2. Category base	d on SPECIAL	CHARACTER	STICS of wo	etland	
	ACTERISTIC		C/	ATEGORY opropriate categor	γ
Vernal Pools (150	Wetland But	for per	(II) Ш	ZDOFT
	Spokane Table	•		I	Regurid
Wetland of High Con		- I to vivenv	7	I	Refland
Bog and Calcareous F				I.	TABLE 17.E.
Old Growth or Matur		rowing		I	070.110.3
Aspen Forest				I	a contraction of
Old Growth or Matu	re Forest – fast gr	owing		11	
Floodplain forest		and a second sec	4	II	
None of the above					

VS. Other 2005 USA 4/04/2023,

1

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

2

d d d d d d d d

19

Wetland Type	Categor
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 ² , and does it meet at least two of the following criteria? Us only source of water is rainfall or snowmelt from a small contributing basin and has no groundwater input.	
 Wetland plants are typically present only in the spring; the summer vegetation is typically upland 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 	58 1
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	
SC 1.2. Is the vernal pool in an area where there are at least 3 separate aquatic resources within 0.5 mi (other wetlands, rivers, lakes etc.)? PEMIC- RYRBI - Drumhelle Ves = Category II No = Category III Springs Creek Type N Waterbody + Vernals Pools across the street.	Cat. II Cat. III
SC 2.0. Alkali wetlands O Ash Pl. + Liberty Dr. Camas Wet Meadow Plant Assoc	17
a muto Dokane Kiver al Manal	Ċ
The wettand has a conductivity > 5.0 ms/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	
may also have a high pH. Thus, pH alone is not a good indicator of alkali wetlands.	Cat. I
Yes = Category I No= Not an alkali wetland	
	1
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?	
C 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	
Yes = Category I No = Not a WHCV	Cat. I
C 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	
C2.4 Has WDND Hartford Har at the state of t	
C 3.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and it is listed	

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

VS. GELCS ZEOSTUSA 6/4/2005

Project/Site: <u>WW-1 Drumheller Springs (reek</u> City/County: <u>Spoke</u> Applicant/Owner: <u>D.Flynn (on behalf Concerned Companions</u> Investigator(s): <u>S. Collins+B. Kinara</u> Section, Township, Ran Landform (hillslope, terrace, etc.): <u>basalt riverinterrace</u> . Local relief (concave, or Subregion (LRR): <u>Arid West</u> <u>E bat 467273</u> <u>Al</u> Soil Map Unit Name: <u>3117 Northstar-RockOutcrop-Rockly-Cocourt</u> Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>No</u> Are Vegetation <u>Soil</u> , or Hydrology <u>Y</u> significantly disturbed? Are 'the	# 25219.4609 99005
Are Vegetation, Soil, or Hydrology naturally problematic? F (If new SUMMARY OF FINDINGS – Attach site map showing sampling point lo	
Hydrophytic Vegetation Present? Yes No Is the Sampled Hydrophytic Vegetation Present? Yes No within a Wetland Hydrophytic Vegetation Present? Yes No within a Wetland Wetland Hydrology Present? Yes No within a Wetland Remarks: #25014.4609-0 wner City of Spokane Parks Farce1 # 25014.4609 - 0 wner City of Spokane Parks F, - 51 No. Slope- Bat Cave, Cliff - 20-25 (H) Right 1 Sight 1	Area d? Yes No
VEGETATION Use scientific names of plants.	
Tree Stratum (Plot size: 30×30) Absolute % Cover % Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
<u>Woody Vine Stratum</u> (Plot size: <u>30×30</u>) <u>1. Vingen Grouppor Parthemocissus</u> <u>3</u> <u>N</u> <u>FACY</u> <u>2</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <u>No</u>

VS. Elle ELOS 4000 6/10/2025 +6/14/2025

Intro Intro

đ

Matrix	he depth needed to docume Redox	Features	-	2
s) Color (moist)	% Color (moist)	<u>% Type¹ Loc²</u>	Texture	CFPOM & Ashv
			12	CPPOINT HSNV
, b '	10YR 312	K PL	SSSP	13rownsiltwam Very Lo
	1			Thick Portsurface,
77				Basalt Bedrock
				Mudium Fin Rosts.
				- CUTTO - LUTTO
		-	-	Oxidized. Motfled.
C=Concentration, D=Depletio	RM=Reduced Matrix CS	Covered or Coated Sand	Grains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Soil Indicators: (Applicable	to all LRRs, unless otherw	vise noted.)	Indicato	rs for Problematic Hydric Soils ³ :
itosol (A1)	Sandy Redox (S5	5)		Muck (A10)
tic Epipedon (A2) "Mollic	Stripped Matrix (S			Parent Material (TF2)
ick Histic (A3)		neral (F1) (except MLRA		r Shallow Dark Surface (TF12) ar (Explain in Remarks)
drogen Sulfide (A4)	Loamy Gleyed Ma			a (Explain in Remains)
pleted Below Dark Surface (A	11) Depleted Matrix (³ Indicato	rs of hydrophytic vegetation and
ck Dark Surface (A12) ndy Mucky Mineral (S1)	Depleted Dark Suna			nd hydrology must be present,
ndy Gleyed Matrix (S4)	Redox Depression			s disturbed or problematic.
tive Layer (if present):	/			
Basalt Bedi	ock.		· · · · · ·	the second second
th (inches): <u>36</u>			Hydric Soil	Present? Yes No
1 MAPS+ DKSE.	A wetland Repo	and me to II with	schmend	م هي
DLOGY d Hydrology Indicators:	l Wetland Repo	2 mp		
DLOGY d Hydrology Indicators:	equired; check all that apply)		Secon	dary Indicators (2 or more required)
DLOGY d Hydrology Indicators: ndicators (minimum of one r frace Water (A1)	equired; check all that apply)	ad Leaves (89) (except	Secon	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2,
DLOGY d Hydrology Indicators: <u>n Indicators (minimum of one r</u> rface Water (A1) h Water Table (A2)	equired; check all that apply) Water-Staine MLRA 1,	ed Leaves (89) (except 2, 4A, and 4B)	<u>Secon</u>	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
DLOGY d Hydrology Indicators: <u>n Indicators (minimum of one r</u> rface Water (A1) h Water Table (A2) turation (A3)	equired: check all that apply) Water-Staine MLRA 1, Salt Crust (B	ad Leaves (89) (except 2, 4A, and 4B) 811)	<u>Secon</u> W w	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10)
DLOGY d Hydrology Indicators: n Indicators (minimum of one r rface Water (A1) h Water Table (A2) turation (A3) tter Marks (B1)	equired; check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	ed Leaves (89) (except 2, 4A, and 4B) 811) rtebrates (813)	<u>Secon</u> V/ Dr Dr	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2)
DLOGY d Hydrology Indicators: Indicators (minimum of one r frace Water (A1) the Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2)	equired; check all that apply) <u>V</u> Water-Staine MLRA 1, Salt Crust (B <u>V</u> Aquatic Inver Hydrogen Stu	ed Leaves (89) (except 2, 4A, and 4B) 811) rtebrates (813) ulfide Odor (C1)	<u>Secon</u> ₩ Dr Sa	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10)
DLOGY d Hydrology Indicators: <u>Indicators (minimum of one r</u> frace Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3)	equired: check all that apply) <u>V</u> Water-Staine MLRA 1, Satt Crust (B <u>V</u> Aquatic Inver Mydrogen Su Oxidized Rhi	ed Leaves (89) (except 2, 4A, and 4B) 311) rtebrates (813) ulfide Odor (C1) izospheres along Living Ro	<u>Secon</u> W Dr Dr Sz pots (C3) Ge	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9)
DLOGY d Hydrology Indicators: Indicators (minimum of one r frace Water (A1) h Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) it Deposits (B3) al Mat or Crust (B4)	equired: check all that apply) <u> </u> Water-Staine MLRA 1, Satt Crust (B <u> </u> Aquatic Inven Hydrogen Su — Oxidized Rhi — Presence of	ed Leaves (89) (except 2, 4A, and 4B) 311) rtebrates (813) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4)	<u>Secon</u> ↓↓ w Dr Sr pots (C3) Ge St	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) b Deposits (B5)	equired: check all that apply) Water-Staine MLRA 1, Satt Crust (B Aquatic Inves Hydrogen Su Oxidized Rhii Presence of Recent Iron F	ed Leaves (89) (except 2, 4A, and 4B) 311) rtebrates (813) ulfide Odor (C1) izospheres along Living Ro	<u>Secon</u> ↓ W Dr Dr Sr pots (C3) Ge Sf 56) F/ A) Ra	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) IC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6)	equired: check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent Iron F Stunted or St	ed Leaves (89) (except 2, 4A, and 4B) 311) rtebrates (813) utifide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C	<u>Secon</u> ↓ W Dr Dr Sr pots (C3) Ge Sf 56) F/ A) Ra	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) indation Visible on Aerial Imag	equired: check all that apply) Water-Staine MLRA 1, Sait Crust (B Aquatic Inver Hydrogen Sti Oxidized Rhi Presence of I Recent Iron F Stunted or St ery (B7) Other (Explain	ed Leaves (89) (except 2, 4A, and 4B) 811) rtebrates (813) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR	<u>Secon</u> ↓ W Dr Dr Sr pots (C3) Ge Sf 56) F/ A) Ra	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) IC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) fiment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) indation Visible on Aerial Imag ursely Vegetated Concave Sur bservations:	equired; check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron F Stunted or St ery (B7) Other (Explain frace (B8)	ed Leaves (89) (except 2, 4A, and 4B) 311) rtebrates (813) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR) in in Remarks)	<u>Secon</u> ↓ W Dr Dr Sr pots (C3) Ge Sf 56) F/ A) Ra	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) IC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) fiment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) h Deposits (B5) face Soil Cracks (B6) ndation Visible on Aerial Imag ursely Vegetated Concave Sur bservations:	equired: check all that apply) Water-Staine MLRA 1, Sait Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent Iron F Stunted or St ery (B7) Other (Explain frace (B8)	ed Leaves (B9) (except 2, 4A, and 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks)	<u>Secon</u> ↓ W Dr Dr Sr pots (C3) Ge Sf 56) F/ A) Ra	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) IC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) indation Visible on Aerial Imag ursely Vegetated Concave Sur bservations: Water Present? Yes_ able Present? Yes_	equired; check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent Iron F Stunted or SI ery (B7) Other (Explain fface (B8) No Depth (incher	ed Leaves (B9) (except 2, 4A, and 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): <u>0-111</u> es): <u>0-111</u>	<u>Secon</u> Dr Dr Sa pots (C3) Ge Sh (C5) FA A) Ra Fn	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) truration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) fiment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) h Deposits (B5) face Soil Cracks (B6) indation Visible on Aerial Imag misely Vegetated Concave Sur bservations: Water Present? Yes_ able Present? Yes_	equired: check all that apply) Water-Staine MLRA 1, Sait Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent Iron F Stunted or St ery (B7) Other (Explain frace (B8)	ed Leaves (B9) (except 2, 4A, and 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): <u>0-111</u> es): <u>0-111</u>	<u>Secon</u> Dr Dr Sa pots (C3) Ge Sh (C5) FA A) Ra Fn	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) IC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A)
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) indation Visible on Aerial Imag insely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes on Present? Yes	equired: check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent Iron F Stunted or St ery (B7) Other (Explain frace (B8) No Depth (inche	ed Leaves (B9) (except 2, 4A, and 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR $\frac{1}{10000000000000000000000000000000000$	Secon Image: Construction Image: Construction Image: Constretion	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) truration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
DLOGY d Hydrology Indicators: Indicators (minimum of one r frace Water (A1) h Water Table (A2) suration (A3) ter Marks (B1) diment Deposits (B2) it Deposits (B3) al Mat or Crust (B4) n Deposits (B5) frace Soil Cracks (B6) indation Visible on Aerial Imag arsely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes on Present? Yes	equired: check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent Iron F Stunted or St ery (B7) Other (Explain frace (B8) No Depth (inche	ed Leaves (B9) (except 2, 4A, and 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR $\frac{1}{10000000000000000000000000000000000$	Secon Image: Construction Image: Construction Image: Constretion	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) truration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
DLOGY d Hydrology Indicators: r Indicators (minimum of one r frace Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) fit Deposits (B3) al Mat or Crust (B4) th Deposits (B5) frace Soil Cracks (B6) indation Visible on Aerial Image arsely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes on Present? Yes s capillary fringe) e Recorded Data (stream gau	equired: check all that apply)	ad Leaves (B9) (except 2, 4A, and 4B) Bill) rtebrates (B13) utfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{1/2}$ es): $O_{-1}^{1/2}$ es): $O_{-1}^{1/2}$ ves): $O_{-1}^{1/2}$ (Wei otos, previous inspections)	Secon Image: Construction of the second s	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) truration Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) AC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) Present? Yes No
DLOGY d Hydrology Indicators: r Indicators (minimum of one r frace Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) fit Deposits (B3) al Mat or Crust (B4) th Deposits (B5) frace Soil Cracks (B6) indation Visible on Aerial Image arsely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes on Present? Yes s capillary fringe) e Recorded Data (stream gau	equired: check all that apply)	ad Leaves (B9) (except 2, 4A, and 4B) Bill) rtebrates (B13) utfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{1/2}$ es): $O_{-1}^{1/2}$ es): $O_{-1}^{1/2}$ ves): $O_{-1}^{1/2}$ (Wei otos, previous inspections)	Secon Image: Construction of the second s	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) truration Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) AC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) Present? Yes No
DLOGY d Hydrology Indicators: r Indicators (minimum of one r frace Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) fit Deposits (B3) al Mat or Crust (B4) th Deposits (B5) frace Soil Cracks (B6) indation Visible on Aerial Image arsely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes on Present? Yes s capillary fringe) e Recorded Data (stream gau	equired: check all that apply)	ad Leaves (B9) (except 2, 4A, and 4B) Bill) rtebrates (B13) utfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{1/2}$ es): $O_{-1}^{1/2}$ es): $O_{-1}^{1/2}$ ves): $O_{-1}^{1/2}$ (Wei otos, previous inspections)	Secon Image: Construction of the second s	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) truration Visible on Aerial Imagery (C9) eomorphic Position (D2) allow Aquitard (D3) AC-Neutral Test (D5) tised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) Present? Yes No
DLOGY d Hydrology Indicators: Indicators (minimum of one r frace Water (A1) th Water Table (A2) furation (A3) ter Marks (B1) fiment Deposits (B2) th Deposits (B3) al Mat or Crust (B4) th Deposits (B5) frace Soil Cracks (B6) indation Visible on Aerial Imag arsely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes able Present? Yes as capillary fringe) e Recorded Data (stream gau s: The Type N Type N	equired; check all that apply)	ed Leaves (B9) (except 2, 4A, and 4B) B11) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{(1)}$ es): $O_{-1}^{(2)}$ es): $O_{-1}^{(2)}$ wei otos, previous inspections) SGS-term unit	$\frac{Secon}{\sqrt{2}} vv$	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) host-Heave Hummocks (D7) Present? Yes No Present? Yes No
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) diment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) mdation Visible on Aerial Imag arsely Vegetated Concave Sur- bservations: Water Present? Yes able Present? Yes able Present? Yes able Present? Yes acapillary fringe) e Recorded Data (stream gau S: The Type N D an undergroup by Fon Kall With Argent	equired: check all that apply)	ed Leaves (B9) (except 2, 4A, and 4B) B11) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{(1)}$ es): $O_{-1}^{(2)}$ es): $O_{-1}^{(2)}$ wei otos, previous inspections) SGS-term unit	$\frac{Secon}{\sqrt{2}} vv$	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) host-Heave Hummocks (D7) Present? Yes No Present? Yes No
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) fiment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) indation Visible on Aerial Imag ursely Vegetated Concave Sur bservations: Water Present? Yes able Present? Yes able Present? Yes a capillary fringe) a Recorded Data (stream gau s: The Type N A Maderyow ek was 51°F on Kan Water Aray Water Orego	equired: check all that apply)	ed Leaves (B9) (except 2, 4A, and 4B) B11) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{(1)}$ es): $O_{-1}^{(2)}$ es): $O_{-1}^{(2)}$ wei otos, previous inspections) SGS-term unit	$\frac{Secon}{\sqrt{2}}$	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7) Present? Yes <u>Ves</u> No <u>Veck</u> diverted
DLOGY d Hydrology Indicators: Indicators (minimum of one r face Water (A1) h Water Table (A2) uration (A3) ter Marks (B1) fiment Deposits (B2) t Deposits (B3) al Mat or Crust (B4) Deposits (B5) face Soil Cracks (B6) ndation Visible on Aerial Imag msely Vegetated Concave Sup barsely Vegetated Con	equired: check all that apply)	ed Leaves (B9) (except 2, 4A, and 4B) B11) rtebrates (B13) ulfide Odor (C1) izospheres along Living Ro Reduced Iron (C4) Reduction in Tilled Soils (C tressed Plants (D1) (LRR in in Remarks) es): $O_{-1}^{(1)}$ es): $O_{-1}^{(2)}$ es): $O_{-1}^{(2)}$ wei otos, previous inspections) SGS-term unit	Secon V Secon V Dr Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) hised Ant Mounds (D6) (LRR A) host-Heave Hummocks (D7) Present? Yes No Present? Yes No

