

NOVEMBER 25, 2024

DARBY MEADOW RANCH

AQUATIC RESOURCE INVENTORY

PREPARED BY:

Intermountain Aquatics, Inc.
116 Mustang Dr.
Driggs, ID 83422

PREPARED FOR:

John Edward Martin
PO Box 10846
Jackson, WY 83002



EXECUTIVE SUMMARY

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.

Aquatic resources identified included 77.3 acres of wetland, 0.72 acres of stream, and 0.27 acres of ditch within the 80 acre area of interest (AOI). Hydrologic influences within the AOI include high groundwater and surface water in streams and ditches.

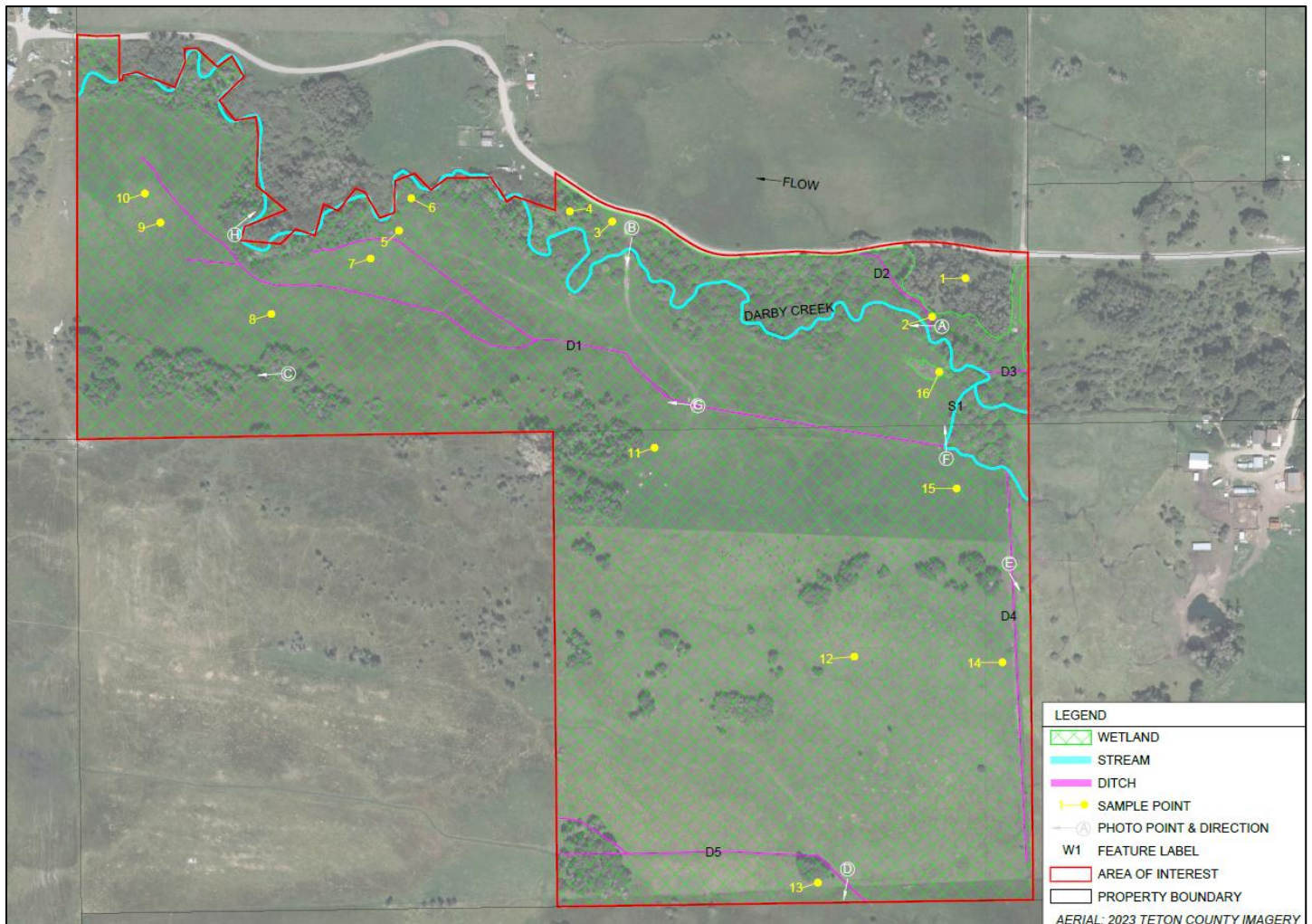


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1. INTRODUCTION

Intermountain Aquatics (IMA) visited the site on October 31 and November 8, 2024, to investigate the presence and extent of aquatic resources throughout the AOI for site planning and permitting. The AOI totals 80 acres and includes all areas that may be impacted during development activities proposed for this site.

This report facilitates efforts to:

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

2. CONTACT INFORMATION

Owner:

John Edward Martin
PO Box 10846
Jackson, WY 83002

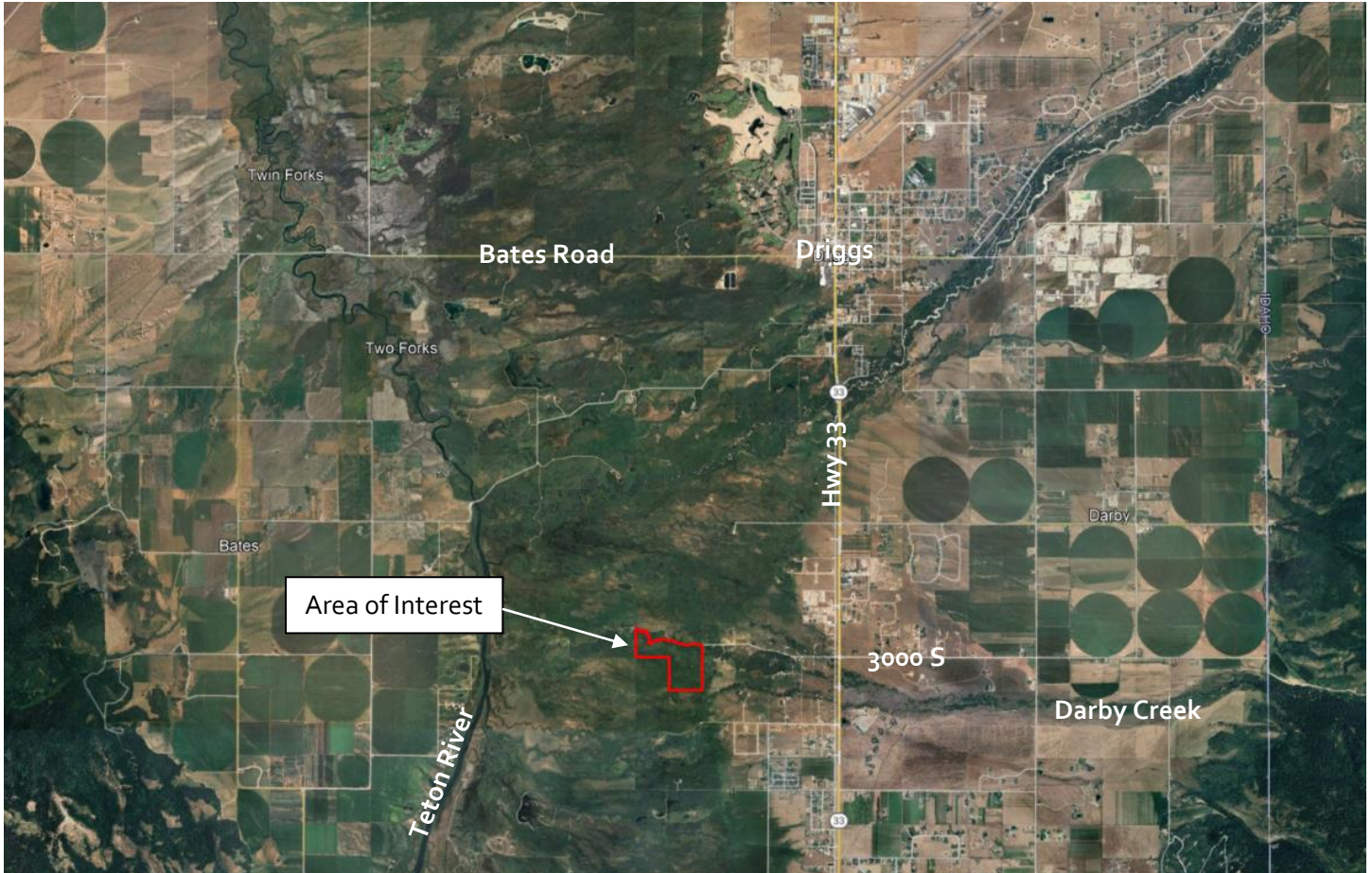
Agent:

Katie Salsbury
Intermountain Aquatics, Inc.
116 Mustang Dr. / PO Box 1115
Driggs, ID 83422

3. LOCATION

The project is located southwest of Driggs, Idaho (Figure 1) at Latitude 43.679276° Longitude -111.134157°, on 3000 South, along Darby Creek in Section 10 & 15, Township 4N, Range 45E.

