OCTOBER 6, 2022

# FRAIZ PROPERTY

## AQUATIC RESOURCE INVENTORY

### PREPARED BY:

Jeff Klausmann and Emma Vautour Intermountain Aquatics, Inc. 116 Mustang Dr. Driggs, ID 823422

## **PREPARED FOR:**

Brian and Whitney Fraiz 11005 Pleasantview Drive Carmel IN 46033



## EXECUTIVE SUMMARY

Aquatic resources within a 40-acre area of interest (AOI) on private property on W 5000 S in Victor, ID were delineated based on standard field procedures and review of maps and aerial imagery.

Waters of the U.S. identified included 32.9 acres of wetlands and stream within the 40-acre area of interest (AOI).

Aquatic resources presented in this report were delineated according to the 1987 manual, subsequent memorandums and the 2010 Western Mountains, Valleys & Coast supplement. The Western Mountains, Valleys & Coast 2020 Regional Wetland Plant List (US Army Corp of Engineers) was used to determine plant indicator status. Soils were classified using the NRCS Field Indicators of Hydric Soils in the United States (version 8.0, 2016).

The dominant hydrologic influence within the AOI is surface water and associated high groundwater from Foster's Slough, Fox Creek, and irrigation ditches.



Map of Wetland Features delineated 2022

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## 1. INTRODUCTION

Intermountain Aquatics visited the site in June and August of 2022 to investigate the presence and extent of aquatic resources and to delineate jurisdictional wetlands. The property is located in Teton County, northwest of Victor, ID. The owners are developing plans for the site including a homesite and associated structures. An existing conservation easement held by Teton Regional Land Trust specifies a 5-acre building envelope in the northeast corner of the property.

This report facilitates efforts to:

- o Avoid or minimize impacts to aquatic resources when evaluating development options.
- o Document aquatic resource boundary determinations for review by regulatory authorities.

## 2. CONTACT INFORMATION

#### Applicant / Property Owner:

Brian and Whitney Fraiz 11005 Pleasantview Drive Carmel IN 46033

#### Agent:

Jeffrey Klausmann Intermountain Aquatics, Inc. 116 Mustang Dr. / PO Box 1115 Driggs, ID 83422

## 3. LOCATION

The Fraiz Property is located in Teton County, Idaho, near Victor (Figure 1) in NE4 NE4 SEC 29 T4N R45E. The property is private land. It is situated on Fox Creek at the south end of Foster's Slough, a half mile from the Teton River. The property is accessed from W 5000 S.

#### Figure 1. Vicinity Map



## 4. LANDSCAPE SETTING

The Fraiz property is located within the Teton River Basin within a large complex of emergent wetlands. Fox Creek and an unnamed tributary run through the south side of the property. Foster Slough extends across the northwest quadrant of the property to Fox Creek near the center of the 40-acre parcel. Three large culverts allow water to pass under W 5000 S into the main portion of Foster Slough. The property is relatively flat with slight topographic variation formed around a network of swales branching off Foster's Slough. An irrigation ditch enters the property in the northeast quarter at which point irrigation water appears to return to natural swales.

The property has been grazed for many years and there is a relative lack of woody vegetation on the north side of Fox Creek compared to the south side which is more difficult for cattle to access. The site is dominated by herbaceous species, primarily sedges and grasses. Woody vegetation includes primarily willows and shrubby cinquefoil.

The property's main hydrologic influences are surface water and associated high groundwater in Fox Creek, the unnamed tributary, and Foster Slough as well as an unknown amount of irrigation water entering the property on the northeast corner. Foster Slough was historically more connected from the south side to the north side of W 5000 S, enough so that boats could pass through from Fox Creek. Recently, the channel has been mostly disconnected and boats can no longer float though Foster Slough, and upper Foster Slough was dry during every site visit in 2022.

## 5. METHODS

## 5.A. DATA SOURCES & FIELD DATA COLLECTION

Prior to conducting field investigations, various data sources were reviewed to gather preliminary information on land use history, vegetation, soils, and hydrologic characteristics of the site. The following data sources were reviewed prior to the field investigation:

- □ U.S.G.S topographic maps
- □ Aerial Photographs (Google Earth, NAIP)
- D National Wetlands Inventory (U.S. Fish and Wildlife Service)
- □ FEMA Flood Hazard GIS maps
- □ Historic aerial imagery
- USDA NRCS Soil Survey
- National Hydrography Dataset

Wetlands were delineated according to the 1987 manual, memorandums and the 2010 Western Mountains, Valleys, and Coast Region supplement. The Western Mountains, Valleys, and Coast Region 2020 Regional Wetland Plant List (US Army Corp of Engineers) was used to determine plant indicator status. Soils were classified using the NRCS Field Indicators of Hydric Soils in the United States (version 8.0, 2016).

During multiple site visits conducted in August 2022 IMA identified the presence and extent of wetlands and other aquatic resources within the AOI. Sample points were located in potential wetland and upland areas. Field data was recorded on data sheets copied from the 2010 Western Mountains, Valleys, and Coast Region supplement. A test pit was dug at each sample location to characterize soils and hydrology. Wetland determinations were made at each

sample point to confirm and/or refine the initial wetland mapping. Wetlands were then delineated from a change in vegetation and topography. Wetlands were field mapped, recorded by using GPS tracks and/or sketched onto aerial imagery.

## 5.B. MAPPING RELEVANT TO DELINEATION & LANDSCAPE SETTING



### Figure 2. 2020 USGS Topo of Area of Interest

Figure 3. 1992 USGS Topo of Area of Interest



## Figure 4. 2019 NAIP Aerial Image



Figure 5 Google earth image aerial June 2017



## Figure 6 Google earth image aerial July 2016



## Figure 7.Google earth image aerial June 2009



## Figure 8 Google earth image aerial July 1999



Figure 9 Google earth image aerial June 1992





#### Figure 10 NWI Map of Area of Interest

#### Figure 11 USGS National Hydrography Map of Project Location





#### Figure 12. Draft FEMA Floodplain Flood Risk Map

## 6. AQUATIC RESOURCES

Wetlands were found throughout the AOI totaling 32.9 acres. Wetlands are roughly two-thirds palustrine emergent sedge meadows north and east of Fox Creek and one-third scrub-shrub wetland concentrated south of Fox Creek. Wetlands are supported by seasonal high groundwater and surface water in Fox Creek and Foster's Slough. Vegetation generally transitions from predominantly FAC to FACW species in the wetlands, to FACW to FACU in the uplands. Sample points that lacked hydrology had a higher prevalence of FACU species. Most of the sample points were characterized by dark loamy soils and many with a lighter-colored clay layer below at variable depths. Riverine resources on the property include a total of 1776 linear feet of Fox Creek (C1) and 602 linear feet of an unnamed tributary to Fox Creek.