• 4 • 9

WETLAND DETERMINATION DATA FORM - Arid West Region

Solo Present? Yes No / Is rology Present / Is	stief (concave, convex, none):
slope, terrace, etc.): terrace baset Local re RP: Mril West E bat 46703 Name: Moan Northstar Rak Outurep O nydrologic conditions on the site typical for this time of year? Yes n	stief (concave, convex, none):
RP: Hrid West E bat: 416773 Name: Mcban Northstar-Rak Onturop Ornydrologic conditions on the site typical for this time of year? Yes n	S N Long: 57.8 / 6/02 Datum: 15% NWI classification: N/A No (If no, explain in Remarks.) d? Are "Normal Circumstances" present? Yes No c? (If needed, explain any answers in Remarks.) ling point locations, transects, important features, etc. s the Sampled Area within a Wetland? Yes M. Ash Pl. bordury the Rork . ant Indicator Dominance Test worksheet: Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
Name: <u>Mban Northstar-Kak Outurap 0</u> nydrologic conditions on the site typical for this time of year? Yes n	15%
hydrologic conditions on the site typical for this time of year? Yes h	No (If no, explain in Remarks.) d? Are "Normal Circumstances" present? Yes No c? (If needed, explain any answers in Remarks.) ling point locations, transects, important features, etc. s the Sampled Area mithin a Wetland? Yes No art Indicator Status NASA P[borderwy the Bark - ant Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
	d? Are "Normal Circumstances" present? Yes No c? (If needed, explain any answers in Remarks.) ling point locations, transects, important features, etc. e the Sampled Area within a Wetland? Yes No e the Sampled Area within a Wetland? Yes No e the Sampled Area within a Wetland? Yes No e the Sampled Area within a Wetland? Yes No e the Sampled Area within a Wetland? Yes No e the Sampled Area within a Wetland? Yes No e the Sampled Area No
$\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}$?? (If needed, explain any answers in Remarks.) ling point locations, transects, important features, etc. s the Sampled Area nithin a Wetland? Yes No ant Indicator No s? Status
OF FINDINGS – Attach site map showing samp Vegetation Present? Yes No Is resent? Yes No Is rology Present? Yes No Is DEV) Attach site map showing samp Is DEV) Yes No Is DEV) Attach site map showing samp Is DEV) Yes No Is DEV) Attach base development B Lib ON - Use scientific names of plants. Absolute Domina (Plot size: 30×30^{-1}) % Cover Specie Main Ash S N D Stratum (Plot size: 30×30^{-1}) S Total	Ing point locations, transects, important features, etc. athe Sampled Area within a Wetland? Yes No and M. Ash Pl borcherry the Bark - and Indicator Dominance Test worksheet: Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
Vegetation Present? Yes No Is resent? Yes No Is rology Present? Yes No Is DEV) Stratum Absolute Domina Stratum (Plot size: 30 × 30 /) Stratum Stratum Stratum b Stratum (Plot size: 30 × 30 /) Stratum Stratum Stratum	ant Indicator S? Status
resent? Yes No // w rology Present? Yes No // w DEV) d townhouse development & Lib ON - Use scientific names of plants. (Plot size: 30×30) <u>% Cover Specie</u> <u>% Cover Spe</u>	within a Wetland? Yes No ant Indicator No Ash Pl borchen withe Bark . ant Indicator Dominance Test worksheet: Number of Dominant Species N /A That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
resent? Yes No // w rology Present? Yes No // w DEV) d townhouse development & Lib ON - Use scientific names of plants. (Plot size: 30×30) <u>% Cover Specie</u> <u>% Cover Spe</u>	within a Wetland? Yes No ant Indicator No Ash Pl borchen withe Bark . ant Indicator Dominance Test worksheet: Number of Dominant Species N /A That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B)
rology Present? Yes No DEV) dt for which have a development of Lib ON - Use scientific names of plants. (Plot size: 30×30) Absolute % Cover Specie % Cover	ant Indicator <u>s? Status</u> <u>MPL</u> <u>Number of Dominant Species</u> That Are OBL, FACW, or FAC: (A) <u>Total Number of Dominant</u> <u>Species Across All Strata</u> : (B)
Altownhouse development & Lib ON - Use scientific names of plants. (Plot size: 30 × 30) Absolute Domina % Cover Specie %	ant Indicator Dominance Test worksheet: N s? Status Number of Dominant Species
ON - Use scientific names of plants. (Plot size: 30×30) $2 \times 5 \times 20 \times 30$ $2 \times 5 \times 20 \times 30$ 5×30 $5 \times 5 \times 30$ 5 = Total	ant Indicator Dominance Test worksheet: N s? Status Number of Dominant Species
$\frac{(\text{Plot size:} 30 \times 30)}{\text{(Plot size:} 30 \times 30)} = \frac{\text{Absolute}}{\% \text{ Cover}}{\frac{\% \text{ Cover}}{\% \text{ Cover}}} = \frac{\text{Specie}}{N}$ $\frac{1}{5} \times \frac{5}{N} = \frac{5}{N}$ $\frac{5}{5} = \text{Total}$ $\frac{5}{5} = \text{Total}$	s? Status Number of Dominant Species N/h
b Stratum (Plot size: 30 × 30) b Stratum (Plot size: 30 × 30)	s? Status Number of Dominant Species N/h
$\frac{5}{N} = Total$	
$\frac{b \text{ Stratum}}{b \text{ Stratum}} (\text{Plot size:} \frac{30^{1} \times 30^{1}}{30^{1}}) = 5 = \text{Total}$	Total Number of Dominant Species Across All Strata: (B)
b Stratum (Plot size: $30^{\prime} \times 30^{\prime}$)	
	Percent of Dominant Species
	Cover That Are OBL, FACW, or FAC: (A/B)
	FAC species x 3 = Cover FACU species x 4 =
(Plot size: $\overline{S} = \overline{S}$	UPL species x 5 =
o Fescure	Column Totals: (A) (B)
Bachelor Button	
rast	Prevalence Index = B/A =
	Hydrophytic Vegetation Indicators: Dominance Test is >50%
	Membelogical Adaptations ¹ (Provide supporting
	data in Remarks or on a separate sheet)
= Total	Problematic Hydrophytic Vegetation ¹ (Explain)
Stratum (Plot size: 36×30)	
	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	Cover Hydrophytic
morring Scabland = Total ad in Herb Stratum % Cover of Biotic Crust	Vegetation
see buy-1 "Wetland Determinition	DATA FORM-R2 AS is sample
s of Engineers	Arid West – Version 2.0
-	V D. Ella