Figure 1. Darby Meadow Ranch - Vicinity Map



4. METHODS

Various data sources were reviewed to gather preliminary information on land use history, vegetation, soils, and hydrologic characteristics of the site. This data was reviewed to become familiar with the site and to assist in the determination of wetlands. The following data sources were reviewed and are included below:

- ❑ USGS 7.5 minute series topographic map (Figure 2)
- ❑ Current and historic aerial photographs (Google Earth) (Figure 3 - Figure 7)
- ❑ NWI Wetland Mapper (Figure 8)
- ❑ USACOE Antecedent Precipitation Tool (Figure 9)
- ❑ USDA NRCS Soil Survey for Teton Area, Idaho and Wyoming (Figure 10 - Figure 12)
- ❑ IDWR Water Right Locator search (Figure 13)

Wetlands were delineated according to the 1987 manual, 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. The ordinary high water mark (OHWM) was delineated in the field using physical and biological indicators including topographic breaks in slope, changes in sediment characteristics, and changes in vegetation.

Test pits were located in the driest locations in the AOI, and wetland determinations were made at each test pit. Field data at each test pit was recorded on data sheets copied from the 2010 Western Mountains, Valleys & Coast supplement. Wetlands, streams, and ditches were GPS'd with a Bad Elf GPS unit with sub-meter accuracy and sketched on aerial imagery.

Wetlands were delineated from a change in vegetation, which corresponded with a change in soils. Wetlands were dominated by FAC grasses and sedges, whereas uplands had FACU/UPL grasses and no hydric soil indicators. Unlike drier sites in Teton Valley, the majority of aspen forests had FAC or wetter specified in the understory and hydric soils.

Figure 2. Darby Meadow Ranch - USGS Topo of Area of Interest

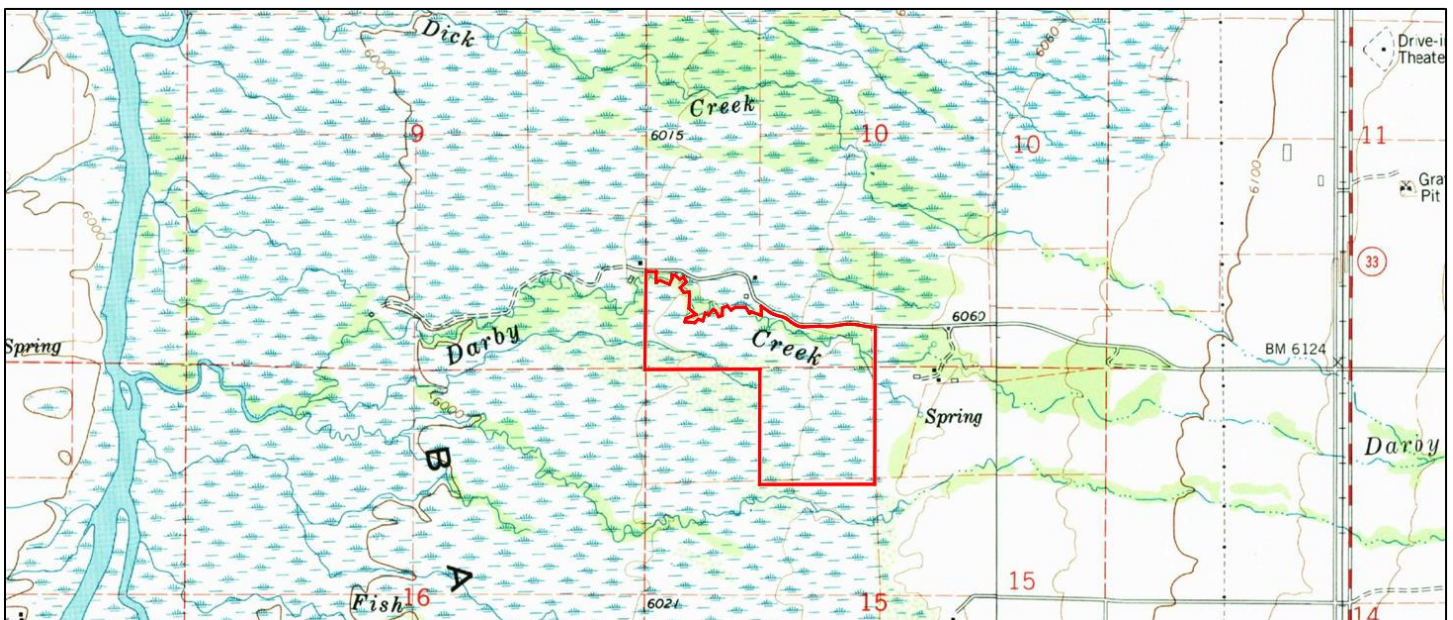


Figure 3. Darby Meadow Ranch - Google Earth Image of Area of Interest – 7/23/2024

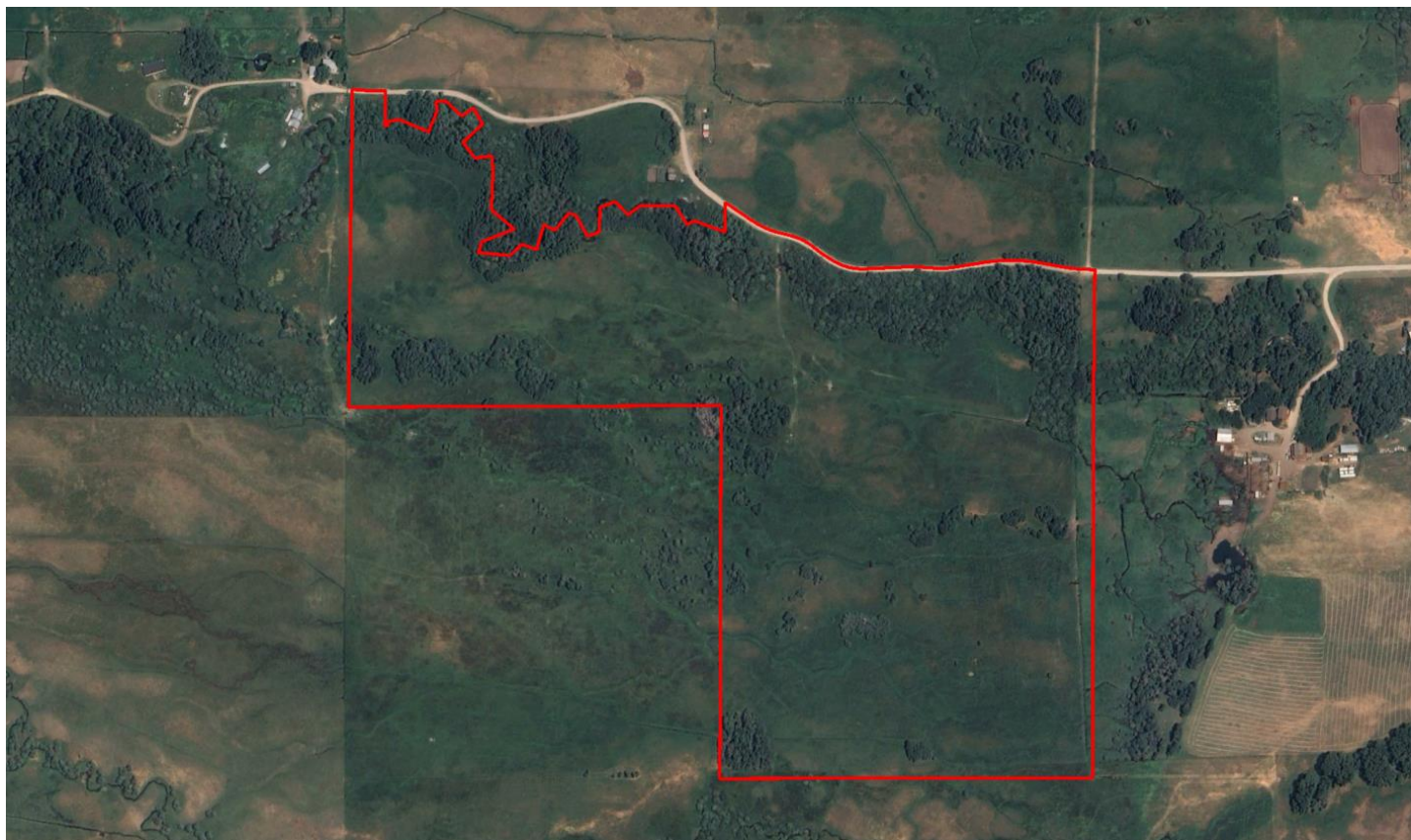


Figure 4. Darby Meadow Ranch - Google Earth Image of Area of Interest – 10/12/2022



Figure 5. Darby Meadow Ranch - Google Earth Image of Area of Interest – 6/21/2017