Aquatic Resource Name	Aquatic Resource Type	Cowardin Classification	Location (WGS84)	Area (acres)	Linear Feet
Wı	Wetland	PEM1	43°38'58.18"N, 111° 9'49.89"W	17.3	n/a
W2	Wetland	PEM1	43°38'51.14"N, 111° 9'41.86"W	4.5	n/a
W <sub>3</sub>	Wetland	PSS	43°38'50.80"N, 111° 9'54.31"W	8.7	n/a
C1	Creek	R <sub>3</sub> UB1H	43°38'54.19"N, 111° 9'51.30"W	1.9	1776
C2	Creek	R <sub>3</sub> UB <sub>1</sub> H	43°38'55.38"N, 111° 9'44.52"W	0.5	662

#### Table 1. Aquatic Resources within the Area of Interest

## 7. REFERENCES

Environmental Laboratory. 1987 Corps of Engineers Wetlands Delineation Manual. US Army Corps of Engineers. Wetlands Research Program Technical Report Y-87-1.

Google Earth Historical Imagery

Merdel, M.K., Lichvar, R.W. A Guide to Ordinary High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States. US Army Corps of Engineers

Lichvar, R.W, D.L. Banks, W.N. Kirchner, and N.C. Melvin. Western Mountains, Valleys & Coast 2020 Regional Wetland Plant List. US Army Corps of Engineers

National Wetlands Inventory. https://www.fws.gov/wetlands/data/mapper.HTML. U.S. Fish and Wildlife Service.

NRCS. 2016 Field Indicators of Hydric Soils in the United States. Version 8.0

US Army Corps of Engineers. 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountain, Valleys, and Coast Region (V. 2.0). Wetlands Regulatory Assistance Program. ARDC/EL TR-10-3

USDA NRCS Soil Survey. https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm. Custom Soil Resource Report for Teton Area, Idaho and Wyoming

USGS. 7.5 minute series topographic maps

USGS. 2015, Streamer online mapping application available online at https://txpub.usgs.gov/DSS/streamer/web/.

APPENDIX A - AQUATIC RESOURCE INVENTORY MAP



## APPENDIX B - SUMMARY OF SAMPLE POINT INFORMATION

## Sample Point Information

Sample Point	Lat	Long	Resources Present	Feature Label
1	43°39'1.08"N	111° 9'41.87"W	Upland	NA
2	43°39'0.06"N	111° 9'41.81"W	Wetland	W1
3	43°38'58.26"N	111° 9'40.93"₩	Upland	NA
4	43°38'57.48"N	111° 9'42.80"₩	Wetland	W1
5	43°38'53.62"N	111° 9'42.30"₩	Upland	NA
6	43°38'55.86"N	111° 9'50.79"₩	Upland	NA
7	43°38'53.22"N	111° 9'55.38"₩	Upland	NA
8	43°38'52.51"N	111° 9'57.22"₩	Wetland	W3



1A Sample Point



2A Sample Point



3A Sample Point



1B Sample Point



2B Sample Point



3B Sample Point



4A Sample Point



5A Sample Point



6A Sample Point



4B Sample Point



5B Sample Point



6B Sample Point



7A Sample Point



7B Sample Point



8 Sample Point

## APPENDIX C – PHOTOGRAPHS

## **General Photo Points**



From W 5000 S looking south along Foster Slough



From W 5000 S looking southeast from Foster Slough



Northwest corner of property looking east



Center property near Fox Creek looking west

### Fraiz Property ARI



Fox Creek north side looking southeast





North side of unnamed creek looking east



Fox Creek north side looking south



Confluence of unnamed creek and Fox Creek looking south



Unnamed creek looking southwest



Northeast side of property looking east



Swale on east side of property looking northwest



Existing culvert crossing across unnamed creek



Northeast side of property looking



Unnamed creek looking southwest



Fox creek bank erosion, north side



Upland area on north west side of property looking west



Connection between Foster's Slough and Fox Creek



Foster's slough looking northwest



Foster's slough looking northwest



North central property looking southeast



Northeast property looking south



Willow stands south of Fox Creek



Willow stands south of Fox Creek



Willow stands south of Fox Creek

## APPENDIX D: PLANT LIST

Genus	species	Common	WIS
Achillea	millefolium	Common yarrow	FACU
Agrostis	stolonifera	Creeping bentgrass	FACW
Alopecurus	pratensis	field meadow foxtail	FACW
Aster	laevis	Smooth aster	FACU
Bromus	inermis	Smooth brome	FAC
Carex	nebrasensis	Nebraska sedge	FACW
Carduus	nutans	Musk thistle	FAC
Cirsium	arvense	Canada thistle	FAC
Iris	missouriensis	Western blue flag iris	FACW
Juncus	arcticus (aka balticus)	Arctic rush	FACW
Medicago	lupulina	black medic	FACU
Phleum	pratense	timothy	FAC
Plantago	major	Broadleaf plantain	FAC
Potentilla	pulcherrima	Soft cinquefoil	FAC
Taraxacum	officinale	Dandelion	FACU

## APPENDIX E – WETLAND DELINEATION DATA FORMS

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz		City/County	: Teton			Sampling Date:	8/4/22	
Applicant/Owner:	Brian Fraiz		State: ID			Sampling Point:	1	
Investigator(s): EV		Section, To	Section, Township, Range: NE4			NE4 SEC 29 T4N R45E		
Landform (hillside, te	errace, etc.):	Local relief (con	Local relief (concave, convex, none):			Slope (%):		
Subregion (LRR):	LRR E, MLRA 43B Lat: 43°39	)'1.08"N	Long: 111° 9	9'41.87"W		Datum:	WGS84	
Soil Map Unit Name	Furniss-Boquet complex			N	WI classif	fication: PEM		
Are climatic / hydrolo	ogic conditions on the site typical fo	or this time of year? Ye	es <u>X</u> N	o	(If no, exp	olain in Remarks.)		
Are Vegetation	, Soil, or Hydrology	significantly disturbed? Are	"Normal Circu	mstances"	present?	Yes <u>X</u> No	)	
Are Vegetation	, Soil, or Hydrology	naturally problematic? (If i	needed, explair	n any answ	ers in Rer	marks.)		