۰.

ti.

WETLAND DETERMINATION DATA FORM - Arid West Region

~

ing Date: <u>S 15+6 03 2625</u> ing Point: <u>WU-2 Wet</u>
Slope (%): <u>D^ 19</u> Datum: <u>NADB37</u>))N/ <u>Depressional</u> <u>SPEMIC-</u> <u>Yes No /</u> <u>Permarks</u>) ortant features, etc. <u>o</u> <u>b</u> ths of <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>come</u> <u>com</u>
Slope (%): <u>0</u> - <u>19</u> . Datum: <u>NADB37</u> <u>Depressional</u> <u>PEMIC-</u> <u>Yes</u> <u>No</u> marks.) ortant features, etc. <u>0</u> <u>2</u> <u>3</u> (A)
Datum: <u>NADB37</u>]]N/ <u>Depressional</u> (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
<u>Depressional</u> (2) <u>SPEMIC</u> <u>Yes</u> <u>No</u> <u>emarks.</u>) ortant features, etc. <u>o</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u>
S PEMIC No emarks.) ortant features, etc. o both s of patients of patien
Yes <u>No</u> emarks.) prtant features, etc. o <u>b</u> <u>b</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u>
emarks.) prtant features, etc. pths of kome . (A)
ortant features, etc.
e
e
<u> </u>
(A)
(A)
(A)
(A)
(B)
(B)
100 07 (A/B)
$\frac{\text{Multiply by:}}{x 1 = 2}$
$x_2 = \frac{10}{10}$
$x_3 = 6$
×4= 20
x5=
A) <u>43</u> (B)
= 219
ators:
1
¹ (Provide supporting a separate sheet)
egetation ¹ (Explain)
etiand hydrology must problematic.
problemato.
No
25 in South
Arid West - Version 2.0
525 + 6/14/2025

0-SETOSlopes

NU-Z Wetz ••

ofile Description: (Describe to the dept				
hes) Color (moist) %	Redox Features Color (moist) %	rpe ¹ Loc ²	Texture	Remarks
thes) Color (moist) %				Prin tour KPXM
		<u></u>	as mos	Poison Tury CFPOM
2("	104K32 -	CPL	22.2K	Very Dark AShy SHTFF
				/
e: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or	Coated Sand G	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.
ric Soil Indicators: (Applicable to all I	RRs, unless otherwise noted.)		moicate	ors for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)			n Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)			Parent Material (TF2)
	Loamy Mucky Mineral (F1) (e	xcept MLRA 1)		y Shallow Dark Surface (TF12)
Black Histic (A3)	Loamy Gleyed Matrix (F2)		Oth	er (Explain in Remarks)
Hydrogen Sulfide (A4)	Depleted Matrix (F3)			
Depleted Below Dark Surface (A11)			3Indicate	ors of hydrophytic vegetation and
Thick Dark Surface (A12)	Redox Dark Surface (F6)			ind hydrology must be present,
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)			as disturbed or problematic.
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		Unies	a ristinger of highestigner
trictive Layer (if present):			1	
Type: Basalt Bedroch	<u></u>			the second se
Depth (inches): 36		-	Hydric Soil	Present? Yes No
narks:	المتعمون 		1	
ROLOGY		····		
tland Hydrology Indicators:				
lland Hydrology Indicators: nary Indicators (minimum of one required	check all that apply)			ndary Indicators (2 or more required)
DROLOGY tland Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) 5. Good T	check all that apply) Water-Stained Leaves (f			Vater-Stained Leaves (89) (MLRA 1, 2
tland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) 5. Canol 7	Water-Stained Leaves (F	39) (except	v	Vater-Stained Leaves (89) (MLRA 1, 2 4A, and 4B)
tland Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) 5. (Gr.c) T High Water Table (A2) N Brus	Water-Stained Leaves (F MLRA 1, 2, 4A, and	39) (except	V	Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) prainage Patterns (B10)
tland Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) 5. Richt High Water Table (A2) N Rnul Saturation (A3) 5(15) 2025	Water-Stained Leaves (F MLRA 1, 2, 4A, and Salt Crust (B11)	39) (except 48)	V	Vater-Stained Leaves (89) (MLRA 1, 2 4A, and 4B)
land Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) 5. (Gind) T High Water Table (A2) N And	Water-Stained Leaves (E MLRA 1, 2, 4A, and Satt Crust (B11) Aquatic Invertebrates (B	39) (except 4B) /	v	Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2)
tland Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) 5. Richt High Water Table (A2) N Rnul Saturation (A3) 5(15) 2025	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (39) (except 48) 13) C1)	V C S	Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) Insturation Visible on Aerial Imagery (CS
tland Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) S. Richt High Water Table (A2) N Roch Saturation (A3) S(15)2025 Water Marks (β1) Sediment Deposits (B2)	Water-Stained Leaves (f MLRA 1, 2, 4A, and Satt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a	39) (except 48) 13) C1) Jong Living Roo	V C C S S	Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) iaturation Visible on Aerial Imagery (CS Geomorphic Position (D2)
Iand Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) S. Groft High Water Table (A2) S. Brodt Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Satt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a	39) (except 48) 13) C1) Jong Living Roo	V C S S S	Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) iaturation Visible on Aerial Imagery (CS Geomorphic Position (D2) ihallow Aquitard (D3)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. Good T High Water Table (A2) S. Bood T Saturation (A3) S. S. 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (f MLRA 1, 2, 4A, and Satt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Inc	39) (except 4B) 13) C1) Jong Living Roo In (C4)	V C S S S S	Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) iaturation Visible on Aerial Imagery (CS Geomorphic Position (D2)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. Giod T High Water Table (A2) N And Saturation (A3) S(15)2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (f MLRA 1, 2, 4A, and Satt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in	39) (except 48) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS Geomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5)
land Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Good T High Water Table (A2) S Good T Saturation (A3) S Good T Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Eccent Iron Reduction in Stunted or Stressed Plan	39) (except 48) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6 ots (D1) (LRR A)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS seomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5) caised Ant Mounds (D6) (LRR A)
land Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Good T High Water Table (A2) S Good T Saturation (A3) S (15) 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Eccent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark	39) (except 48) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6 ots (D1) (LRR A)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS Geomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. Good T High Water Table (A2) S Good T Saturation (A3) S (15) 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Eccent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark	39) (except 48) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6 ots (D1) (LRR A)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS seomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5) caised Ant Mounds (D6) (LRR A)
land Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Given T High Water Table (A2) S. Bond Saturation (A3) S. IS 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (f MLRA 1, 2, 4A, and 4 Satt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (f Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark)	39) (except 48) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6 ots (D1) (LRR A)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS seomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5) caised Ant Mounds (D6) (LRR A)
tland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Gird T. High Water Table (A2) S. Brud Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark) Depth (inches):	39) (except 48) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6 ots (D1) (LRR A)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS seomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5) caised Ant Mounds (D6) (LRR A)
tland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Gird T. High Water Table (A2) S. Brud Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and 4 Satt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (f Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark)	39) (except 4B) 13) C1) along Living Roo on (C4) Tilled Soils (C6 hts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS beomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
tand Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. G. C. T. High Water Table (A2) S. G. C. T. Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark) Depth (inches):	39) (except 4B) 13) C1) along Living Roo on (C4) Tilled Soils (C6 hts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) aturation Visible on Aerial Imagery (CS seomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5) caised Ant Mounds (D6) (LRR A)
tand Hydrology Indicators: <u>mary Indicators (minimum of one required</u> Surface Water (A1) S. Giod T. High Water Table (A2) S. Bond Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark B) Depth (inches): <u>0 - 1</u> Depth (inches): <u>0 - 1</u>	39) (except 4B) 13) C1) along Living Roo on (C4) 11illed Soils (C6 ats (D1) (LRR A) (cs) 1 1 1 1 1 1 1 1 1 1 1 1 1		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. G. C. T. High Water Table (A2) S. B. Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark B) Depth (inches): <u>0 - 1</u> Depth (inches): <u>0 - 1</u>	39) (except 4B) 13) C1) along Living Roo on (C4) 11illed Soils (C6 ats (D1) (LRR A) (cs) 1 1 1 1 1 1 1 1 1 1 1 1 1		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS beomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. G. C. T. High Water Table (A2) S. B. Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark B) Depth (inches): <u>0 - 1</u> Depth (inches): <u>0 - 1</u>	39) (except 4B) 13) C1) along Living Roo on (C4) 11illed Soils (C6 ats (D1) (LRR A) (cs) 1 1 1 1 1 1 1 1 1 1 1 1 1		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Land Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Good T. High Water Table (A2) S. Bond Saturation (A3) S. IS 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B d Observations: ace Water Present? Yes	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark b) Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1	39) (except 4B) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6) onts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
tland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. G.G.T. High Water Table (A2) S. B.G.T. Saturation (A3) S. G.G.T. Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B d Observations: face Water Present? Yes	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark b) Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1	39) (except 4B) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6) onts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
tland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) S. Gird T. High Water Table (A2) S. Brad Saturation (A3) S.	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark b) Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1	39) (except 4B) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6) onts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. Good T. High Water Table (A2) S. Bond Saturation (A3) S. IS 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B d Observations: ace Water Present? Yes	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark b) Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1	39) (except 4B) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6) onts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
land Hydrology Indicators: nary Indicators (minimum of one required Surface Water (A1) S. Good T. High Water Table (A2) S. Bond Saturation (A3) S. IS 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B d Observations: ace Water Present? Yes	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark b) Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1	39) (except 4B) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6) onts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
land Hydrology Indicators: ary Indicators (minimum of one required Surface Water (A1) S. Good T. High Water Table (A2) N. Bond Saturation (A3) S. IS 2025 Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B d Observations: ace Water Present? Yes	Water-Stained Leaves (f MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction in Stunted or Stressed Plan Other (Explain in Remark b) Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1 Depth (inches): 0-1	39) (except 4B) 13) C1) along Living Roo on (C4) 1 Tilled Soils (C6) onts (D1) (LRR A) (cs)		Vater-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) brainage Patterns (B10) bry-Season Water Table (C2) faturation Visible on Aerial Imagery (CS feomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