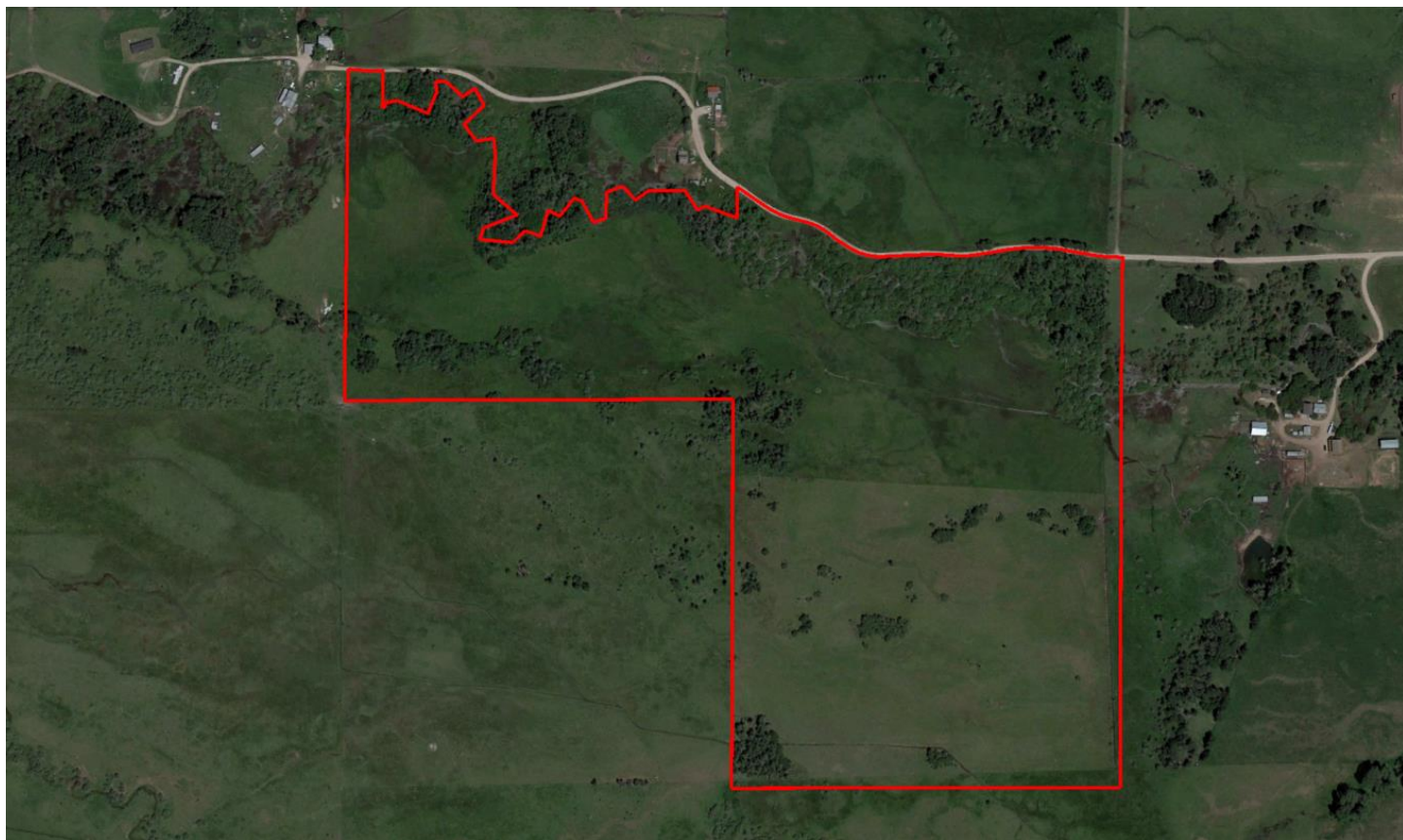


Figure 6. Darby Meadow Ranch – Teton County GIS – 2023 Aerial Imagery

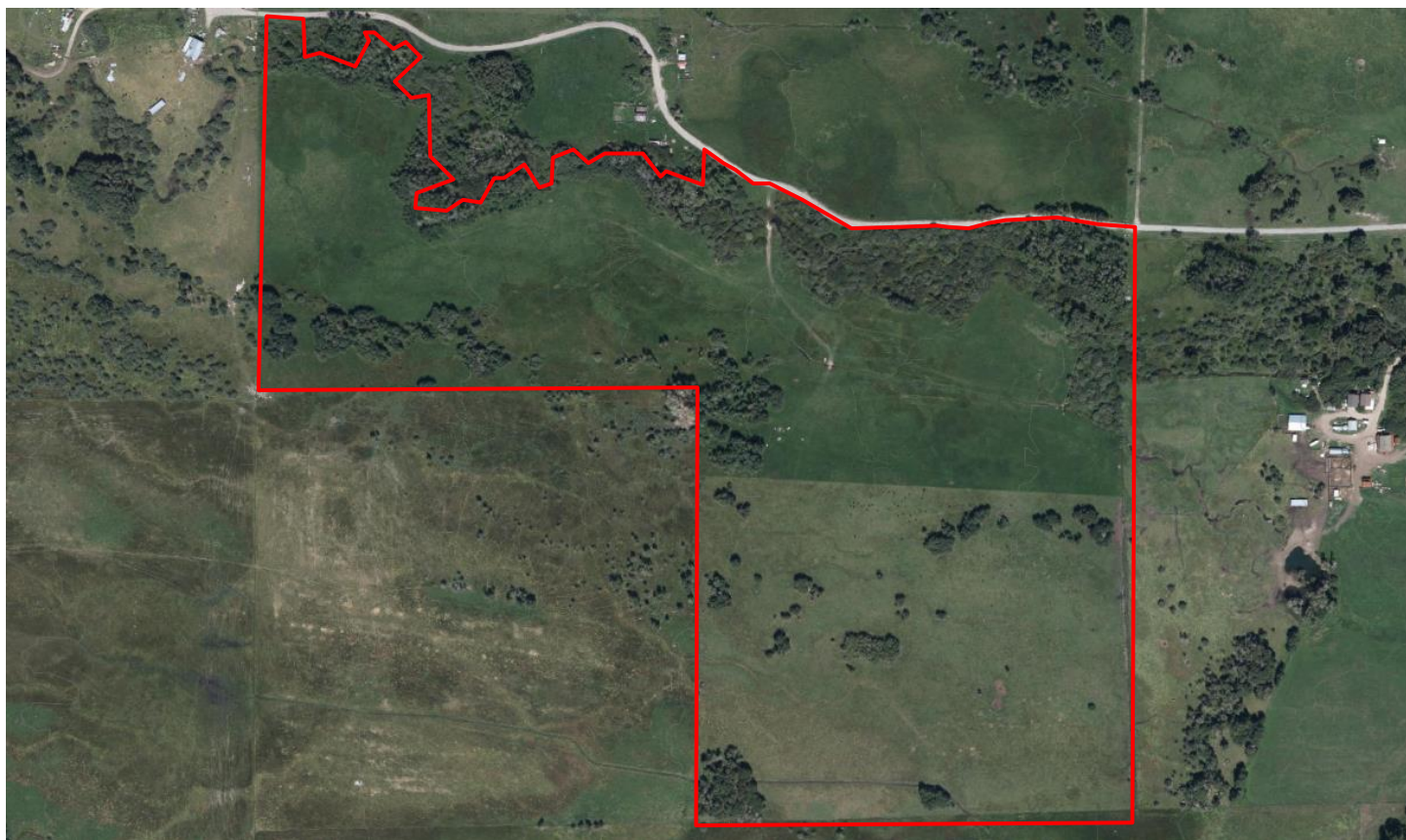


Figure 7. Darby Meadow Ranch – Teton County GIS – 2019 Aerial Imagery

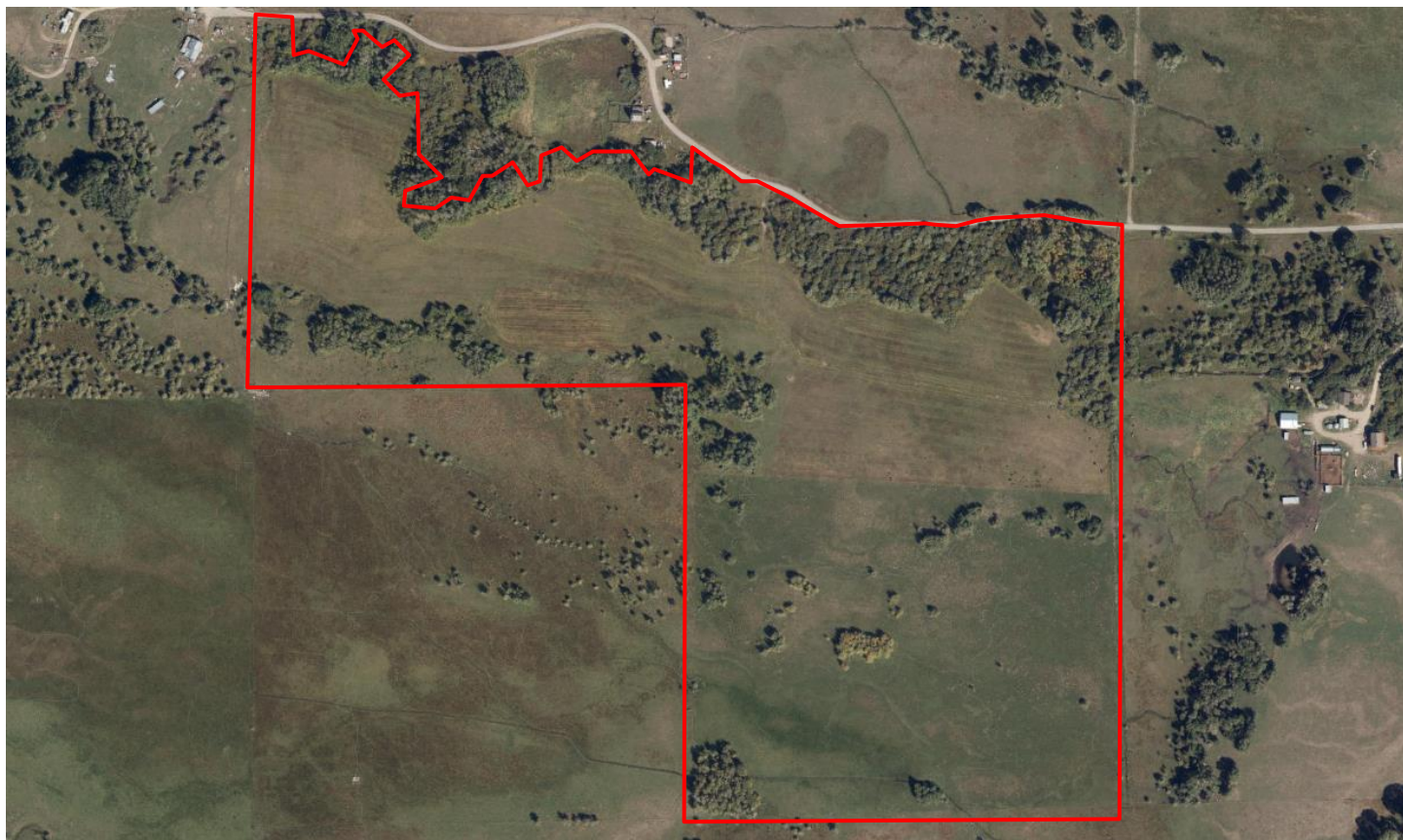