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	Is the Sampled Area within a Wetland?	Yes	NoX
Remarks:						

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2		·		Are OBL, FACW, or FAC: <u>2</u> (A)
3		·		Total Number of Dominant Species
4		Tatal Origina		Across All Strata: <u>2</u> (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1				Providence a la deve consulado e etc
2		·		Prevalence Index worksheet:
3		·		Total % Cover of: Multiply by:
4		·		OBL species $0 \times 1 = 0$
5		Tatal Cause		FACW species $25$ $x = 50$
		=Total Cover		FAC species 60 x 3 = 180
Herb Stratum (Plot size: 5' x 5' )	05		=	FACU species $15$ x 4 = $60$
1. Carex nebrascensis	25	Yes	FACW	UPL species $0 \times 5 = 0$
2. Plantago major	10	No	FAC	Column Totals: 100 (A) 290 (B)
3. Medicago lupulina	10	No	FACU	Prevalence Index = B/A = 2.90
4. Taraxacum officinale	5	No	FACU	
5. Fac Grasses	50	Yes	FAC	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
10				data in Remarks or on a separate sheet)
11				5 - Wetland Non-Vacular Plants <sup>1</sup>
	100	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

SOIL

Depth	Matrix		Redo	x Featur	es					
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks	
0-2	10YR 3/3	100								
2-10	10YR 3/2	100								
10-14	10YR 4/1	100		_	_	_				
<b>3</b> 1	ncentration, D=Depl					ated Sa	and Grains.		PL=Pore Lining, M=Ma	-
-	ndicators: (Applica	ble to all LR			-				Problematic Hydric S	oils":
Histosol (	. ,		Sandy Rec	• •				2 cm Muck		
	ipedon (A2)		Stripped M	•	'				Material (F21)	
Black His	( )		Loamy Mu	-		except	MLRA 1)		w Dark Surface (F22)	
_ · ·	n Sulfide (A4)		Loamy Gle	•	• •			Other (Expl	ain in Remarks)	
Depleted	Below Dark Surface	e (A11)	X Depleted N	/atrix (F	3)					
	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)					
Sandy M	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)			<sup>3</sup> Indicators of hy	/drophytic vegetation a	and
	ucky Peat or Peat ( eyed Matrix (S4)	S2) <b>(LRR G)</b>	Redox Dep	pression	s (F8)			,	drology must be preser urbed or problematic.	nt,
estrictive L	ayer (if observed):									
Туре:			_							
	ches):						Hydric So	oil Present?	Yes X	No

## HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n of one is required	; che	ck all th	nat apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)		Water-Stained Leaves (B9) (except				Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)			ML	RA 1, 2, 4A, and 4B)		4A, and 4B)				
Saturation (A3)			Salt Cr	rust (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatio	c Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydrog	en Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Oxidize	ed Rhizospheres on Living Ro	ots (C3)	Geomorphic Position (D2)				
Algal Mat or Crust (B4)			Preser	ice of Reduced Iron (C4)		Shallow Aquitard (D3)				
Iron Deposits (B5)		Recent Iron Reduction in Tilled Soils (C6)				X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6	)		Stunte	d or Stressed Plants (D1) ( <b>LR</b>	( <b>R A</b> )	Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Remarks)				Frost-Heave Hummocks (D7)				
Sparsely Vegetated Cor	ncave Surface (B8)					—				
Field Observations:										
Surface Water Present?	Yes	No	Х	Depth (inches):						
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland	I Hydrology Present? Yes No X				
(includes capillary fringe)		_								
Describe Recorded Data (st	ream gauge, monit	oring	well, a	erial photos, previous inspecti	ions), if ava	ilable:				
Remarks:										

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz	City/C	Sampli	ng Date:	8/4/22									
Applicant/Owner:	Brian Fra	niz						State:	ID	Samplii	ng Point:	2	<u>}</u>
Investigator(s): EV					Section	Section, Township, Range: <u>NE4NE4 SEC</u>					29 T4N R45E		
Landform (hillside, te	Local relief		Slope (%):										
Subregion (LRR):	LRR E, N	/ILRA 43B	Lat:	43°39'0.02"N		Lon			Datum:	WGS8	34		
Soil Map Unit Name:	Furniss-E	Boquet comp	lex					N	IWI classif	fication: P	PEM		
Are climatic / hydrolc	ogic condit	ions on the s	ite ty	pical for this time	e of year?	Yes )	<u>(</u> No	o	(If no, exp	olain in Re	marks.)		
Are Vegetation	, Soil	, or Hydro	logy	significantl	y disturbed?	Are "Nori	mal Circur	nstances'	' present?	Yes	X No	o	
Are Vegetation	, Soil	, or Hydro	logy	naturally p	roblematic?	(If neede	d, explain	any answ	ers in Rer	marks.)			
SUMMARY OF	FINDING	SS – Attac	h si	te map show	ing sampl	ing poin	t locati	ons, tra	nsects,	import	ant feat	ures,	etc.

|--|

bottom of shallow swale

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1		·		Number of Dominant Species That
2		·		Are OBL, FACW, or FAC:(A)
3		·		Total Number of Dominant Species
4				Across All Strata: 1 (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:				Are OBL, FACW, or FAC:(A/B)
1				
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species 100 x 2 = 200
	u	=Total Cover		FAC species 0 x 3 = 0
Herb Stratum (Plot size: 5' x 5' )				FACU species 0 x 4 = 0
1. Carex nebrascensis	95	Yes	FACW	UPL species 0 x 5 = 0
2. Juncus balticus	5	No	FACW	Column Totals: 100 (A) 200 (B)
3				Prevalence Index = B/A = 2.00
4.				
5.				Hydrophytic Vegetation Indicators:
6.	-			1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
9.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
10.				data in Remarks or on a separate sheet)
11.		·		5 - Wetland Non-Vacular Plants <sup>1</sup>
	100	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

SOIL

	cription: (Describe	to the dept				tor or c	onfirm the	e absence of indi	cators.)				
Depth (in the c)	Matrix	0/		x Featur %		Loc <sup>2</sup>	<b>T</b>		Demender				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	LOC	Tex	dure	Remarks				
0-4	10YR 2/2	100											
4-10	10YR 3/2	100											
10-16	10YR 4/2	100											
		. <u> </u>											
		. <u> </u>											
		. <u> </u>											
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, C	S=Cove	ered or Co	pated Sa	and Grains	<sup>2</sup> Location: I	PL=Pore Lining, M=	Matrix.			
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless othe	erwise n	oted.)			Indicators for F	Problematic Hydrid	: Soils <sup>3</sup> :			
Histosol	(A1)		Sandy Red	dox (S5)				2 cm Muck	(A10)				
Histic Ep	oipedon (A2)		Stripped N	latrix (Se	6)		Red Parent Material (F21)						
Black Hi	stic (A3)		Loamy Mu	cky Min	eral (F1)	(except	pt MLRA 1) Very Shallow Dark Surface (F22)						
Hydroge	n Sulfide (A4)		Loamy Gle	eyed Ma	trix (F2)			Other (Expl	ain in Remarks)				
Depleted	d Below Dark Surface	e (A11)	X Depleted M	Aatrix (F	3)								
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	ce (F6)								
Sandy M	lucky Mineral (S1)		Depleted [	Dark Sur	face (F7)			<sup>3</sup> Indicators of hy	drophytic vegetatio	n and			
2.5 cm N	/lucky Peat or Peat (	S2) (LRR G	) Redox Dep	oression	s (F8)			wetland hyc	Irology must be pre	sent,			
Sandy G	Bleyed Matrix (S4)							unless distu	irbed or problematio	<b>.</b>			
Restrictive I	Layer (if observed):												
Type:													
Depth (ir	nches):						Hydric S	oil Present?	Yes X	No			
Remarks:													
	, dry, without much	structure											
. ,	-												

## HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimum	n of one is required	; cheo	ck all tha	at apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)		١	Water-S	tained Leaves (B9) ( <b>except</b>		Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)			MLR	A 1, 2, 4A, and 4B)		4A, and 4B)				
Saturation (A3)		:	Salt Cru	st (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatic	Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydroge	en Sulfide Odor (C1)		X Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)			Oxidized	d Rhizospheres on Living Roo	ots (C3)	Geomorphic Position (D2)				
Algal Mat or Crust (B4)			Presenc	e of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)			Recent I	Iron Reduction in Tilled Soils	(C6)	X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6	)		Stunted	or Stressed Plants (D1) (LRI	<b>R A</b> )	Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Ae	rial Imagery (B7)		Other (E	Explain in Remarks)		Frost-Heave Hummocks (D7)				
Sparsely Vegetated Con	icave Surface (B8)									
Field Observations:										
Surface Water Present?	Yes	No	х	Depth (inches):						
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland	d Hydrology Present? Yes X No				
(includes capillary fringe)										
Describe Recorded Data (str	eam gauge, monit	oring	well, aei	rial photos, previous inspection	ons), if ava	ilable:				
Remarks:										
soil moist but not saturated										

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz	City/Co	unty: Tetor		Sampling Date	e: <u>8</u>	/4/22						
Applicant/Owner:	Brian Fraiz	Z						State:	ID	Sampling Poin	it:	3
Investigator(s): EV					Section,	Township,	Range:	NE4NE4 SEC 29 T4N R45E				
Landform (hillside, te	Local relief (	concave, co		Slope (%):								
Subregion (LRR):	LRR E, MI	_RA 43B	Lat:	43°38'58.22"N		Long:	111° 9'	40.96"W		Datum	ו: <u>א</u>	VGS84
Soil Map Unit Name	: Furniss-Bo	oquet com	nplex					N	IWI classifi	cation: PEM		
Are climatic / hydrolo	ogic conditio	ons on the	e site ty	pical for this time	e of year?	Yes X	No	)	(If no, exp	lain in Remarks.	)	
Are Vegetation	, Soil	, or Hyd	Irology	significantl	ly disturbed?	Are "Norma	al Circun	nstances'	" present?	Yes X	No	
Are Vegetation	, Soil	, or Hyd	Irology	naturally p	roblematic?	(If needed,	explain	any answ	vers in Ren	narks.)		
SUMMARY OF	FINDING	S – Atta	ich s	ite map show	ing sampli	ng point	locatio	ons, tra	insects.	important fe	atur	es, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: knoll near septic test well						

### VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2		·		Are OBL, FACW, or FAC: <u>2</u> (A)
3		·		Total Number of Dominant Species
4				Across All Strata: <u>2</u> (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1				
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species 35 x 2 = 70
		=Total Cover		FAC species 61 x 3 = 183
Herb Stratum (Plot size: 5' x 5' )				FACU species <u>12</u> x 4 = <u>48</u>
1. Carex nebrascensis	5	No	FACW	UPL species 0 x 5 = 0
2. Iris missouriensis	30	Yes	FACW	Column Totals: 108 (A) 301 (B)
3. Aster laevis	1	No	FACU	Prevalence Index = B/A = 2.79
4. Achillea millefolium	10	No	FACU	
5. Potentilla pulcherrima	1	No	FAC	Hydrophytic Vegetation Indicators:
6. Taraxacum officinale	1	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
7. Fac Grasses	60	Yes	FAC	X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
9.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
10.				data in Remarks or on a separate sheet)
11.				5 - Wetland Non-Vacular Plants <sup>1</sup>
	108	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

Profile Desci	ription: (Describe	to the depth	needed to docu	iment th	ne indica	tor or c	onfirm the absence o	of indicators.)					
Depth	Matrix		Redo	x Featur	res								
(inches)	Color (moist)	% (	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks					
0-4	10YR 3/3	100											
4-10	10YR 3/1	100											
10-16	10YR 4/2	100											
<sup>1</sup> Type: C=Co	ncentration, D=Depl	letion, RM=Re	educed Matrix, C	S=Cove	ered or Co	pated Sa	and Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.					
Hydric Soil I	ndicators: (Applica	ble to all LRF	Rs, unless othe	rwise n	oted.)			s for Problematic Hydric Soils <sup>3</sup> :					
Histosol (	(A1)		Sandy Red	lox (S5)			2 cm	Muck (A10)					
Histic Epi	ipedon (A2)		Stripped M	atrix (S6	5)		Red Parent Material (F21)						
Black His	tic (A3)		Loamy Mu	cky Mine	eral (F1) (	except	ot MLRA 1) Very Shallow Dark Surface (F22)						
Hydroger	n Sulfide (A4)		Loamy Gle	yed Mat	trix (F2)		Other	r (Explain in Remarks)					
Depleted	Below Dark Surface	∍ (A11)	X Depleted M	Aatrix (F	3)								
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)								
Sandy M	ucky Mineral (S1)		Depleted D	ark Sur	face (F7)		<sup>3</sup> Indicators	s of hydrophytic vegetation and					
2.5 cm M	ucky Peat or Peat (	S2) (LRR G)	Redox Dep	ression	s (F8)		wetla	nd hydrology must be present,					
Sandy Gl	eyed Matrix (S4)						unles	s disturbed or problematic.					
Restrictive L	ayer (if observed):												
Туре:			_										
Depth (in	ches):		_				Hydric Soil Present	? Yes X No					
Remarks:													

### HYDROLOGY

Wetland Hydrology Indicato	rs:									
Primary Indicators (minimum	of one is required	; che	ck all the	at apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)			Water-S	Stained Leaves (B9) ( <b>except</b>		Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)			MLR	A 1, 2, 4A, and 4B)		4A, and 4B)				
Saturation (A3)			Salt Cru	ıst (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatic	Invertebrates (B13)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)			Hydroge	en Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3)			Oxidized	d Rhizospheres on Living Ro	Geomorphic Position (D2)					
Algal Mat or Crust (B4)			Presenc	ce of Reduced Iron (C4)	Shallow Aquitard (D3)					
Iron Deposits (B5)			Recent	Iron Reduction in Tilled Soils	(C6)	X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6)			Stunted	or Stressed Plants (D1) (LR	<b>R A</b> )	Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Aeri	al Imagery (B7)		Other (E	Explain in Remarks)		Frost-Heave Hummocks (D7)				
Sparsely Vegetated Conc	ave Surface (B8)									
Field Observations:										
Surface Water Present?	Yes	No	х	Depth (inches):						
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland	I Hydrology Present? Yes No X				
(includes capillary fringe)		-		· · · · <u> </u>						
Describe Recorded Data (stre	am gauge, monite	oring	well, ae	rial photos, previous inspecti	ons), if ava	ilable:				
Remarks:										
no soil moisture within sample	e point									