14.2

SG-C/23 KCOS USD 6/10/2025

Riparian Constancy Tables. - WK-Z Depressional Freshwater Bright D.Flym(on behalf of Conserved Companion Willow Series Drumbeller Spring's Park City of Spokan MA. Table 15-Constancy and mean cover of important plant species in the SALIX plant associations-Part 1 (continued)

		SACO2/ CASCB-CASP 5 plots		MESIC	CO2/ FORB lots	CA	FA/ NI2 Iots	CASCE	FA/ B-CASP plots	CAS	FA/ CP2 plots	CA	FA/ UT plots
Species	Code	CON	cov	CON	COV	CON	COV	CON	COV	CON	COV	CON	cov
Sitka sedge	CAAQS	_	_	_	_	_	_		_	_		60	31
Buxbaum's sedge	CABU2	_		_	_		_	_	_	_	_	10	5
Cusick's sedge	CACU2	_	_	_	-			_	_		_	_	_
lesser panicled sedge	CAD12	-		_	_	_	_	-	_	_	_	_	_
woolly sedge	CALA3	-		_		_		_		_		_	_
slender sedge	CALA4	_		_	_	_	-	_	_		_	10	2
lenticular sedge	CALE5	_		_	_	_	-	10	13			10	80
mud sedge	CALI	-		_	_	-		_	—	_		10	3
black alpine sedge	CANI2	40	9	60	2	100	25	70	13	7	5	-	_
poor sedge	CAPA9	_	-	_	-	_	-	-	_		_	10	3
russet sedge	CASA2	_			_	-	_	_	_	_	-	_	
Holm's sedge	CASCB	60	8	-		100	З	80	27	—	-	-	
saw-leaved sedge	CASCP2		-	20	2	_	-		-	100	30	_	_
showy sedge	CASP	60	13	60	1	—	—	30	20	_	_	-	-
bladder sedge	CAUT		-	-	_	_	—		_	57	8	90	18
inflated sedge	CAVE		-	_	-	-	_		—	_		_	_
timber oatgrass	DAIN	-	_	-	-	-		10	Tr	29	1	-	—
few-flowered spike-rush	ELPA2		—	_	—	_	-	-	-	_	_	—	-
many-spiked cotton-grass	ERP02	_	_	_	_	50	Tr	10	1	-	-	-	_
green-keeled cotton-grass	ERVI	—	—		-	—	_	10	2	_	_	10	1
tall mannagrass	GLEL		-	-	-	—	—	_	-	-		10	1
reed mannagrass	GLGR	—	-		_	_	_		_	-	_	-	_
Drummond's rush	JUDR	_		60	1	100	1	30	3	_	—	-	
small-fruited bulrush	SCMI	_	-	_	-	-	—	-		—	—	10	15
Ferns and fern allies:											_		
common horsetail	EQAR		_	40	10	—	_	—		14	Tr	30	1

 $^{a}_{L}$ CON = percentage of plots in which the species occurred.

 b COV = average canopy cover in plots in which the species occurred.

^cTr = trace cover, less than 1 percent canopy cover.

		D	IFA/ AIN plots	ELPA2	FA/ -ERPO2 lots	ALLUVI	LIX/ AL BAR plots	EQ	_IX/ UIS lots	SAL GL 4 pl	EL	MESIC	_IX/ FORB plots
Species	Code	CONa	COV	CON	COV	CON	cov	CON	cov	CON	CON	CON	cov
Tree overstory: Engelmann spruce	PIEN	_	_	_	-	6	Tr ^c	_	_	25	5	25	1
Tree understory: Engelmann spruce	PIEN			50	2	31	Tr			25	1	38	3
	FILIN	_	_	50	2	31	11	_		25	1	30	3
Shrubs:													
mountain alder	ALIN	_		17	5	19	10	100	2	25	3	13	33
Sitka alder	ALSI	-	-	-	-	38	7	-		25	15	56	16
bog birch	BEGLG	50	7	33	18	—	_	_	_	_	—	6	20
/red-osier dogwood	COST	-	-	_	-	38	3		-	_	-	38	13
prickly currant	RILA			-	-	13	4	_	_	25	1	13	5
western thimbleberry	RUPA	—	_	_		13	1	_		-	_	31	8
Bebb's willow	SABE		_	-	_	-	-	_		25	Tr	6	15
Booth's willow	SAB02	-	_		—	_	-		-	25	40	_	_
hoary willow	SACA9	_			—	_	-	_	-		_	6	2
Cascade willow	SACA6		-	-	-	-	-	-	_	_	_	_	_
undergreen willow	SAC02	_	_	-		6	7		-	-	_	13	13
Drummond's willow	SADR	-			—	—	—	33	3	25	70	6	7
coyote willow	SAEX	-	_	—	-	6	50	_	-	_	-	6	10
Farr's willow	SAFA	50	25	50	28	-	-	-		_	_	6	Tr
Geyer's willow	SAGEG	—	-	_	_	-	-	-	_	-	-		_
Geyer's willow	SAGEM	-	_	-	_		-	-	-	-	_		_
glaucous willow	SAGL	—	—	—		—	-	—				_	_
whiplash willow	SALAC	-	_	-	—	13	3	100	4	25	25	6	10
Pacific willow	SALAL	-	-	_	—	6	2		_	_	_	6	Tr
dusky willow	SAME2	—	-	-	-	56	29	33	65	-	-	6	65
Piper's willow	SAPI	_	_	_		-		_	_	_		_	_
tea-leaved willow	SAPLM2	50	30	33	23	_		-				_	_
Mackenzie's willow	SARIM		_	_	_	6	3	100	42	-	_	19	12
Scouler's willow	SASC	-		_	_	13	4	_	_	_	_	6	99

ELDS USA 6/17/2025 157

Repartion Construct Tables cont. ...

SHRUB SERIES

		D	AFA/ AIN plots	ELPA2	FA/ -ERPO2 lots	ALLUV	-IX/ AL BAR plots	SAL EQ 3 pl	UIS	SAL GL 4 pl	Εų	SAL MESIC 16 p	
Species Sitka willow	Code	CON	COV	CON	COV	CON	COV	CON	COV	CON	cov	CON	COV
Sitka willow	SASI2				_	94	38	33	3	75	47	81	71
willow species (Pacific)	SALIX	_	-	-		_	_	_	_	_	_	-	_
Douglas spiraea	SPDO	_	_	17	2			_	_	25	1	6	Tr
	0.00			±,	2					20	-	0	
Low shrubs and subshrubs:													
Merten's moss-heather	CAME	-	-	—	-	_	_	_	_		—	-	_
myrtle pachistima	PAMY	_	-		_	13	Tr	_	_		_	_	_
red mountain-heath	PHEM	_	-	—	—	—	-	_	—		—	-	—
cream mountain-heath	PHGL		_	_	_	-	_	_	_			_	_
dwarf huckleberry	VACA	100	23	17	25	-			-	_	_	_	—
Cascade huckleberry	VADE	_	_	_	-	_	_	—	-	_	-	-	_
grouse huckleberry	VASC	_	-	_	_	6	5	_	_	-	_	-	-
Perennial forbs:													
sharptooth angelica	ANAR	_	_	17	Tr	31	1	_	-	25	1	81	2
alpine leafybract aster	ASFO	50	5	_	_	6	Tr	_	—	25	1	19	5
fewflower aster	ASMO	50	5	_	_	13	5	_	_	25	Tr	31	9
twinflower marshmarigold	CABI	_	_	_	_	-	_	_	_	_	<u> </u>	_	<u> </u>
elkslip	CALE2	50	3	_	_		_	_	_	_	_	_	_
peregrine fleabane	ERPE	_	_	_	_		_	67	Tr	50	25	_	_
northern bluebells	MEPAB		_	_	_	13	Tr	_	-	50	3	38	10
broadleaved montia	MOCO		_			13	1	_	_	25	15	19	5
fanleaf cinquefoil	POFL2		_	_	_	13	Tr	_	_	- 25		19	Tr
marsh cinquefoil	POPA3	_	_	67	10	-	_		_	_	_	-	_
dotted saxifrage	SAPU	_	_		-	6	Tr	_	_	50	3	31	3
cleftleaf groundsel	SECY	50	2	_	_	0	_	_	_	50	_		_
arrowleaf groundsel	SETR	50		_		19	1	_		50	4	56	3
globeflower	TRLA4	50	3		_	19	Tr	_	_	50	. 4	56	5
Sitka valerian	VASI	50			_	6	1	_	_	25	15	25	15
		_	_	_	_	0		_					
American false hellebore	VEVI	_	_		_	_	_	_	-	50	2	13	7
thyme-leaved speedwell	VESE	_	_	-	-	6	Tr	-	-	-	—	6	Tr
Wormskjold's speedwell	VEWO	50	Tr	-	-	_	_	-	_	_	_	6	1
pioneer violet	VIGL	-	-	—	_	19	1	-	-	50	14	69	6
Macloskey's violet	VIMA	—	-	33	2	—	-	—	—	-	—	—	_
marsh violet	VIPA2	_	-	-	_	-	-	-	-	-	-	-	
Grasses or grasslike:													
bluejoint reedgrass	CACA	100	2	33	10	19	3	_	_	25	15	25	1
Columbia sedge	CAAP3	100	-	-	10		_	_	_	20		20	
water sedge	CAAQA	_	_	17	з		_	_	_			_	_
Sitka sedge	CAAQS	_		17	5		_				_		_
Buxbaum's sedge	CABU2		_		_		_		_		_		
Cusick's sedge	CACU2	_	_	_	_		_	_	_		_	-	_
lesser panicled sedge	CACU2 CADI2			33	20		_	_					_
	CADI2 CALA3	-	_	33	20	_	_	_		—	-	_	
woolly sedge		-	_	_	_	-		-	Tr	_	_	_	_
slender sedge	CALA4	-	_	—	—	20			— T-	_		-	
lenticular sedge	CALE5	_	_	_	_	38	Tr	-	Tr	<u> </u>	-	19	Tr
mud sedge	CALI		-	50	11	-	—	-	_	_	_	·	-
black alpine sedge	CANI2	50	5	-		—	-	-	-	-	-	-	_
poor sedge	CAPA9	_	_	17	7	—	-	-	—	-	—	_	—
russet sedge	CASA2	_	_	—	—		-	-	—		—		
Holm's sedge	CASCB	50	3	-	—	—	_ `	-			_	-	-
saw-leaved sedge	CASCP2	50	1	17	5	6	Tr	-	—	25	1	6	3
showy sedge	CASP	-	_	-	_	6	Tr	-		-	—	13	1
bladder sedge	CAUT	_	-	67	13	-	-	_	-	50	4	6	2
inflated sedge	CAVE		_	17	1	—	_		_	_	_	—	-
timber oatgrass	DAIN	100	24	-	_	-	-	-	-	-	-	—	—
few-flowered spike-rush	ELPA2	-	—	50	16	_	-	_	—	_	_	—	—
many-spiked cotton-grass	ERP02	50	Tr	33	33	-	-	_	-	-	-	-	_
green-keeled cotton-grass	ERVI	-	_	17	7	_	—	_	_	_	_ `	—	—
tall mannagrass	GLEL	_	_	_	_	6	Tr	-	_	75	10	19	1
reed mannagrass	GLGR	_	_	_	_	_	_	_	_	25	65	_	_
Drummond's rush	JUDR				_	6	Tr			_	_	6	1
small-fruited bulrush	SCMI	_	_	_	_	13	Tr	100	1	25	Tr	13	3
	00.00	_	01 2352		0.000	10		100	-	20		10	5
erns and fern allies:													

VSGRAS SOS USP

^a CON = percentage of plots in which the species occurred. ^b COV = average canopy cover in plots in which the species occurred. ^cTr = trace cover, less than 1 percent canopy cover.