Figure 8. Darby Meadow Ranch - NWI Map of Area of Interest



Figure 9. Darby Meadow Ranch - USACOE Antecedent Precipitation Tool

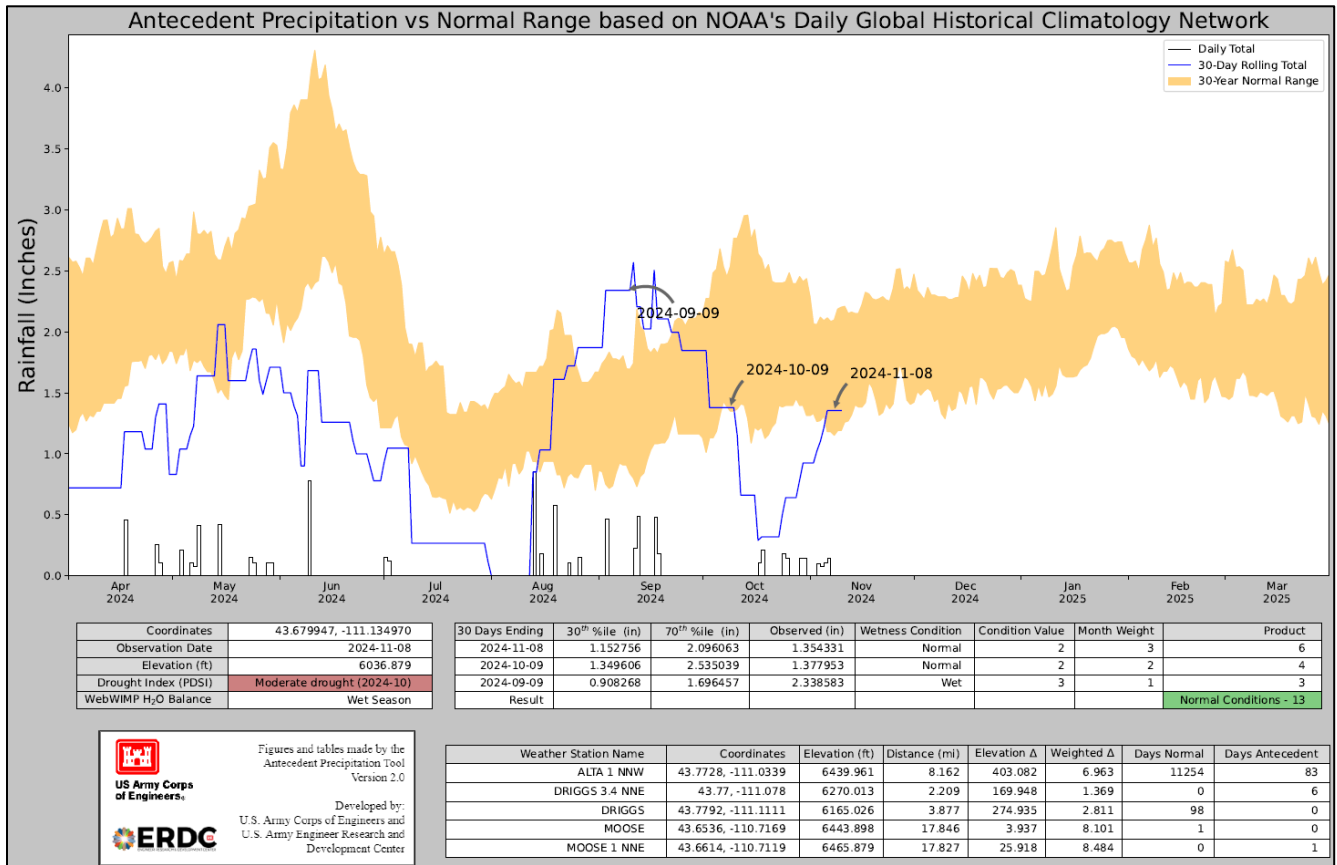


Figure 10. Darby Meadow Ranch - USDA Soil Survey – Hydric Soils Rating Map of Area of Interest