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz		City/County: Teton						Sampling Date:				
Applicant/Owner:	Brian Fraiz							State:	ID	Samplir	ng Point:	4
Investigator(s): EV	Section,	Section, Township, Range: <u>NE4NE4 SEC 29</u>										
Landform (hillside, te	Local relief (concave, convex, none):						e (%):					
Subregion (LRR):	LRR E, ML	RA 43B	Lat:	43°38'57.48"N		Long:	111° 9'	42.80"W			Datum:	WGS84
Soil Map Unit Name	Furniss-Bo	quet com	plex					N	IWI classi	fication: P	EM	
Are climatic / hydrolo	ogic conditio	ns on the	site ty	pical for this time	of year?	Yes X	No		(If no, exp	plain in Re	marks.)	
Are Vegetation	, Soil	, or Hydr	ology	significantl	y disturbed?	Are "Norma	al Circun	nstances'	' present?	Yes	X No	)
Are Vegetation	, Soil	, or Hydr	ology	naturally p	roblematic?	(If needed,	explain	any answ	ers in Re	marks.)		
		• • • •				• .						

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator		
Tree Stratum     (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	
1				Number of Dominant Species That	
2				Are OBL, FACW, or FAC: 1 (A	)
3				Total Number of Dominant Species	
4				Across All Strata: 1 (B	)
		=Total Cover		Percent of Dominant Species That	
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC: 100.0% (A	/B)
1					
2				Prevalence Index worksheet:	
3.				Total % Cover of: Multiply by:	
4.				OBL species 0 x 1 = 0	
5.				FACW species 100 x 2 = 200	
		=Total Cover		FAC species 0 x 3 = 0	
Herb Stratum (Plot size: 5' x 5')				FACU species 0 x 4 = 0	
1. Carex nebrascensis	100	Yes	FACW	UPL species $0 \times 5 = 0$	
2.				Column Totals: 100 (A) 200 (B	)
3.				Prevalence Index = $B/A = 2.00$	<i>`</i>
4					
4 5.				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
				X 2 - Dominance Test is >50%	
7				X 3 - Prevalence Index is $\leq 3.0^{1}$	
0				4 - Morphological Adaptations <sup>1</sup> (Provide support	ina
10.				data in Remarks or on a separate sheet)	"'9
11.				5 - Wetland Non-Vacular Plants <sup>1</sup>	
···-	100	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:					
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	st
1					_
2		=Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Present? Yes X No	
Remarks:					

SOIL

4

.

Depth	Matrix		Redo	x Featur	es				
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-2	10YR 3/3	100					peat		
2-14	10YR 2/2	100					Loamy/Clayey		
14-18	10YR 4/1	100					Mucky Loam/Clay		
		·							
Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, 0	CS=Cove	red or Co	ated Sa	ind Grains. <sup>2</sup> Loc	ation: PL=Pore	Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless othe	erwise n	oted.)		Indicato	ors for Problema	tic Hydric Soils <sup>3</sup>
Histosol	(A1)		Sandy Re	dox (S5)				n Muck (A10)	
Histic Ep	oipedon (A2)		Stripped N	latrix (S6	5)		Red	Parent Material	(F21)
Black Hi	istic (A3)		Loamy Mu	icky Mine	eral (F1) (	except	MLRA 1) Ven	/ Shallow Dark S	urface (F22)
Hydroge	en Sulfide (A4)		Loamy Gle	eyed Mat	rix (F2)		Othe	er (Explain in Rer	narks)
Depleted	d Below Dark Surface	e (A11)	X Depleted I	Matrix (F	3)				
Thick Da	ark Surface (A12)		Redox Da	rk Surfac	e (F6)				
Sandy M	lucky Mineral (S1)		Depleted I	Dark Surf	face (F7)		<sup>3</sup> Indicato	ors of hydrophytic	vegetation and
	Mucky Peat or Peat (	S2) (LRR G	`		• • •			and hydrology m	•
	Bleyed Matrix (S4)				. /			ss disturbed or p	•
Restrictive	Layer (if observed):								
Type:									
Depth (i	nches):						Hydric Soil Preser	nt?	Yes <u>X</u> No
Remarks:									

Wetland Hydrology Indicat	ors:								
Primary Indicators (minimum of one is required; check all that apply)						Se	Secondary Indicators (2 or more required)		
Surface Water (A1)			٧	Nater	-Stained Leaves (B9) ( <b>except</b>		Water-Stained Leaves (B9) (MLRA 1, 2		
High Water Table (A2)				ML	RA 1, 2, 4A, and 4B)		4A, and 4B)		
X Saturation (A3)			S	Salt C	rust (B11)		Drainage Patterns (B10)		
Water Marks (B1)			A	Aquati	ic Invertebrates (B13)		Dry-Season Water Table (C2)		
Sediment Deposits (B2)			۰	Hydro	gen Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)				Dxidiz	ed Rhizospheres on Living Ro	ots (C3)	Geomorphic Position (D2)		
Algal Mat or Crust (B4)		—	F	Prese	nce of Reduced Iron (C4)		Shallow Aquitard (D3)		
Iron Deposits (B5)			F	Recer	t Iron Reduction in Tilled Soils	(C6)	FAC-Neutral Test (D5)		
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A)					R A)	Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Aerial Imagery (B7)			Other (Explain in Remarks)			Frost-Heave Hummocks (D7)			
Sparsely Vegetated Cor	icave Sur	face (B8)							
Field Observations:									
Surface Water Present?	Yes	1	No	Х	Depth (inches):				
Water Table Present?	Yes	1	No	Х	Depth (inches):				
Saturation Present?	Yes	1 X	No		Depth (inches): 14	Wetland H	and Hydrology Present? Yes X No		
(includes capillary fringe)									
Describe Recorded Data (str	ream gau	ge, monitor	ing v	vell, a	aerial photos, previous inspecti	ons), if availat	ble:		
Remarks:									

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz					City/Co	ounty: Teto	'n			Sampling D	ate:	8/4/22
Applicant/Owner:	Brian Fraiz	2						State:	ID	Sampling P	oint:	5
Investigator(s): EV					Section	, Township,	Range:	NE4NE4	4 SEC 29	T4N R45E		
Landform (hillside, te	errace, etc.):				Local relief	(concave, c	onvex, no	one):			Slop	e (%):
Subregion (LRR):	LRR E, ML	RA 43B	Lat:	43°38'53.59"N		Long:	111° 9'	42.26"W		Dat	um:	WGS84
Soil Map Unit Name:	Furniss-Bo	quet com	olex					N	WI classif	fication: PEM		
Are climatic / hydrolo	ogic conditio	ns on the	site ty	pical for this time	e of year?	Yes X	No		(If no, exp	olain in Remar	ks.)	
Are Vegetation	, Soil	, or Hydr	ology	significantl	ly disturbed?	Are "Norm	al Circun	nstances"	present?	Yes X	No	
Are Vegetation	, Soil	, or Hydr	ology	naturally p	roblematic?	(If needed	, explain	any answ	ers in Rer	marks.)		
						<b>.</b> .						