WETLAND DETERMINATION DATA FORM - Arid West Region

Vala								
Project/Site: 15 WULL Drum heller Spring Creek city/County: Spokane	Spokane Sampling Date: 5 15-6 03 2025							
Applicant/Owner: D. Flynnonbehalfd Conderned Companions	State: Sampling Point: UPL- [N4-3]							
Investigator(s): <u>S.Collinssz-B.Kinard</u> Section, Township, Range: <u>Sec1 T25 N K42E</u> 43								
Landform (hillslope, terrace, etc.): hillslope Terrace, Local relief (concave, conve	ex, none): <u>CONCAVE</u> Slope (%): <u>157</u> 8							
Subregion (LRR): And West Erat 467273 Non	Datum:UTMNAD837/IN							
Soil Map Unit Name: Mrhan No. rthstar - Rock Outerp 0-1570 NWI classification: N/A m(2m)								
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No/ (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No								
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed	l, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locat	tions, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Versent? No Versent? No Versent? No Versent?	Yes No							
VEGETATION Use scientific names of plants.	-							
Tree Stratum (Plot size: D) % Cover Species? Status 1. Ponderosa pine Pinus ponderosa 70 That 2.	ninance Test worksheet: nber of Dominant Species t Are OBL, FACW, or FAC:							
Sapling/Shrub Stratum (Plot size: 30×30′) = Total Cover That 1. Common Showberney 10 Prev 2 10	cent of Dominant Species t Are OBL, FACW, or FAC: (A/B) valence Index worksheet: Total % Cover of: Multiply by: M species x 1 =							

4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 33×30')	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
	10	Prevalence Index worksheet:
2	an annaide fille ann an an ann an an an an an an an an a	Total % Cover of: Multiply by: N/C
3	· · · · · · · · · · · · · · · · · · ·	OBL species x1=
4		FACW species x2 =
5		FAC species x 3 =
	= Total Cover	FACU species x4 =
Herb Stratum (Plot size: 30 x 30)	1.6	UPL speciesx5=
1. Idahafescure	16	- Column Totals: (A) (B)
2	-	
3		Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence index is ≤3.0 ¹
7		Morphological Adaptations ¹ (Provide supporting
8.		data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size: 3 7 × 36)	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
1		¹ Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
	100 = Total Cover	Hydrophytic Vegetation 7
% Bare Ground in Herb Stratum 10 % Cover	of Biotic Crust	Present? Yes No
Remarks:	n an	