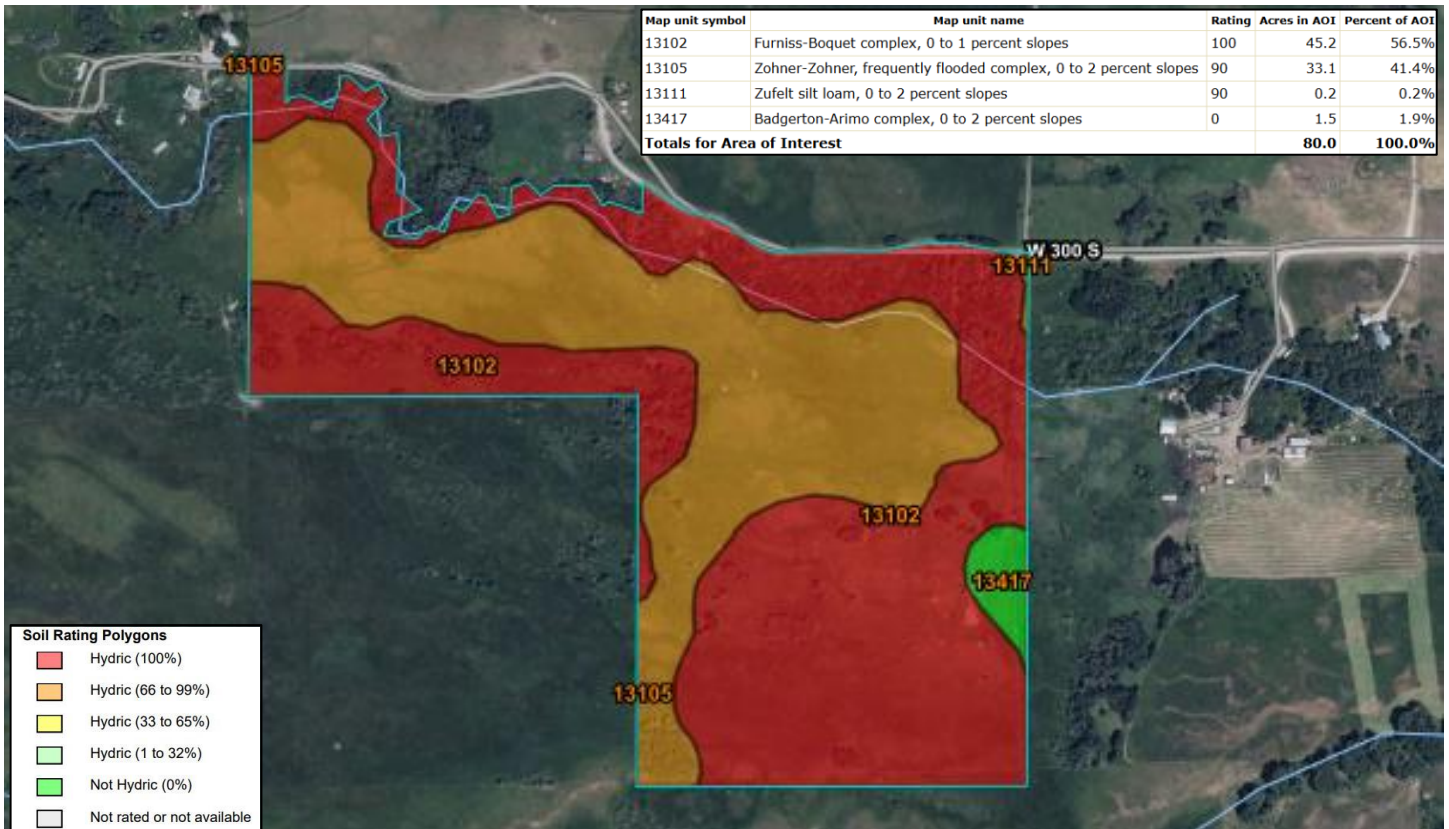


Figure 11. Darby Meadow Ranch - USDA Soil Survey – Depth to Water Table Map of Area of Interest

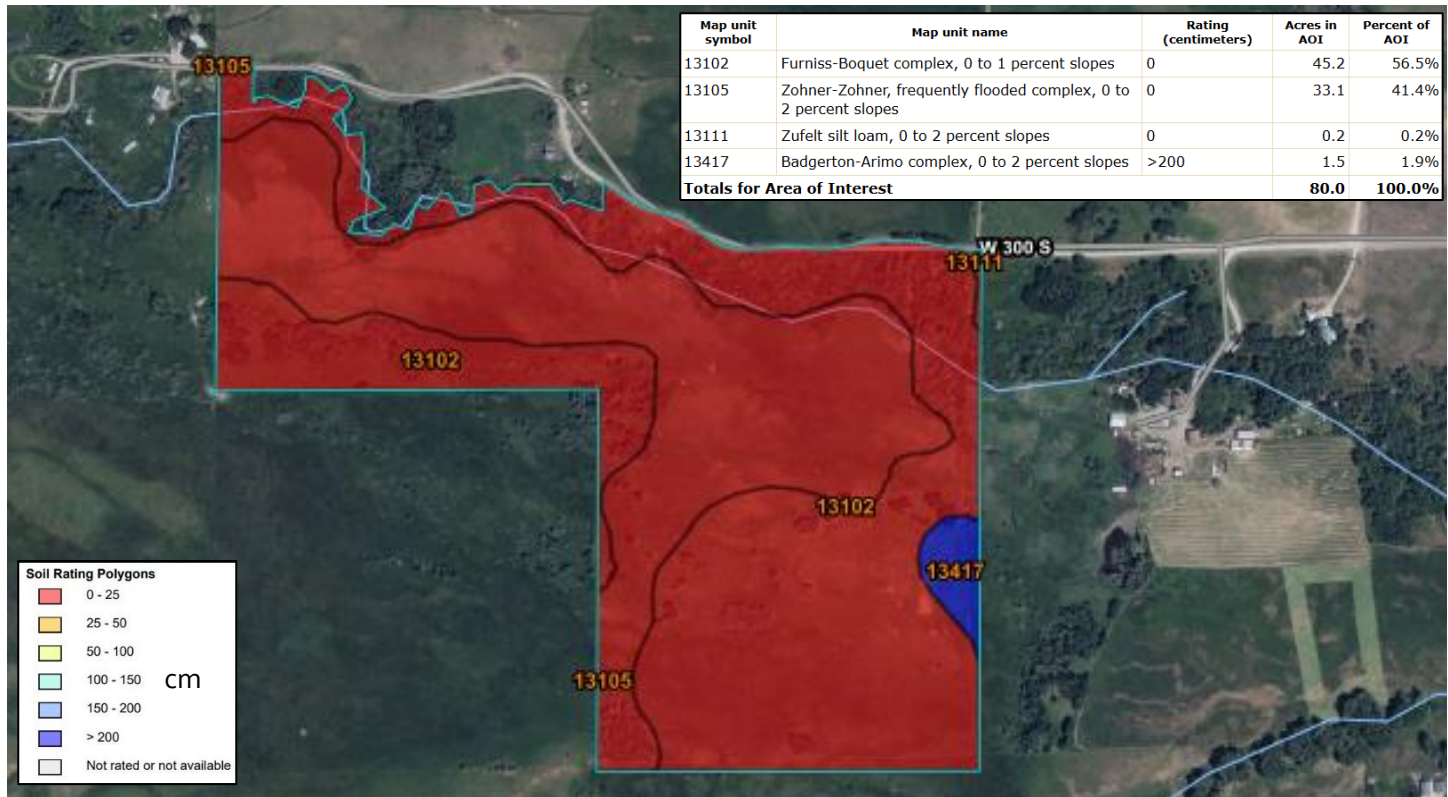


Figure 12. Darby Meadow Ranch - Soil Type Characteristics of Dominant Soils in Area of Interest

13102—Furniss-Boquet complex, 0 to 1 percent slopes**Map Unit Setting**

National map unit symbol: 1qmkj

Elevation: 5,930 to 6,190 feet

Mean annual precipitation: 16 to 18 inches

Mean annual air temperature: 38 to 44 degrees F

Frost-free period: 20 to 50 days

Farmland classification: Not prime farmland

Map Unit Composition

Furniss, frequently flooded, and similar soils: 65 percent

Boquet, frequently flooded, and similar soils: 25 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Furniss, Frequently Flooded Setting

Landform: Flats, drainageways, flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Mixed alluvium

Typical profile

Oe - 0 to 2 inches: mucky peat

A1 - 2 to 8 inches: silty clay loam

A2 - 8 to 13 inches: silty clay loam

Cg1 - 13 to 18 inches: silty clay loam

Cg2 - 18 to 28 inches: silty clay loam

Cg3 - 28 to 32 inches: silty clay loam

2Cg4 - 32 to 37 inches: fine sandy loam

3Cg5 - 37 to 43 inches: very gravelly coarse sandy loam

3Cg6 - 43 to 60 inches: very gravelly sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 1.98 in/hr)

Depth to water table: About 0 to 10 inches

Frequency of flooding: Frequent

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches:

Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): 6c

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C/D Ecological site: R013XY038ID - Meadow DECA18-CANE2

Hydric soil rating: Yes

Description of Boquet, Frequently Flooded

Setting

Landform: Drainageways, flood plains, marshes

Down-slope shape: Linear

Across-slope shape: Concave

Parent material: Herbaceous organic material over mixed alluvium

Typical profile

Oe - 0 to 8 inches: moderately decomposed plant material

A1 - 8 to 14 inches: mucky silty clay loam

A2 - 14 to 22 inches: clay

Bg1 - 22 to 26 inches: silty clay loam

2Bg2 - 26 to 43 inches: gravelly loam

2BCg - 43 to 60 inches: very gravelly sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: About 0 to 10 inches

Frequency of flooding: Frequent

Frequency of ponding: None

Calcium carbonate, maximum content: 4 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: High (about 10.0 inches)

Interpretive groups

Land capability classification (irrigated): 6c

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: D

Ecological site: R013XY053ID - Wet Meadow

CAREX-JUNCUS

Hydric soil rating: Yes

Minor Components

Tepete, frequently flooded

Percent of map unit: 10 percent

Landform: Flood plains, marshes, drainageways, depressions

Down-slope shape: Linear

Across-slope shape: Concave, linear

Ecological site: R013XY053ID - Wet Meadow

CAREX-JUNCUS

Hydric soil rating: Yes

4.A. LANDSCAPE SETTING

The AOI is in central Teton Valley, where many small creeks and springs converge and contribute to the Teton River (Figure 14). This project is located where the valley transitions from drier irrigated fields to a large wetland complex of wet meadows with high groundwater and many springs (Figure 8. Darby Meadow Ranch - NWI Map of Area of Interest). Surface hydrology is primarily supplied by Darby Creek and its associated network of irrigation ditches and spring creeks (Figure 15).