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:					

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata: 1 (B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC: 100.0% (A/
1				
2				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5.				FACW species 3 x 2 = 6
		=Total Cover		FAC species 85 x 3 = 255
Herb Stratum (Plot size: 5' x 5')				FACU species 10 x 4 = 40
1. Carex nebrascensis	3	No	FACW	UPL species $0 \times 5 = 0$
2. Achillea millefolium	5	No	FACU	Column Totals: 98 (A) 301 (B)
3. Aster laevis	5	No	FACU	Prevalence Index = B/A = 3.07
4. Taraxacum	10	No	FAC	
5. Fac Grasses	75	Yes	FAC	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
0				4 - Morphological Adaptations <sup>1</sup> (Provide supportin
10.				data in Remarks or on a separate sheet)
11.				5 - Wetland Non-Vacular Plants <sup>1</sup>
	98	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and wetland hydrology mus
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes No X
Remarks:				

SOIL

	cription: (Describe to t	the depth				tor or c	onfirm the	absence of ir	ndicators.)
Depth	Matrix			x Feature	4	· 2	_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex		Remarks
0-6	10YR 2/1	100					Loamy/	/Clayey	
6-9	10YR 3/1	100					Loamy/	/Clayey	
9-12	10YR 5/1	100					Mucky Lo	oam/Clay	
				·					
	Concentration, D=Depletion					bated Sa	and Grains.		n: PL=Pore Lining, M=Matrix.
•	Indicators: (Applicable	≱ to all LRF							or Problematic Hydric Soils <sup>3</sup> :
Histosol			Sandy Red						ick (A10)
	pipedon (A2)		Stripped Ma	`	,				ent Material (F21)
	listic (A3)		Loamy Muc	-		except	MLRA 1)		allow Dark Surface (F22)
	en Sulfide (A4)		Loamy Gle	-				Other (E	xplain in Remarks)
	ed Below Dark Surface (A	411)	X Depleted M		-				
	ark Surface (A12)		Redox Dark		. ,			a	
	Mucky Mineral (S1)		Depleted D		. ,				f hydrophytic vegetation and
	Mucky Peat or Peat (S2)	) <b>(LRR G)</b>	Redox Dep	ressions	s (F8)				hydrology must be present,
Sandy G	Gleyed Matrix (S4)							unless d	listurbed or problematic.
Restrictive	Layer (if observed):			_					
Type:			_						
Depth (ii	nches):		_				Hydric So	oil Present?	Yes X No
Remarks:									
soil structure	e granular								
HYDROLO	DGY								
Wetland Hy									
-	vdrology Indicators:	is required	: check all that a	(ylaa				Secondary Ir	idicators (2 or more required)
Primary India		is required			ves (B9)	(except		-	ndicators (2 or more required) tained Leaves (B9) ( <b>MLRA 1, 2</b>
Primary India	vdrology Indicators: icators (minimum of one	is required	Water-Stair	ned Lea	aves (B9) , <b>and 4B</b> )	•	t	Water-St	ndicators (2 or more required) tained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B</b> )

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one is require	Secondary Indicators (2 or more required)				
Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	<b>4A, and 4B</b> )			
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)			
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Oxidized Rhizospheres on Living Roo	ts (C3) Geomorphic Position (D2)			
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)			
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils	C6) FAC-Neutral Test (D5)			
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRI	R A) Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Aerial Imagery (B7	7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)			
Sparsely Vegetated Concave Surface (E	38)				
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes No X			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspection	ons), if available:			
Remarks:					

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz				City/County:	Teton			Sampling Date:	8/4/22
Applicant/Owner:	Brian Fraiz					State:	ID	Sampling Point:	6
Investigator(s): EV				Section, Towns	hip, Range	E NE4NE	4 SEC 29	9 T4N R45E	
Landform (hillside, te	errace, etc.):			Local relief (concav	e, convex,	none):		Slo	pe (%):
Subregion (LRR):	LRR E, MLRA 43	B Lat:	43°38'53.22"N	L	ong: <u>111°</u>	9'55.38"W		Datum:	WGS84
Soil Map Unit Name	Furniss-Boquet c	omplex				<u> </u>	WI class	ification: PEM	
Are climatic / hydrolo	ogic conditions on	he site t	ypical for this time	e of year? Yes	1 <u>X</u>	No	(If no, ex	plain in Remarks.)	
Are Vegetation	_, Soil, or ⊦	ydrology	/significant	ly disturbed? Are "N	ormal Circ	umstances	" present	? Yes <u>X</u> N	0
Are Vegetation	_, Soil, or ⊦	ydrology	/naturally p	roblematic? (If nee	ded, explai	n any ansv	vers in Re	emarks.)	
					• • • •	•			

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

ent? Yes No X
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### **VEGETATION – Use scientific names of plants.**