US Army Corps of Engineers

0

Arid West - Version 2.0

OIL 713	3D-urba	nlane	Worth	12442-1		N 1 1 1 1 1	Detre		ampling Po	
rofile Descrit	ption: (Describe t	o the dept	h needed to d	iocument the	indicator of	r confirm	the absence	ofindicate	ors.)	
Depth	Matrix			Redox Featur	es					
inches)	Color (moist)	%	Color (mois	st) %	Type'	Loc ²	Texture	(Plan 2	Remark	(5
1-1				5				CFP(MC	
7-6-0								Timbre	1 11 and 1	COBP
2								Ext	VI VIGINI	000017
								ash	y loan	1
1-50								R	1+LO	adorek
1- 5 "								DAD	NIL 12.	CULLUS
					-	-				and the second secon
								<u></u>		
vpe: C=Con	centration, D=Depl	etion, RM=	Reduced Mat	rix, CS=Cover	ed or Coated	I Sand Gra	ins. Lo	cation: PL=	Pore Lining	I. M=Matrix.
whic Soil In	dicators: (Applica	ble to all L	RRs, unless	otherwise no	ted.)		Indicato	ors for Pro	blematic Hy	dric Soils ³ :
-			Sandy Re				2 cr	n Muck (A1	0)	
_ Histosol (A	•	-		Matrix (S6)			Rec	Parent Ma	terial (TF2)	
_ Histic Epip		-		ucky Mineral (I	E4) (overat	MI PA 4)	Ver	v Shallow D)ark Surface	(TF12)
_ Black Histi		-		-		NUMBER OF	Oth	er (Explain	in Remarks)
_ Hydrogen	Sulfide (A4)			eyed Matrix (F	2)					
	Below Dark Surface			Matrix (F3)	-		³ Indicate	rs of hydro	phytic vege	tation and
	(Surface (A12)	<u>i</u>		rk Surface (F6	-				gy must be	
_ Sandy Mud	cky Mineral (S1)	-		Dark Surface					or problem	
	yed Matrix (S4)		Redox De	pressions (F8)		Gines	is distanced		
estrictive Lay	yer (if present):	·								
Type:								· ·		
Depth (inche	es).		· .		-		Hydric Soil	Present?	Yes	No
emarks:						1				
		irea a	crosst	hestre	et D	Ashf	lace.			
DROLOG	Y	N AQ	crosst	heltre	et O	Ashf	lace.		-	
DROLOG	Y blogy Indicators:	NA			et D	Ashf		ndary Indica	ntors (2 or m	nore required)
DROLOG Ietland Hydro	Y plogy Indicators: ors (minimum of or	NA	check all that	apply)		· · ·	Secor			nore required) 39) (MLRA 1,
(DROLOG) fetland Hydro rimary Indicate _ Surface Wa	Y plogy Indicators: ors (minimum of or ater (A1)	NA	check all that	apply) r-Stained Lear	ves (89) (exc	· · ·	Secor	later-Staine	ed Leaves (l	<u>nore required)</u> 39) (MLRA 1,
(DROLOG) fetland Hydro rimary Indicate _ Surface Wa	Y plogy Indicators: ors (minimum of or	NA	<u>check all that</u> Wate Mi	appiv) r-Stained Lean LRA 1, 2, 4A,	ves (89) (exc	· · ·	<u>Secor</u> V	/ater-Staine 4A, and 4	ed Leaves (I IB)	39) (MLRA 1,
DROLOG Tetland Hydro rimary Indicate _ Surface Wa	Y ology Indicators: ors (minimum of or ater (A1) r Table (A2)	NA	<u>check all that</u> Wate Salt (r-Stained Lean LRA 1, 2, 4A, Crust (B11)	ves (89) (exa and 48)	· · ·	<u>Secor</u> W D	/ater-Staine 4A, and 4 rainage Pa	ed Leaves (I IB) Iterns (B10)	39) (MLRA 1,
DROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation	Y ology Indicators: ors (minimum of or ater (A1) r Table (A2) (A3)	NA	<u>check all that</u> Wate Salt (appiv) r-Stained Lean LRA 1, 2, 4A,	ves (89) (exa and 48)	· · ·	<u>Secor</u> W D D	/ater-Staine 4A, and 4 rainage Pai ry-Season	ed Leaves (I IB) Iterns (B10) Water Table	89) (MLRA 1, e (C2)
DROLOG Tetland Hydro <u>imary Indicate</u> Surface Wa High Water Saturation Water Mark	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1)	NA	<u>check all that</u> Wate Satt C Aqua	r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate	ves (89) (exc and 48) es (813)	· · ·	<u>Secor</u> W D D	/ater-Staine 4A, and 4 rainage Pai ry-Season	ed Leaves (I IB) Iterns (B10) Water Table	39) (MLRA 1,
DROLOG Tetland Hydro <u>fimary Indicate</u> Surface Wa High Water Saturation Water Mark Sediment D	Y ology Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) (A3) ks (B1) Deposits (B2)	NA	<u>check all that</u> Wate Satt C Aqua	r-Stained Lean Ir-Stained Lean LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C	ves (89) (exc and 48) es (813))dor (C1)	cept	<u>Secor</u> W D D S	/ater-Staine 4A, and 4 rainage Pai ry-Season V aturation Vi	ed Leaves (I IB) Itterns (B10) Water Table sible on Ae	39) (MLRA 1, • (C2) rial Imagery (C
DROLOG Tetland Hydro <u>rimary Indicate</u> Surface Wa High Water Saturation Water Marf Sediment D Drift Depos	Y ology Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	NA	<u>check all that</u> <u> </u>	apply) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho	ves (B9) (exc and 4B) es (B13) Ddor (C1) eres along Li	cept	<u>Secor</u> W D D D S s (C3) G	fater-Staine 4A, and 4 rainage Pat ry-Season aturation Vi eomorphic	ed Leaves (I BB) Itterns (B10) Water Table sible on Ae Position (D2	39) (MLRA 1, • (C2) rial Imagery (C
DROLOG Tetland Hydro <u>rimary Indicate</u> Surface Wa High Water Saturation Water Marf Sediment D Drift Depos	Y ology Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) (A3) ks (B1) Deposits (B2)	NA	<u>check all that</u> <u> </u>	apply) r-Stained Lean LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ance of Reduc	ves (B9) (exc and 4B) es (B13) Odor (C1) eres along Li ed Iron (C4)	cept ving Roots	Secor M D D D S s (C3) G S	fater-Staine 4A, and 4 rainage Pal ry-Season aturation Vi eomorphic hallow Aqui	ed Leaves (1 18) Itterns (B10) Water Table sible on Ae Position (D3) Itard (D3)	39) (MLRA 1, • (C2) rial Imagery (C
DROLOG Tetland Hydro <u>imary Indicate</u> Surface Wa High Water Saturation Water Marf Sediment D Drift Depos	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	NA	check all that Wate Mi Satt C Aqua Hydra Oxidi Prese Rece	tappiv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduc nt Iron Reduct	ves (B9) (exc and 4B) es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled 1	cept ving Roots Soils (C6)	Secor W D D D S S S S S	later-Staine 4A, and 4 rainage Pai ry-Season 1 aturation Vi eomorphic hallow Aqui AC-Neutral	ed Leaves (I IB) Mater Table sible on Ae Position (D) itard (D3) Test (D5)	89) (MLRA 1, e (C2) rial Imagery (C 2)
DROLOG Vetland Hydro Surface Wa High Water Saturation Water Marl Sediment E Drift Depos Algal Mat o Iron Depos	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5)	NA	check all that Wate Satt C Aqua Hydra Oxidi Prese Rece	apply) r-Stained Lean LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ance of Reduc	ves (B9) (exc and 4B) es (B13) Odor (C1) eres along Li ed Iron (C4) tion in Tilled 1	cept ving Roots Soils (C6)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Par ry-Season V aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N	ed Leaves (I B) Water Table sible on Ae Position (D2 tard (D3) Test (D5) founds (D6)	39) (MLRA 1, 6 (C2) rial Imagery (C 2) 6 (LRR A)
DROLOG Netland Hydro Surface Wa High Water Saturation Water Marl Sediment D Drift Depos Algal Mat o Iron Deposi Surface So	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	N /A	check all that Wate Salt C Aqua Aqua Aqua Prese Rece Stunt	tappiv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduc nt Iron Reduct	ves (B9) (exc and 4B) es (B13) Ddor (C1) eres along Li ed Iron (C4) tion in Tilled d Plants (D1)	cept ving Roots Soils (C6)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Par ry-Season V aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N	ed Leaves (I IB) Mater Table sible on Ae Position (D3) itard (D3) Test (D5)	39) (MLRA 1, 6 (C2) rial Imagery (C 2) 6 (LRR A)
DROLOG Tetland Hydro Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface So Inundation	Y plogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) oil Cracks (B6) Visible on Aerial In	ne required;	<u>check all that</u> Wate Mi Satt C Aqua Hydra Oxidi Prese Ecce Stunt Other	tapply) r-Stained Leav LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ance of Reduct ant Iron Reduct ed or Stressed	ves (B9) (exc and 4B) es (B13) Ddor (C1) eres along Li ed Iron (C4) tion in Tilled d Plants (D1)	cept ving Roots Soils (C6)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Par ry-Season V aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N	ed Leaves (I B) Water Table sible on Ae Position (D2 tard (D3) Test (D5) founds (D6)	39) (MLRA 1, 6 (C2) rial Imagery (C 2) 6 (LRR A)
Petland Hydro rimarv Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely Wa	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aerial In egetated Concave	ne required;	<u>check all that</u> Wate Mi Satt C Aqua Hydra Oxidi Prese Ecce Stunt Other	tapply) r-Stained Leav LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ance of Reduct ant Iron Reduct ed or Stressed	ves (B9) (exc and 4B) es (B13) Ddor (C1) eres along Li ed Iron (C4) tion in Tilled d Plants (D1)	cept ving Roots Soils (C6)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Par ry-Season V aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N	ed Leaves (I B) Water Table sible on Ae Position (D2 tard (D3) Test (D5) founds (D6)	39) (MLRA 1, 6 (C2) rial Imagery (C 2) 6 (LRR A)
(DROLOG) fetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depose Algal Mat o Iron Depose Surface So Inundation Sparsely Ve eld Observat	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) will Cracks (B6) Visible on Aerial In egetated Concave tions:	nagery (B7) Surface (B	check all that Wate M Sait C Aqua Aqua Hydra Oxidi Prese Rece Sunt Other 	apply) r-Stained Lean LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc nt Iron Reduct ed or Stressee (Explain in Re	ves (B9) (exc and 4B) es (B13) Ddor (C1) eres along Li ed Iron (C4) tion in Tilled d Plants (D1)	cept ving Roots Soils (C6)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Par ry-Season V aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N	ed Leaves (I B) Water Table sible on Ae Position (D2 tard (D3) Test (D5) founds (D6)	39) (MLRA 1, 6 (C2) rial Imagery (C 2) 6 (LRR A)
DROLOG Vetland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depose Algal Mat o Iron Depose Surface So Inundation Sparsely Ve eld Observat Irface Water F	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) will Cracks (B6) Visible on Aerial Im egetated Concave tions: Present? Ye	nagery (B7) Surface (B4 s : No	check all that Wate M Salt C Aqua Hydro Dress C C Stutt Other C C Dept	apply) r-Stained Lean LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduct ence of Reduct of Reduct of Stressec (Explain in Reduct the (inches):	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled 3 d Plants (D1) ermarks)	cept ving Roots Soils (C6)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Par ry-Season V aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N	ed Leaves (I B) Water Table sible on Ae Position (D2 tard (D3) Test (D5) founds (D6)	39) (MLRA 1, 6 (C2) rial Imagery (C 2) 6 (LRR A)
DROLOG Tetland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depose Algal Mat o Iron Depose Surface So Inundation Sparsely Wa Edd Observat Irface Water Fater Table Pre-	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) will Cracks (B6) Visible on Aerial Im egetated Concave tions: Present? Ye	nagery (B7) Surface (B7 s No s No	check all that Wate Mi Salt C Aqua Hydro Drese Rece Sunt Other B) Dept	apply) r-Stained Leav LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduct and or Stressee r (Explain in Re- th (inches): th (inches):	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled 3 d Plants (D1) ermarks)	cept Soils (C6) (LRR A)	<u>Secor</u> W D D D S S S S S S F	later-Staine 4A, and 4 rainage Pal ry-Season aturation Vi eomorphic hallow Aqui hallow Aqui hallow Aqui hallow Aqui hallow Aqui	ed Leaves (I B) Water Table sible on Ae Position (D3) Test (D3) Tounds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
DROLOG etland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface So Inundation Sparsely Wa eld Observat rface Water Fater Table Pre-	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sit (B5) sit (Cracks (B6) Visible on Aerial In egetated Concave tions: Present? Yea ent? Yea	nagery (B7) Surface (B4 s : No	check all that Wate Mi Salt C Aqua Hydro Drese Rece Sunt Other B) Dept	apply) r-Stained Lean LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduct ence of Reduct of Reduct of Stressec (Explain in Reduct the (inches):	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled 3 d Plants (D1) ermarks)	cept Soils (C6) (LRR A)	<u>Secor</u> V D D D S S S S S S	later-Staine 4A, and 4 rainage Pal ry-Season aturation Vi eomorphic hallow Aqui hallow Aqui hallow Aqui hallow Aqui hallow Aqui	ed Leaves (I B) Water Table sible on Ae Position (D3) Test (D3) Tounds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
DROLOG etland Hydro imarv Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely Wa et Observat rface Water F ater Table Pres curdes canilla	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) il Cracks (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye	M Aa ne required;	Check all that Wate Mi Sait C Aqua Hydra Doxidi Prese Rece Stunt Other So Dept Dept	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches):	ves (B9) (exe and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ermarks)	cept Soils (C6) (LRR A)	<u>Secor</u> W D D Si Si Si Si Fi Fi	later-Staine 4A, and 4 rainage Pal ry-Season aturation Vi eomorphic hallow Aqui hallow Aqui hallow Aqui hallow Aqui hallow Aqui	ed Leaves (I B) Water Table sible on Ae Position (D3) Test (D3) Tounds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
DROLOG etland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely Wa eld Observater fater Table Pre- turation Press Curdes canilla	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sit (B5) sit (Cracks (B6) Visible on Aerial In egetated Concave tions: Present? Yea ent? Yea	M Aa ne required;	Check all that Wate Mi Sait C Aqua Hydra Doxidi Prese Rece Stunt Other So Dept Dept	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches):	ves (B9) (exe and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ermarks)	cept Soils (C6) (LRR A)	<u>Secor</u> W D D Si Si Si Si Fi Fi	later-Staine 4A, and 4 rainage Pal ry-Season aturation Vi eomorphic hallow Aqui hallow Aqui hallow Aqui hallow Aqui hallow Aqui	ed Leaves (I B) Water Table sible on Ae Position (D3) Test (D3) Tounds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
DROLOG Tetland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depose Algal Mat o Iron Depose Surface So Inundation Sparsely Ve Ed Observat Inface Water Fater Table Pre- August Pre- Strate Contents of the second Strate Contents	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) il Cracks (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye	M Aa ne required;	Check all that Wate Mi Sait C Aqua Hydra Docidi Prese Rece Stunt Other So Dept Dept	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches):	ves (B9) (exe and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ermarks)	cept Soils (C6) (LRR A)	<u>Secor</u> W D D Si Si Si Si Fi Fi	later-Staine 4A, and 4 rainage Pal ry-Season aturation Vi eomorphic hallow Aqui hallow Aqui hallow Aqui hallow Aqui hallow Aqui	ed Leaves (I B) Water Table sible on Ae Position (D3) Test (D3) Tounds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
DROLOG Tetland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely Wa eld Observat urface Water Fr ater Table Pres- cludes capilla secribe Recom	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Im- egetated Concave tions: Present? Year ent? Year ent? Year of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave of the concave of the concave of the concave bill Cracks (B6) Visible on Aerial Im- egetated Concave of the concave	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ermarks) revious inspe	cept Soils (C6) (LRR A) Wetlan	<u>Secon</u> W D D Si Si Si Si Si Si Fi Fi	Ater-Staine 4A, and 4 rainage Pai ry-Season aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N rost-Heave	ed Leaves (I B) Water Table sible on Aer Position (D2) itard (D3) Test (D5) founds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
DROLOG Tetland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely Wa eld Observat urface Water Fr ater Table Pres- cludes capilla secribe Recom	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Im- egetated Concave tions: Present? Year ent? Year ent? Year of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave of the concave of the concave of the concave bill Cracks (B6) Visible on Aerial Im- egetated Concave of the concave	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ermarks) revious inspe	cept Soils (C6) (LRR A) Wetlan	<u>Secon</u> W D D Si Si Si Si Si Si Fi Fi	Ater-Staine 4A, and 4 rainage Pai ry-Season aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N rost-Heave	ed Leaves (I B) Water Table sible on Aer Position (D2) itard (D3) Test (D5) founds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) il Cracks (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ermarks) revious inspe	cept Soils (C6) (LRR A) Wetlan	<u>Secon</u> W D D Si Si Si Si Si Si Fi Fi	Ater-Staine 4A, and 4 rainage Pai ry-Season aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N rost-Heave	ed Leaves (I B) Water Table sible on Aer Position (D2) itard (D3) Test (D5) founds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Im- egetated Concave tions: Present? Year ent? Year ent? Year of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave of the concave of	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept Soils (C6) (LRR A) Wetlan	<u>Secon</u> W D D Si Si Si Si Si Si Fi Fi	Ater-Staine 4A, and 4 rainage Pai ry-Season aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N rost-Heave	ed Leaves (I B) Water Table sible on Aer Position (D2) itard (D3) Test (D5) founds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
/DROLOG / / / / / / / / / / / / /	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Im- egetated Concave tions: Present? Year ent? Year ent? Year of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave of the concave of	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept Soils (C6) (LRR A) Wetlan	<u>Secon</u> W D D Si Si Si Si Si Si Fi Fi	Ater-Staine 4A, and 4 rainage Pai ry-Season aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N rost-Heave	ed Leaves (I B) Water Table sible on Aer Position (D2) itard (D3) Test (D5) founds (D6) Hummocks	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
(DROLOG) Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment E Drift Depos Algal Mat o Iron Depos Surface So Inundation Sparsely Water Fr Vater Table Present Includes capilla escribe Recom	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Im- egetated Concave tions: Present? Year ent? Year ent? Year of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave ent? Year of the concave of the concave of the concave of the concave of	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept ving Roots Soils (C6) (LRR A) Wetlan	<u>Secor</u> W D D Si Si Fi Fi Fi Fi AHL AHL	Ater-Staine 4A, and 4 rainage Pai ry-Season Vi aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N ost-Heave Present?	Ad Leaves (f B) Items (B10) Water Table sible on Ae Position (D2) Itard (D3) Test (D5) Nounds (D6) Hummocks Yes	39) (MLRA 1, e (C2) rial Imagery (C 2) e (LRR A) (D7)
DROLOG etland Hydro Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface So Inundation Sparsely Wa etd Observat race Water F ater Table Pre- ater Table Pre- scudes capilla- escribe Record marks: P-RASE	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye ent? Ye ent? Ye	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept ving Roots Soils (C6) (LRR A) Wetlan	<u>Secor</u> W D D Si Si Fi Fi Fi Fi AHL AHL	Ater-Staine 4A, and 4 rainage Pai ry-Season Vi aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N ost-Heave Present?	Ad Leaves (f B) Items (B10) Water Table sible on Ae Position (D2) Itard (D3) Test (D5) Nounds (D6) Hummocks Yes	39) (MLRA 1, e (C2) rial Imagery (C 2) (LRR A) (D7)
/DROLOG / / / / / / / / / / / / /	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye ent? Ye ent? Ye	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept ving Roots Soils (C6) (LRR A) Wetlan	<u>Secor</u> W D D Si Si Fi Fi Fi Fi AHL AHL	Ater-Staine 4A, and 4 rainage Pai ry-Season Vi aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N ost-Heave Present?	Ad Leaves (f B) Items (B10) Water Table sible on Ae Position (D2) Itard (D3) Test (D5) Nounds (D6) Hummocks Yes	39) (MLRA 1, e (C2) rial Imagery (C 2) e (LRR A) (D7)
DROLOG Algal Mator Surface Wa Surface Wa Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface So Inundation Sparsely Wa eld Observat arface Water F aturation Press cuddes capilla ascribe Record marks: P. RASE	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye ent? Ye ent? Ye	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	tapplv) r-Stained Lear LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizosphe ince of Reduc and or Stressed (Explain in Re- th (inches): th (inches): erial photos, pr	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept ving Roots Soils (C6) (LRR A) Wetlan	<u>Secor</u> W D D Si Si Fi Fi Fi Fi AHL AHL	Ater-Staine 4A, and 4 rainage Pai ry-Season Vi aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N ost-Heave Present?	Ad Leaves (f B) Items (B10) Water Table sible on Ae Position (D2) Itard (D3) Test (D5) Nounds (D6) Hummocks Yes	39) (MLRA 1, e (C2) rial Imagery (C 2) e (LRR A) (D7)
DROLOG Algal Mator Surface Wa Surface Wa Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface So Inundation Sparsely Wa eld Observat arface Water F aturation Press cuddes capilla ascribe Record marks: P. RASE	Y blogy Indicators: ors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B4) its (B5) of Crust (B6) Visible on Aerial In egetated Concave tions: Present? Ye ent? Ye ent? Ye ent? Ye	magery (B7) Surface (B7) Surface (B7) Surface (B7) s No s No s No s No	check all that Wate Mi Salt C Aqua Hydra Dyrese Rece Stunt Other Conter Dept Dept itoring well, ac	apply) r-Stained Leav LRA 1, 2, 4A, Crust (B11) tic Invertebrate ogen Sulfide C zed Rhizospho ince of Reduct ed or Stresser (Explain in Re- th (inches): th (inches): th (inches): th (inches): th (inches): Erial photos, p	ves (B9) (exc and 4B) es (B13) odor (C1) eres along Li ed Iron (C4) tion in Tilled i d Plants (D1) ernarks) revious inspe	cept ving Roots Soils (C6) (LRR A) Wetlan	<u>Secor</u> W D D Si Si Fi Fi Fi Fi AHL AHL	Ater-Staine 4A, and 4 rainage Pai ry-Season Vi aturation Vi eomorphic hallow Aqui AC-Neutral aised Ant N ost-Heave Present?	Ad Leaves (f B) Items (B10) Water Table sible on Ae Position (D2) Itard (D3) Test (D5) Nounds (D6) Hummocks Yes	39) (MLRA 1, e (C2) rial Imagery (C 2) e (LRR A) (D7)