Figure 14. Darby Meadow Ranch – USGS Streamer Map - Project Location

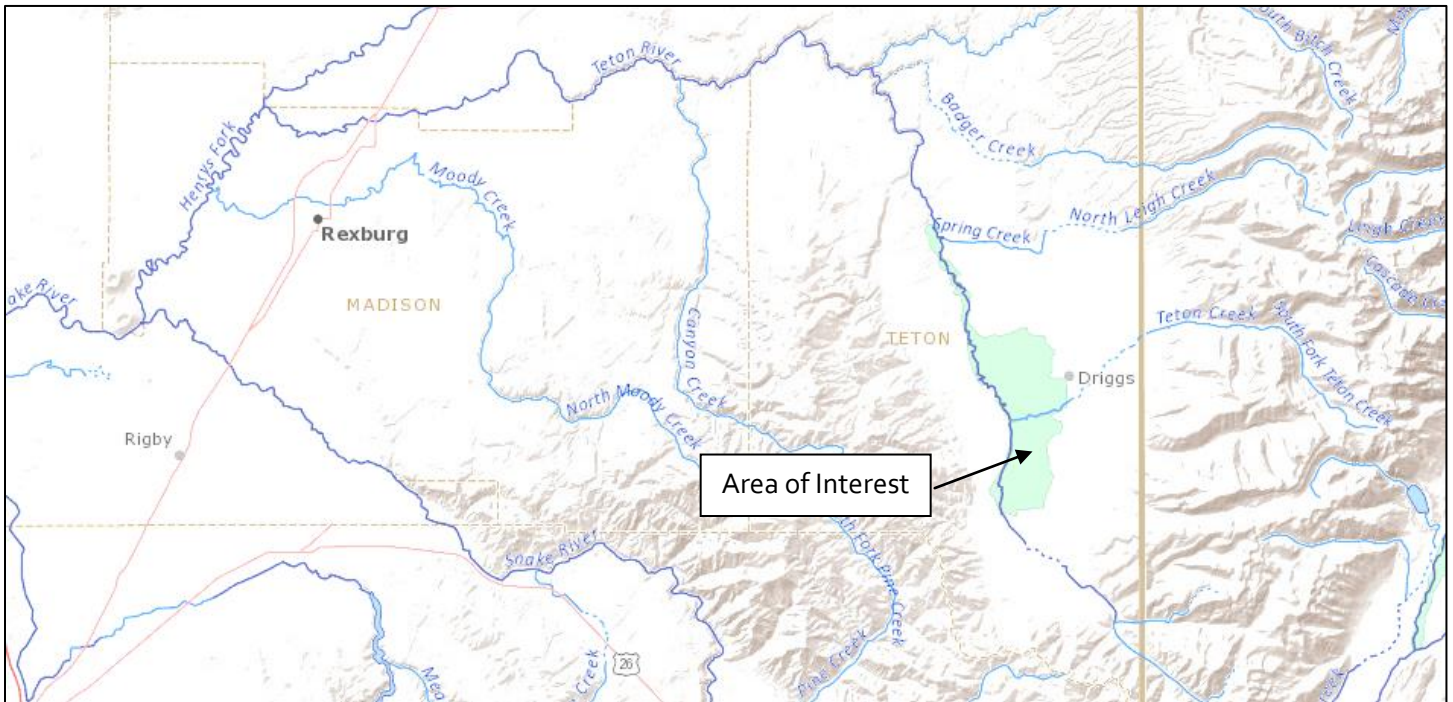
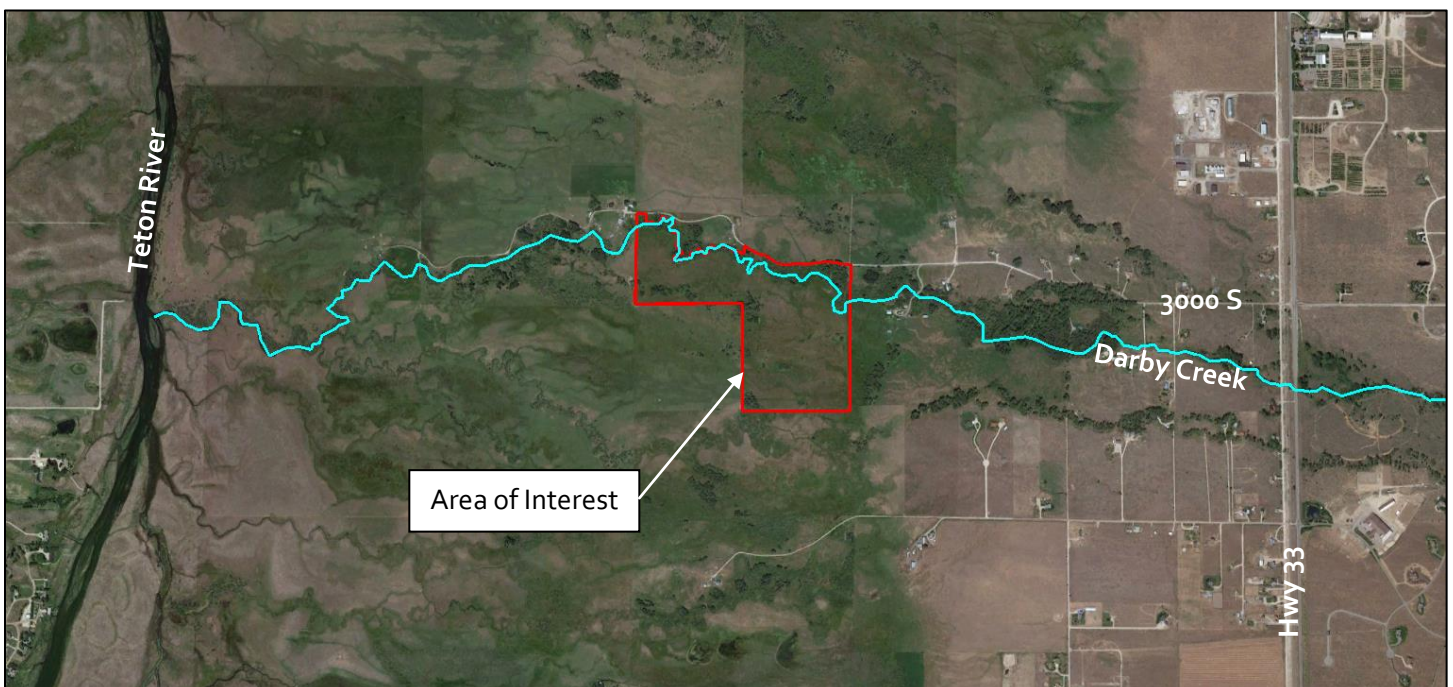


Figure 15. Darby Meadow Ranch – Hydrologic Vicinity



4.B. AQUATIC RESOURCES

Wetlands were found totaling 77.3 acres. These wetlands are palustrine emergent in the meadow, scrub-shrub dominated by willows, and forested dominated by aspen. 0.72 acres of stream are present, including Darby Creek and a spring creek tributary (S1). The downstream portion of Darby Creek roughly follows the property line, and any portion of the creek off the property is included in this acreage. Five ditches are present, totaling 0.27 acres. The dominant hydrologic influence within the AOI is high groundwater and surface water in streams and ditches.

Soils are generally consistent with the soil survey.

Table 1. Aquatic Resources within the Area of Interest

Aquatic Resource Name	Aquatic Resource Type	Cowardin Classification	Location (WGS84)	Area	Linear Feet
Wetland	Wetland	PEM, PSS, PFO	43.679580°, -111.134109°	77.3	n/a
S1	Stream	R2UB	43.679251°, -111.131637°	0.07	504
Darby Creek	Stream	R2UB	43.680476°, -111.133824°	0.65	4,698'
Total stream				0.72	5,202'
D1	Ditch	R4UBK	43.679582°, -111.133643°	0.15	3,313'
D2	Ditch	R4UBK	43.680673°, -111.132501°	0.01	322'
D3	Ditch	R4UBK	43.679661°, -111.131486°	0.01	120'
D4	Ditch	R4UBK	43.678182°, -111.131291°	0.05	1,091'
D5	Ditch	R4UBK	43.676305°, -111.134062°	0.05	1,136'
Total Ditch				0.27	5,982

5. 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

David, G., K. Fritz, Tracie-Lynn Nadeau, B. Topping, A. Allen, P. Trier, S. Kichefski, L. James, E. Wohl, AND D. Hamill. National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams. US Army Corps of Engineers, Washington, DC, 2022.