Tree Stratum       (Plot size:)       % Cover       Species?       Status       Dominance Test worksheet:         1.		Absolute	Dominant	Indicator	
2.	/	% Cover	Species?	Status	Dominance Test worksheet:
3.					· · · · · · · · · · · · · · · · · · ·
4.	2				Are OBL, FACW, or FAC: <u>2</u> (A)
Sapling/Shrub Stratum       (Plot size:)         1.	3				Total Number of Dominant Species
Sapling/Shrub Stratum       (Plot size:	4				Across All Strata: 2 (B)
1.			=Total Cover		Percent of Dominant Species That
2.	Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC:(A/E
3.	1				
4.	2				
5.	3				
Herb Stratum       (Plot size:5'x.5')         1. Carex nebrascensis       5       No       FACW         2. Aster laevis       5       No       FACU         3. Carduus nutans       1       No       UPL         4. Taraxacum officinale       5       No       FACW         5. Cirsium arvense       10       No       UPL         6. Juncus balticus       15       Yes       FACU         7. Fac grasses       40       Yes       FACU         8. Achillea millefolium       5       No       FACU         9.       9.       -       -       -         10.       Sectratum       -       -       -         10.       No       FAC       -       -         7. Fac grasses       40       Yes       FAC       -       -         9.       -       -       -       -       -       -       -         10.       - <td>4</td> <td></td> <td></td> <td></td> <td>OBL species 0 x 1 = 0</td>	4				OBL species 0 x 1 = 0
Herb Stratum       (Plot size:       5'x 5'       )         1.       Carex nebrascensis       5       No       FACW       FACU       UPL species       1       x 5 =       5         2.       Aster laevis       5       No       FACU       UPL species       1       x 5 =       5         2.       Aster laevis       5       No       FACU       UPL species       1       x 5 =       5         2.       Aster laevis       5       No       FACU       UPL species       1       x 5 =       5         3.       Carduus nutans       1       No       UPL       Prevalence Index = B/A =       2.91         4.       Taraxacum officinale       5       No       FAC       Hydrophytic Vegetation Indicators:         6.       Juncus balticus       15       Yes       FAC       X 2 - Dominance Test is >50%         8.       Achillea millefolium       5       No       FACU       3 - Prevalence Index is ≤3.01         9.	5				FACW species 20 x 2 = 40
1. Carex nebrascensis       5       No       FACW       UPL species       1       x 5 =       5         2. Aster laevis       5       No       FACU       Column Totals:       86       (A)       250       (B)         3. Carduus nutans       1       No       UPL       Prevalence Index = B/A =       2.91         4. Taraxacum officinale       5       No       FAC       Hydrophytic Vegetation Indicators:         6. Juncus balticus       15       Yes       FACW       1 - Rapid Test for Hydrophytic Vegetation         7. Fac grasses       40       Yes       FAC       X 2 - Dominance Test is >50%         8. Achillea millefolium       5       No       FACU       3 - Prevalence Index is \$3.0^1         9.       4       -			=Total Cover		FAC species 55 x 3 = 165
2.       Aster laevis       5       No       FACU       Column Totals:       86       (A)       250       (B)         3.       Carduus nutans       1       No       UPL       Prevalence Index = B/A =       2.91         4.       Taraxacum officinale       5       No       FAC       Prevalence Index = B/A =       2.91         5.       Cirsium arvense       10       No       FAC       Hydrophytic Vegetation Indicators:         6.       Juncus balticus       15       Yes       FAC       X       2 - Dominance Test is >50%         8.       Achillea millefolium       5       No       FACU       3 - Prevalence Index is <3.0 <sup>1</sup> 9.	Herb Stratum (Plot size: 5' x 5' )				FACU species 10 x 4 = 40
3. Carduus nutans       1       No       UPL       Prevalence Index = B/A =(r, y(r, y(	1. Carex nebrascensis	5	No	FACW	UPL species 1 x 5 = 5
4.       Taraxacum officinale       5       No       FAC         5.       Cirsium arvense       10       No       FAC         6.       Juncus balticus       15       Yes       FACW         7.       Fac grasses       40       Yes       FAC         8.       Achillea millefolium       5       No       FAC         9.	2. Aster laevis	5	No	FACU	Column Totals: 86 (A) 250 (B)
5.       Cirsium arvense       10       No       FAC       Hydrophytic Vegetation Indicators:         6.       Juncus balticus       15       Yes       FACW       1 - Rapid Test for Hydrophytic Vegetation         7.       Fac grasses       40       Yes       FAC       X 2 - Dominance Test is >50%         8.       Achillea millefolium       5       No       FACU       3 - Prevalence Index is ≤3.01         9.	3. Carduus nutans	1	No	UPL	Prevalence Index = B/A = 2.91
6.       Juncus balticus       15       Yes       FACW       1 - Rapid Test for Hydrophytic Vegetation         7.       Fac grasses       40       Yes       FAC       X 2 - Dominance Test is >50%         8.       Achillea millefolium       5       No       FACU       3 - Prevalence Index is ≤3.0 <sup>1</sup> 9.	4. Taraxacum officinale	5	No	FAC	
7.       Fac grasses       40       Yes       FAC       X 2 - Dominance Test is >50%         8.       Achillea millefolium       5       No       FACU       3 - Prevalence Index is ≤3.01         9.	5. Cirsium arvense	10	No	FAC	Hydrophytic Vegetation Indicators:
8.       Achillea millefolium       5       No       FACU       3 - Prevalence Index is ≤3.0 <sup>1</sup> 9.	6. Juncus balticus	15	Yes	FACW	1 - Rapid Test for Hydrophytic Vegetation
9.	7. Fac grasses	40	Yes	FAC	X 2 - Dominance Test is >50%
10.	8. Achillea millefolium	5	No	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
11.	9.				4 - Morphological Adaptations <sup>1</sup> (Provide supportin
11.	10.				data in Remarks or on a separate sheet)
Woody Vine Stratum       (Plot size:)         1.					5 - Wetland Non-Vacular Plants <sup>1</sup>
1.     be present, unless disturbed or problematic.       2.		86	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1.     be present, unless disturbed or problematic.       2.	Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.					, , , , , ,
Bare Ground in Herb Stratum    =Total Cover     Vegetation       Present?     Yes X     No	2.				Hydrophytic
% Bare Ground in Herb Stratum         Present?         Yes_X         No			=Total Cover		
Remarks:	% Bare Ground in Herb Stratum				
	Remarks:				•

SOIL

Profile Desc	ription: (Describe Matrix	to the depth		u <b>ment tl</b> x Featur		tor or c	confirm the absence of indicators.)				
(inches)	Color (moist)	%	Color (moist)	x reatur %	Type <sup>1</sup>	Loc <sup>2</sup>	 Texture Remarks				
0-2	10YR 3/2	100		70	1990		Texture				
2-12	10YR 2/1	100									
12-16	10YR 3/1	100									
	ncentration, D=Dep	letion RM-R	Peduced Matrix (	-Cove	ared or C		Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.				
-	ndicators: (Applica					Jaleu O	Indicators for Problematic Hydric Soils <sup>3</sup> :				
Histosol	•••		Sandy Red				2 cm Muck (A10)				
	ipedon (A2)		Stripped N	• • •			Red Parent Material (F21)				
Black His				•	,	(except	t MLRA 1) Very Shallow Dark Surface (F22)				
Hydroger	n Sulfide (A4)			Loamy Gleyed Matrix (F2) Other (Explain in Ren							
Depleted	Below Dark Surface	e (A11)		X Depleted Matrix (F3)							
Thick Da	rk Surface (A12)		Redox Dar	k Surfac	ce (F6)						
Sandy M	ucky Mineral (S1)		Depleted [	Dark Sur	face (F7)		<sup>3</sup> Indicators of hydrophytic vegetation and				
2.5 cm M	lucky Peat or Peat (	S2) (LRR G)	Redox Dep	pression	s (F8)		wetland hydrology must be present,				
Sandy G	eyed Matrix (S4)						unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Present? Yes X No				
Remarks:											

## HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n of one is required		Secondary Indicators (2 or more required)							
Surface Water (A1)		Water-Stained Leaves (B9) (except				Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)		MLRA 1, 2, 4A, and 4B)				4A, and 4B)				
Saturation (A3)			Salt Cr	rust (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatio	c Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydrog	en Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Oxidized Rhizospheres on Living Roots (C3)				Geomorphic Position (D2)				
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)				Shallow Aquitard (D3)				
Iron Deposits (B5)			Recent	t Iron Reduction in Tilled Soils	s (C6)	X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6	)		Stunte	d or Stressed Plants (D1) ( <b>LR</b>	( <b>R A</b> )	Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Remarks)				Frost-Heave Hummocks (D7)				
Sparsely Vegetated Cor	ncave Surface (B8)					—				
Field Observations:										
Surface Water Present?	Yes	No	х	Depth (inches):						
Water Table Present?	Yes	No X Depth (inches):								
Saturation Present?	Yes				Wetland	nd Hydrology Present? Yes No X				
(includes capillary fringe)		•								
Describe Recorded Data (st	ream gauge, monit	oring	well, a	erial photos, previous inspecti	ions), if ava	ilable:				
Remarks:										

#### WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Fraiz	City/County:	Teton	Sampling Date:	8/4/22					
Applicant/Owner:	Brian Fraiz				State:	ID	Sampling Point:	7	
Investigator(s): EV	Section, Township, Range: NE4N			IE4 SEC 29 T4N R45E					
Landform (hillside, te	Local relief (concav	Local relief (concave, convex, none):				Slope (%):			
Subregion (LRR):	ubregion (LRR): LRR E, MLRA 43B Lat: 43°38'53.22"N Long: 111°							Datum:	WGS84
Soil Map Unit Name	Furniss-Boquet co	omplex				<u> </u>	WI class	ification: PEM	
Are climatic / hydrolo	ogic conditions on t	he site t	ypical for this time	e of year? Yes	Х	No	(If no, ex	plain in Remarks.)	
Are Vegetation	, Soil, or H	ydrology	/significant	ly disturbed? Are "N	ormal Ci	cumstances	" present?	? Yes <u>X</u> N	0
Are Vegetation	, Soil, or H	ydrology	/naturally p	roblematic? (If nee	ded, expl	ain any ansv	vers in Re	emarks.)	
								• • • •	

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X	No No No	Is the Sampled Area within a Wetland?	Yes	NoX
Remarks:						

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata:1_(B)
		=Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC:(A/B)
1				
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4				OBL species 0 x 1 = 0
5				FACW species 1 x 2 = 2
		=Total Cover		FAC species 105 x 3 = 315
Herb Stratum (Plot size: 5' x 5' )				FACU species 0 x 4 = 0
1. Carex nebrascensis	1	No	FACW	UPL species 0 x 5 = 0
2. Agrostis stolonifera	5	No	FAC	Column Totals: 106 (A) 317 (B)
3. Potentilla pulcherrima	5	No	FAC	Prevalence Index = B/A = 2.99
4. Phleum pratense	85	Yes	FAC	
5. Cirsium arvense	10	No	FAC	Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
9.				<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting</li> </ul>
10.				data in Remarks or on a separate sheet)
11.				5 - Wetland Non-Vacular Plants <sup>1</sup>
	106	=Total Cover		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		=Total Cover		Vegetation
% Bare Ground in Herb Stratum				Present? Yes X No
Remarks:				

Profile Desc	ription: (Describe	to the dept	h needed to docu	ument th	ne indica	tor or co	onfirm the absence of	of indicators.)			
Depth	Matrix	Redo	x Featur	es							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	F			
0-4	10YR 2/2	100									
4-8	10YR 2/1	100									
8-16	10YR 5/1	100									
				_							
				_							
	oncentration, D=Dep					pated Sa		ation: PL=Pore I	-		
-	Indicators: (Applica	ble to all L			-			rs for Problema	tic Hydric	Soils':	
Histosol			Sandy Red	• • •				Muck (A10)			
<u> </u>	oipedon (A2)		Stripped N	``	,		Red Parent Material (F21)				
Black His	stic (A3)		Loamy Mu	cky Mine	eral (F1)	(except					
Hydroge	n Sulfide (A4)		Loamy Gle	eyed Mat	trix (F2)		Othe	r (Explain in Ren	narks)		
Depleted	Below Dark Surface	e (A11)	X Depleted M	/latrix (F							
Thick Da	ark Surface (A12)		Redox Dar	k Surfac	ce (F6)						
Sandy M	lucky Mineral (S1)		Depleted [	Dark Sur	face (F7)		<sup>3</sup> Indicators of hydrophytic vegetation and				
2.5 cm N	/lucky Peat or Peat (	S2) (LRR G	) Redox Dep	pression	s (F8)		wetla	ind hydrology mi	ist be pres	sent,	
Sandy G	leyed Matrix (S4)						unles	s disturbed or p	oblematio		
Restrictive L	Layer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soil Present	t? )	′es <u>X</u>	No	
Remarks:											

#### HYDROLOGY

Wetland Hydrology Indicat	ors:									
Primary Indicators (minimun	n of one is required		Secondary Indicators (2 or more required)							
Surface Water (A1)		Water-Stained Leaves (B9) (except				Water-Stained Leaves (B9) (MLRA 1, 2				
High Water Table (A2)		MLRA 1, 2, 4A, and 4B)				4A, and 4B)				
Saturation (A3)			Salt Cr	rust (B11)		Drainage Patterns (B10)				
Water Marks (B1)			Aquatio	c Invertebrates (B13)		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			Hydrog	en Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Oxidized Rhizospheres on Living Roots (C3)				Geomorphic Position (D2)				
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)				Shallow Aquitard (D3)				
Iron Deposits (B5)			Recent	t Iron Reduction in Tilled Soils	s (C6)	X FAC-Neutral Test (D5)				
Surface Soil Cracks (B6	)		Stunte	d or Stressed Plants (D1) ( <b>LR</b>	( <b>R A</b> )	Raised Ant Mounds (D6) (LRR A)				
Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Remarks)				Frost-Heave Hummocks (D7)				
Sparsely Vegetated Cor	ncave Surface (B8)					—				
Field Observations:										
Surface Water Present?	Yes	No	х	Depth (inches):						
Water Table Present?	Yes	No X Depth (inches):								
Saturation Present?	Yes				Wetland	nd Hydrology Present? Yes No X				
(includes capillary fringe)		•								
Describe Recorded Data (st	ream gauge, monit	oring	well, a	erial photos, previous inspecti	ions), if ava	ilable:				
Remarks:										