2

•4.0

- 1 0 .

			- Arid West Region					
Project/Site: WH-3 Drumheller Spring.	SPLYK City	County: Spake	Ane Spokane Sampling Date 5/15/6/03/2025					
Applicant/Owner: D. Flynnonbehalf of Cont	zme) (omp	anions	State: WA Sampling Point: WU-3 Wet					
Investigator(s): <u>S.Col7265</u> Section, Township, Range: <u>Sec.01725NR42E</u>								
Landform (hillslope, terrace, etc.): 2nd rowning ferrace Local relief (concave, convex, none): hone Slope (%):								
Subregion (LRR): Arid West Scenbland Epst: 467198 N Long: 5281631 Datum: MADB34TM21/N								
Soil Map Unit Name: 3117 Northstar Rock Outcrop Rikh Complex Cochilly NWI classification: Vernal Bol								
Are climatic / hydrologic conditions on the site typical for t			(If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No					
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)					
SUMMARY OF FINDINGS - Attach site may	o showing sar	npling point l	locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes	No	Is the Sampled	d Area					
	No	within a Wetla						
	No							
Remarks: Wetland Unit 3 is a Ve disturbed by Construction of	rnal Posl	Hrea WI	hich is proposed to be vtv/N. Msh.P. Turnton.					
đ.			human han human					
VEGETATION - Use scientific names of pla	nts.							
Tree Stratum (Plot size: 30×30)	Absolute Dor % Cover Spe	ninant Indicator	Dominance Test worksheet:					
1.		: Change	Number of Dominant Species That Are OBL, FACW, or FAC: (A)					
2			Total Number of Dominant					
3			Species Across All Strata: (B)					
4			Percent of Dominant Species					
Sapling/Shrub Stratum (Plot size: 30 × 36)	Protocol Control of Co	tal Cover	That Are OBL, FACW, or FAC: (A/B)					
1. Woods Rose	<u>3</u>	/ FACIL	Prevalence Index worksheet:					
2			Total % Cover of: Multiply by:					
3			OBL species \underline{Z} $x1 = \underline{Z}$ FACW species \underline{B} $x2 = \underline{0}$					
4			FAC species $1 \times 3 = 3$ //					
5		tal Cover	FACU species x4 = 110					
Herb Stratum (Plot size: 30 × 30)	In V		UPL species $\underbrace{\bigcirc}_{x5=} \underbrace{\bigcirc}_{x6=}$					
1. Camas (Camassia quamash)	<u>40 Y</u>	FACU	Column Totals:(A) (B)					
2. Wild Onion	E V	1 de 1	Prevalence Indéx = B/A =					
4 Nagith Desult Richer	5 N	EACU	Hydrophytic Vegetation Indicators:					
5. Bitteropt	<u>5</u> N	FACU	\bigvee Dominance Test is >50% \bigvee Prevalence Index is $\leq 3.0^{1}$					
6. Wild Celery	VO N	OBL	Morphological Adaptations ¹ (Provide supporting					
7. Cook Desert Parsley	5 N	FAC.	data in Remarks or on a separate sheet)					
Tuffed Hairs nos (Beschampsin		tal CoverACN	— Problematic Hydrophytic Vegetation ¹ (Explain)					
Woody Vine Stratum (Plot size: 30 × 30) C 44	25pitesa)		¹ Indicators of hydric soil and wetland hydrology must					
1			be present, unless disturbed or problematic.					
2	100 = To	tal Cover	Hydrophytic					
Basa Hoscabland mounds, % Bare Ground in Herb Stratum 1296, % Cov	er of Biotic Crust		Vegetation Present? Yes No No					
Remarks:								
Please see "Certified What	10	A.						
Please see "Certisted Wetle "Camas Wet Meadow - Vern	al Pool Ar	rt+ pt	-3"					
			•					