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. 2024 Field Indicators of Hydric Soils in the United States. Version 9.0

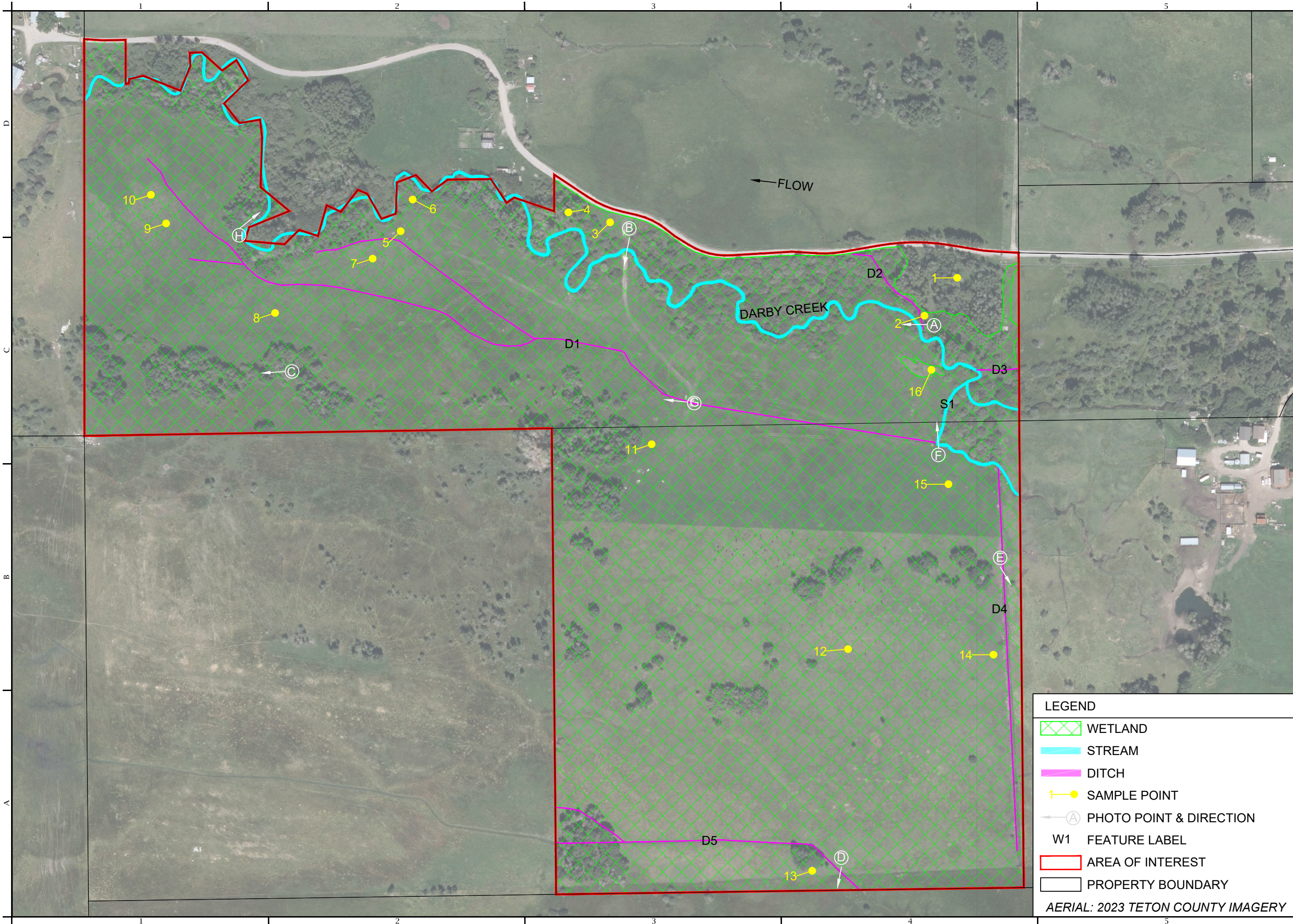
US Army Corps of Engineers. 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountain, Valleys, and Coast Region (V. 2.0). Wetlands Regulatory Assistance Program. ARDC/EL TR-10-3


USDA NRCS Soil Survey. <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.html>. 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/>. (Accessed May 14, 2024)

APPENDIX A - AQUATIC RESOURCE INVENTORY MAP





INTERMOUNTAIN
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**NOT FOR
CONSTRUCTION**

DARBY MEADOW RANCH

Aquatic Resource Inventory

Teton County, Idaho

Scale: 1" = 250'

IF PLOTTED ON 11"x17" SIZE, ADJUST
ACCORDINGLY BASED ON PAPER SIZE

DATE: January 8, 2025

DRAWN BY: GR

CHECKED BY: KS

JOB NAME: MARTIN.DWG








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REVISIONS:

**AQUATIC
RESOURCES**

1 OF 1

LEGEND

-  WETLAND
-  STREAM
-  DITCH
-  SAMPLE POINT
-  PHOTO POINT & DIRECTION
- W1 FEATURE LABEL
-  AREA OF INTEREST
-  PROPERTY BOUNDARY

AERIAL: 2023 TETON COUNTY IMAGERY

APPENDIX B - ON-SITE PHOTOGRAPHS

Sample Point and Photo Point Information

Sample Point	Lat	Long	Resources Present	Feature Label	Direction Taken
1	43.680699°	-111.131684°	n/a	n/a	W
2	43.680380°	-111.132090°	Wetland	Wetland	NW
3	43.681150°	-111.135380°	Wetland	Wetland	SW
4	43.681200°	-111.135870°	Wetland	Wetland	SW
5	43.681106°	-111.137681°	Wetland	Wetland	NW
6	43.681310°	-111.137550°	Wetland	Wetland	SW
7	43.680890°	-111.137960°	Wetland	Wetland	E
8	43.680460°	-111.139030°	Wetland	Wetland	NE
9	43.681170°	-111.140180°	Wetland	Wetland	W
10	43.681390°	-111.140340°	Wetland	Wetland	NW
11	43.679486°	-111.135033°	Wetland	Wetland	NW
12	43.677740°	-111.132950°	Wetland	Wetland	SW
13	43.676070°	-111.133360°	Wetland	Wetland	W
14	43.677740°	-111.131400°	Wetland	Wetland	S
15	43.678903°	-111.131736°	Wetland	Wetland	NW
16	43.679939°	-111.132033°	n/a	n/a	W
Photo Point	Lat	Long	Resources Present	Feature Label	Direction Taken
A	43.680247°	-111.131997°	Wetland, stream, ditch	Wetland, Darby Creek, D2	W
B	43.681042°	-111.135261°	Wetland, stream	Wetland, Darby Creek	S
C	43.680008°	-111.138908°	Wetland	Wetland	W
D	43.676144°	-111.133142°	Wetland, ditch	Wetland, D5	S
E	43.678469°	-111.131347°	Wetland, ditch	Wetland, D4	SE
F	43.679356°	-111.131981°	Wetland, stream	Wetland, S1	N
G	43.679722°	-111.134614°	Wetland, ditch	Wetland, D1	W
H	43.681094°	-111.139419°	Wetland, stream	Wetland, Darby Creek	NE

Sample Point 1 pit (non-wetland)



Sample Point 2 pit (wetland)



Sample Point 1 area (non-wetland)



Sample Point 2 area (wetland)



Sample Point 3 pit (wetland)



Sample Point 4 pit (wetland)



Sample Point 3 area (wetland)



Sample Point 4 area (wetland)



Sample Point 5 pit (wetland)



Sample Point 6 pit (wetland)



Sample Point 5 area (wetland)



Sample Point 6 area (wetland)



Sample Point 7 pit (wetland)



Sample Point 8 pit (wetland)



Sample Point 7 area (wetland)



Sample Point 8 area (wetland)



Sample Point 9 pit (wetland)



Sample Point 10 pit (wetland)



Sample Point 9 area (wetland)



Sample Point 10 area (wetland)



Sample Point 11 pit (wetland)



Sample Point 12 pit (wetland)



Sample Point 11 area (wetland)



Sample Point 12 area (wetland)



Sample Point 13 pit (wetland)



Sample Point 14 pit (wetland)



Sample Point 13 area (wetland)



Sample Point 14 area (wetland)



Sample Point 15 pit (wetland)



Sample Point 16 pit (non-wetland)



Sample Point 15 area (wetland)



Sample Point 16 area (non-wetland)



Photo Point A – Wetland, Darby Creek, ditch (D2)



Photo Point C – Wetland



Photo Point B – Wetland, Darby Creek



Photo Point D – Wetland, ditch (D5)



Photo Point E – Wetland, ditch (D4)



Photo Point G – Wetland, ditch (D1)



Photo Point F – Wetland, stream (S1), ditch headgate



Photo Point H – Wetland, Darby Creek



APPENDIX C - PLANT LIST

Genus	Species	Common Name	WIS
Achillea	millefolium	Yarrow	FACU
Agrostis	stolonifera	Creeping bentgrass	FAC
Alopecurus	arundinaceus	Creeping foxtail	FAC
Bromus	inermis	Smooth brome	UPL
Carduus	nutans	Musk thistle	UPL
Carex	nebrascensis	Nebraska sedge	OBL
Carex	pellita	Wooly sedge	OBL
Carex	utriculata	Common beaked sedge	OBL
Cirsium	arvense	Canada thistle	FAC
Cirsium	vulgare	Bull thistle	FACU
Cynoglossum	officinale	Houndstongue	FACU
Dactylis	glomerata	Orchard grass	FACU
Dasiphora	fruticosa	Shrubby cinquefoil	FAC
Elymus	lanceolatus	Thickspike wheatgrass	FACU
Equisetum	hyemale	Tall scouring-rush	FACW
Juncus	articulatus	Jointed rush	OBL
Juncus	balticus	Baltic rush	FACW
Medicago	lupulina	Black medic	FACU
Phleum	pratense	Timothy	FAC
Plantago	major	Great plantain	FAC
Poa	pratensis	Kentucky blue grass	FAC
Populus	tremuloides	Quaking aspen	FACU
Rosa	woodsii	Wood's rose	FACU
Salix		willow	FACW
Schedonorus	arundinaceus	Tall fescue	FAC
Symphoricarpos	albus	Common snowberry	FACU
Taraxacum	officinale	Common dandelion	FACU
Trifolium	repens	White clover	FAC