US Army Corps of Engineers

-,

1033 57 223

VSGLL6 #05U54 4/10/2025

Arid West - Version 2.0

ofile Description: (Describ	e to the depth ne	eded to document t	the indicator (or confirm	the absenc	e of indicators.)	
epth <u>Matrix</u> iches) Color (moist)		Redox Feat		Loc ²	Texture	Remarks	
						(FROM Biotic crus	t
1						Brown Sitt Lowm-Very	0 1
-3 10YR3/2						Mover series	AVE
()	**************************************				~	Basalt Bedrock	· / ·
)	"Thin DarkSurfac	cl
				*****)
							a second de la constance de la
				-	والباد والمتحد المتحديد وربي		
						-	
pe: C=Concentration, D=De	epletion, RM=Red	uced Matrix, CS=Cov	rered or Coate	d Sand Gra	ins. Lo Indical	contion: PL=Pore Lining, M=Matrix tors for Problematic Hydric Soils	<u>.</u> 3.
dric Soil Indicators: (Appl			noted.j			em Muck (A10)	
Histosol (A1)		Sandy Redox (S5) Stripped Matrix (S6)				d Parent Material (TF2)	
_ Histic Epipedon (A2) Black Histic (A3)		Loamy Mucky Minera	I (F1) (except	MLRA 1)		ry Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix			Ot	her (Explain in Remarks)	
Depleted Below Dark Surfa		Depleted Matrix (F3)	10 1 1	L RVPX	- Basal	()	
Thick Dark Surface (A12)		Redox Dark Surface (Indicat	ors of hydrophytic vegetation and	
Sandy Mucky Mineral (S1)		Depleted Dark Surfac				and hydrology must be present,	
Sandy Gleyed Matrix (S4)		Redox Depressions (I	F8)		unle	ss disturbed or problematic.	
strictive Layer (if present):							
Type: Baisalt B	earozk_		-		I budata Cai	il Present? Yes No	
Depth (inches): 0-3"					Hydric So	Il Present? Yes <u>1</u> NO	
Pools Area h	143,		Chive	1. 20	au (04	nd-Vernal	
Pools Arca h	143,						
Pools Arca h DROLOGY etland Hydrology Indicators	14-3 , 					· · ·	
Pools Arca h DROLOGY etland Hydrology Indicators	14-3 , 	ck all that apply)			Secc	ondary Indicators (2 or more require	
Pools Arca h DROLOGY etland Hydrology Indicators	14-3 , 				Secc	ondary Indicators (2 or more require Mater-Stained Leaves (B9) (MLRA	
Pools Arca h DROLOGY etland Hydrology Indicators mary Indicators (minimum of	14-3 , 	ck all that apply) Water-Stained Le MLRA 1, 2, 4	eaves (B9) (ex		<u>Secc</u>	ondary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B)	
Pool S Arca h DROLOGY atland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	14-3 , 	ck all that apply) Water-Stained Le MLRA 1, 2, 4 Salt Crust (B11)	eaves (B9) (ex A, and 4B)		<u>Secc</u>	ondary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10)	
Pool S Arca h DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	14-3 , 	ck all that apply) Water-Stained Le MLRA 1, 2, 4 Satt Crust (B11) Aquatic Invertebr	eaves (B9) (ex A, and 4B) rates (B13)		<u>Secc</u>	ondary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	1, 2,
Pool & Arca h DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	14-3 , 	CK all that apply) Water-Stained Lo MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1)	cept		ondary Indicators (2 or more requir Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager	1, 2,
Pool S Arca h DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	IW-3, s: one required; che	<u>ck all that apply)</u> Water-Stained Lo MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L	cept iving Roots	<u>Secc</u> 	Andary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2)	1, 2,
Pool & Arca h DROLOGY etland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	IW-3, s: one required; che	<u>ck all that apply)</u> Water-Stained Lo MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4)	cept iving Roots	<u>Secc</u> 	ondary Indicators (2 or more requin Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3)	1, 2,
Pool S Arca h DROLOGY etland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	IW-3, s: one required; che	 <u>ck all that apply</u> <u>Water-Stained Lo</u> <u>MLRA 1, 2, 4</u> <u>Satt Crust (B11)</u> Aquatic Invertebr <u>Hydrogen Sulfide</u> Oxidized Rhizosp Presence of Red <u>Recent Iron Redu</u> 	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled	cept iving Roots Soils (C6)	<u>Secc</u> / / / 	ondary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	1, 2,
Pool & Arca h DROLOGY etland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Bas Iron Deposits (B5) Surface Soil Cracks (B6)	IU-3, cone required: che atsc(rus(ck all that apply) Water-Stained Lo MLRA 1, 2, 4. Satt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosy Presence of Red Recent Iron Redu Stunted or Stress	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1	cept iving Roots Soils (C6)	<u>Secc</u> 	Andary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	1, 2,
Pool S Arca h DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial	IW-S, cone required; che atsc(rus(Imagery (B7)	 <u>ck all that apply</u> <u>Water-Stained Lo</u> <u>MLRA 1, 2, 4</u> <u>Satt Crust (B11)</u> Aquatic Invertebr <u>Hydrogen Sulfide</u> Oxidized Rhizosp Presence of Red <u>Recent Iron Redu</u> 	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1	cept iving Roots Soils (C6)	<u>Secc</u> 	ondary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	1, 2,
Pool & Anca M DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concar	IW-S, cone required; che atsc(rus(Imagery (B7)	ck all that apply) Water-Stained Lo MLRA 1, 2, 4. Satt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosy Presence of Red Recent Iron Redu Stunted or Stress	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1	cept iving Roots Soils (C6)	<u>Secc</u> 	Andary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	1, 2,
Pool & Anca M DROLOGY atland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concar add Observations:	IW-S cone required; che at sc(rus(Imagery (B7) ve Surface (B8)	Ck all that apply) Water-Stained Le MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks)	cept iving Roots Soils (C6)	<u>Secc</u> 	Andary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	1, 2,
Pool S Anca h DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concat Id Observations: rface Water Present?	IW-S s: <u>one required; che</u> Af St (rus(Imagery (B7) ve Surface (B8) Yes <u>1</u> , No	ck all that apply) Water-Stained Le MLRA 1, 2, 4. Satt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Storted or Stress Other (Explain in Depth (inches):	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks)	cept iving Roots Soils (C6)	<u>Secc</u> 	Andary Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	1, 2,
Pool & Anca M DROLOGY etland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concar Id Observations: fface Water Present?	IW-S s: <u>one required; che</u> Af St (rus(Imagery (B7) ve Surface (B8) Yes <u>V</u> : No Vos <u>V</u> No	ck all that apply) Water-Stained Le MLRA 1, 2, 4. Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Stunted or Stress Other (Explain in Depth (inches): Depth (inches):	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks)	cept iving Roots Soils (C6)) (LRR A)	<u>Secc</u> 	ondary Indicators (2 or more requine Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) =AC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) =rost-Heave Hummocks (D7)	1, 2,
Pool S Arca h DROLOGY etland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) B Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concat Id Observations: rface Water Present? turation Present?	I Imagery (B7) ve Surface (B8) Yes V No Yes No Yes No	ck all that apply) Water-Stained Lo MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Stunted or Stress Other (Explain in Depth (inches): Depth (inches): Depth (inches):	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks) $(g - f^{(2)})$ $(g - f^{(2)})$	cept iving Roots Soils (C6)) (LRR A)	<u>Secc</u> 	Adam Adam Adam Adam Adam Adam Adam Adam	1, 2,
Pool S Arca h DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) B Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concar Induction Visible on Aerial Sparsely Vegetated Concar Induction Visible on Aerial Sparsely Vegetated Concar Induction Visible on Aerial Sparsely Vegetated Concar State Table Present? Ituration Present? Inter Table Present?	I Imagery (B7) ve Surface (B8) Yes V No Yes No Yes No	ck all that apply) Water-Stained Lo MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Stunted or Stress Other (Explain in Depth (inches): Depth (inches): Depth (inches):	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks) $(g - f^{(2)})$ $(g - f^{(2)})$	cept iving Roots Soils (C6)) (LRR A)	<u>Secc</u> 	ondary Indicators (2 or more requine Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) =AC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) =rost-Heave Hummocks (D7)	1, 2,
Pool & Arca A DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concat eld Observations: Inface Water Present?	I Imagery (B7) ve Surface (B8) Yes V No Yes No Yes No	ck all that apply) Water-Stained Lo MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Stunted or Stress Other (Explain in Depth (inches): Depth (inches): Depth (inches):	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks) $(g - f^{(2)})$ $(g - f^{(2)})$	cept iving Roots Soils (C6)) (LRR A)	<u>Secc</u> 	ondary Indicators (2 or more requine Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) =AC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) =rost-Heave Hummocks (D7)	1, 2,
Pool S Arca M DROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concar and Observations: rface Water Present? ater Table Present? turation Present? cludes capillary fringe) scribe Recorded Data (stream	IW-S in a contract of the second sec	ck all that apply) Water-Stained La MLRA 1, 2, 4. Sait Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in Depth (inches): Depth (inches): Depth (inches): ng well, aerial photos,	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks) $(2 - 1^{-17})$ $(3 - 1^{-17})$ $(3 - 1^{-17})$ previous insp	cept iving Roots Soils (C6)) (LRR A) Wetlan ections), if	Secc /	Adam Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	1, 2,
Pool & Arca h DROLOGY tland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concat Id Observations: face Water Present? ter Table Present? tudes capillary fringe) scribe Recorded Data (stream	IW-S in a contract of the second sec	ck all that apply) Water-Stained La MLRA 1, 2, 4. Sait Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in Depth (inches): Depth (inches): Depth (inches): ng well, aerial photos,	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks) $(2 - 1^{-17})$ $(3 - 1^{-17})$ $(3 - 1^{-17})$ previous insp	cept iving Roots Soils (C6)) (LRR A) Wetlan ections), if	Secc /	Adam Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	1, 2,
Pool & Arca A DROLOGY tland Hydrology Indicators mary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concar Id Observations: face Water Present? ter Table Present? turation Present? Indes capillary fringe) cribe Recorded Data (stream	IW-S in a contract of the second sec	ck all that apply) Water-Stained La MLRA 1, 2, 4. Sait Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in Depth (inches): Depth (inches): Depth (inches): ng well, aerial photos,	eaves (B9) (ex A, and 4B) rates (B13) e Odor (C1) pheres along L luced Iron (C4) uction in Tilled sed Plants (D1 Remarks) $(2 - 1^{-17})$ $(3 - 1^{-17})$ $(3 - 1^{-17})$ previous insp	cept iving Roots Soils (C6)) (LRR A) Wetlan ections), if	Secc /	Adam Indicators (2 or more require Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	1, 2,

US Army Corps of Engineers

....

:

Meadow Series

WU-3 Vernal Pools Area

	11.	Columbia sedge (Carex aperta) ≥25 percent canopy coverage or dominant Columbia sedge (CAAP3) association
	12.	Water sedge (Carex aquatilis var. aquatilis) and/or Sitka sedge (Carex aquatilis var. sitchensis) ≥25 percent canopy coverage or dominantWater sedge (CAAQ) association
	13.	Mud sedge (<i>Carex limosa</i>) and/or poor sedge (<i>Carex paupercula</i>) ≥25 percent canopy coverage or dominant
	14.	Slender sedge (Carex lasiocarpa) and/or Buxbaum's sedge (Carex buxbaumii) ≥25 percent canopy coverage or dominantSlender sedge (CALA4) association
	15.	Lenticular sedge (Carex lenticularis) ≥25 percent canopy coverage or dominant Lenticular sedge (CALE5) association
	Ke	y to the Nonsedge Plant Associations
	1.	Creeping spike-rush (<i>Eleocharis palustris</i>) ≥25 percent canopy coverage or dominantGo to the key to the AQUATIC series or creeping spike-rush (ELPA) association
	2.	Few-flowered spike-rush (<i>Eleocharis pauciflora</i>) ≥25 percent canopy coverage or dominant
	3.	Cotton-grass species (<i>Eriophorum</i> spp.), individually or in combination, ≥10 percent canopy coverageMany-spiked cotton-grass (ERPO2) association
	4.	Small-fruited bulrush (Scirpus microcarpus) ≥25 percent canopy coverage or dominant
	5.	Tall mannagrass (Glyceria elata) and/or reed mannagrass (G. grandis) ≥25 percent canopy coverage or dominant Tall mannagrass (GLEL) association
Mendow	/ 6.	Bluejoint reedgrass (Calamagrostis canadensis) ≥ 25 percent canopy coverage or dominant $A = A = A = A = A = A = A = A = A = A $
Camas	7.	Tufted hairgrass (Deschampsia cespitosa) 225 percent canopy
	8.	Timber oatgrass (<i>Danthonia intermedia</i>) ≥25 percent canopy coverage or dominant (plots with abundant but hidden, minute, <i>Ericaceous</i> shrubs should stay here) Timber oatgrass (DAIN) association
	9.	Sheep fescue (Festuca ovina var. rybergii) ≥25 percent canopy coverage or dominant (plots with abundant but hidden, minute, <i>Ericaceous</i> shrubs should stay here) Sheep fescue (FEOVR) association
		Introduced or increaser grasses such as Kentucky bluegrass (<i>Poa pratensis</i>), reed canarygrass (<i>Phalaris arundinacea</i>), redtop (<i>Agrostis alba</i>), or Oregon bentgrass (<i>Agrostis oregonensis</i>) ≥25 percent canopy coverage or dominant

15.6llib 2005 4520 6/17/2020