APPENDIX D - WETLAND DELINEATION DATA FORMS

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>1</u>	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>flat</u>		Slope (%): <u>1</u>	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.680699°</u>		Long: <u>-111.131684°</u> Datum: <u>WGS84</u>	
Soil Map Unit Name: <u>Furniss-Boquet complex, 0-1% slopes</u>		NWI classification: <u>PSS1C</u>			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>			Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>		
Remarks:					
VEGETATION – Use scientific names of plants.					
Tree Stratum (Plot size: <u>30' x 30'</u>)			Dominance Test worksheet:		
1. <u>Populus tremuloides</u> Absolute % Cover <u>70</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u>			Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)		
2. <u> </u>			Total Number of Dominant Species Across All Strata: <u>6</u> (B)		
3. <u> </u>			Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)		
4. <u> </u>			Prevalence Index worksheet:		
<u>70</u> =Total Cover			Total % Cover of:		
Sapling/Shrub Stratum (Plot size: <u>20' x 20'</u>)			Multiply by:		
1. <u>Dasiphora fruticosa</u> Absolute % Cover <u>3</u> Dominant Species? <u>No</u> Indicator Status <u>FAC</u>			OBL species <u>0</u> x 1 = <u>0</u>		
2. <u>Rosa woodsii</u> Absolute % Cover <u>20</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u>			FACW species <u>0</u> x 2 = <u>0</u>		
3. <u>Symphoricarpos albus</u> Absolute % Cover <u>25</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u>			FAC species <u>63</u> x 3 = <u>189</u>		
4. <u> </u>			FACU species <u>150</u> x 4 = <u>600</u>		
5. <u> </u>			UPL species <u>0</u> x 5 = <u>0</u>		
<u>48</u> =Total Cover			Column Totals: <u>213</u> (A) <u>789</u> (B)		
Herb Stratum (Plot size: <u>5' x 5'</u>)			Prevalence Index = B/A = <u>3.70</u>		
1. <u>Dactylis glomerata</u> Absolute % Cover <u>30</u> Dominant Species? <u>Yes</u> Indicator Status <u>FACU</u>			Hydrophytic Vegetation Indicators:		
2. <u>Schedonorus arundinaceus</u> Absolute % Cover <u>30</u> Dominant Species? <u>Yes</u> Indicator Status <u>FAC</u>			<u> </u> 1 - Rapid Test for Hydrophytic Vegetation		
3. <u>Poa pratensis</u> Absolute % Cover <u>20</u> Dominant Species? <u>Yes</u> Indicator Status <u>FAC</u>			<u> </u> 2 - Dominance Test is >50%		
4. <u>Medicago lupulina</u> Absolute % Cover <u>5</u> Dominant Species? <u>No</u> Indicator Status <u>FACU</u>			<u> </u> 3 - Prevalence Index is ≤3.0 ¹		
5. <u>Trifolium repens</u> Absolute % Cover <u>10</u> Dominant Species? <u>No</u> Indicator Status <u>FAC</u>			<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
6. <u> </u>			<u> </u> 5 - Wetland Non-Vascular Plants ¹		
7. <u> </u>			<u> </u> Problematic Hydrophytic Vegetation ¹ (Explain)		
8. <u> </u>			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
9. <u> </u>			Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>		
10. <u> </u>					
11. <u> </u>					
<u>95</u> =Total Cover					
Woody Vine Stratum (Plot size: <u> </u>)					
1. <u> </u>					
2. <u> </u>					
<u> </u> =Total Cover					
% Bare Ground in Herb Stratum <u> </u>					
Remarks:					

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/2	100					Loamy/Clayey	
4-12	10YR 3/3	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)
☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4)
☐ Histic Epipedon (A2) ☐ Sandy Redox (S5)
☐ Black Histic (A3) ☐ Stripped Matrix (S6)
☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (**except MLRA 1**)
☐ 1 cm Muck (A9) (**LRR D, G**) ☐ Loamy Gleyed Matrix (F2)
☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6)
☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7)
☐ 2.5 cm Mucky Peat or Peat (S2) (**LRR G**) ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR A, E**)
☐ Iron-Manganese Masses (F12) (**LRR D**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ____ No <u>X</u>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> 4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

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SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	100					Loamy/Clayey	
6-16	10YR 4/2	90	10YR 3/4	10	C	M	Loamy/Clayey	Distinct redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input checked="" type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>15</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>12</u> (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>	Sampling Point: <u> 3 </u>	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>		
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>convex</u>		Slope (%): <u> 1 </u>
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.681150°</u>	Long: <u>-111.135380°</u>	Datum: <u>WGS84</u>
Soil Map Unit Name: <u>Furniss-Boquet complex, 0-1% slopes</u>		NWI classification: <u>PSS1C</u>		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u> X </u> No <u> </u> (If no, explain in Remarks.)				
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u> X </u> No <u> </u>				
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u> Hydric Soil Present? Yes <u> X </u> No <u> </u> Wetland Hydrology Present? Yes <u> X </u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u> X </u> No <u> </u>	
Remarks:				
VEGETATION – Use scientific names of plants.				
<u>Tree Stratum</u> (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>
		=Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u> </u>)				
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>
		=Total Cover		
<u>Herb Stratum</u> (Plot size: <u> 5' x 5' </u>)				
1. <u>Agrostis stolonifera</u>		<u>45</u>	<u>Yes</u>	<u>FAC</u>
2. <u>Schedonorus arundinaceus</u>		<u>15</u>	<u>Yes</u>	<u>FAC</u>
3. <u>Phleum pratense</u>		<u>15</u>	<u>Yes</u>	<u>FAC</u>
4. <u>Carex nebrascensis</u>		<u>4</u>	<u>No</u>	<u>OBL</u>
5. <u>Trifolium repens</u>		<u>7</u>	<u>No</u>	<u>FAC</u>
6. <u>Carex utriculata</u>		<u>8</u>	<u>No</u>	<u>OBL</u>
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>
		<u>94</u>	=Total Cover	
<u>Woody Vine Stratum</u> (Plot size: <u> </u>)				
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>
		=Total Cover		
% Bare Ground in Herb Stratum <u> </u>				
Remarks:				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u> 12 </u>	x 1 = <u> 12 </u>
FACW species <u> 0 </u>	x 2 = <u> 0 </u>
FAC species <u> 82 </u>	x 3 = <u> 246 </u>
FACU species <u> 0 </u>	x 4 = <u> 0 </u>
UPL species <u> 0 </u>	x 5 = <u> 0 </u>
Column Totals: <u> 94 </u> (A)	<u> 258 </u> (B)
Prevalence Index = B/A = <u> 2.74 </u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid Test for Hydrophytic Vegetation

 X 2 - Dominance Test is >50%

 X 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹(Provide supporting data in Remarks or on a separate sheet)

 5 - Wetland Non-Vascular Plants¹

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Sampling Point: 3

HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology is likely based upon soils and vegetation present			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R		OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>
Investigator(s): <u>GR</u>		Sampling Date: <u>11/8/2024</u>
Section, Township, Range: <u>S10 T4N R45E</u>		Sampling Point: <u>4</u>
Landform (hillside, terrace, etc.): <u> </u>	Local relief (concave, convex, none): <u> </u>	Slope (%): <u>2</u>
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>	Lat: <u>43.681200°</u>	Long: <u>-111.135870°</u>
Datum: <u>WGS84</u>		
Soil Map Unit Name: <u>Furniss-Boquet complex, 0-1% slopes</u>	NW1 classification: <u>PSS1C</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>		Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' x 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <u>Populus tremuloides</u>	65	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)																																								
2. <u> </u>																																												
3. <u> </u>																																												
4. <u> </u>																																												
5. <u> </u>																																												
	65	=Total Cover																																										
Sapling/Shrub Stratum (Plot size: <u>20' x 20'</u>)				Prevalence Index worksheet: <table style="width:100%; font-size: small;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%;">Multiply by:</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">15</td> <td>x 1 =</td> <td style="text-align: center;">15</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">40</td> <td>x 2 =</td> <td style="text-align: center;">80</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">68</td> <td>x 3 =</td> <td style="text-align: center;">204</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">68</td> <td>x 4 =</td> <td style="text-align: center;">272</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">191</td> <td>(A)</td> <td style="text-align: center;">571</td> <td>(B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A =</td> <td style="text-align: center;">2.99</td> </tr> </table>	Total % Cover of:		Multiply by:			OBL species	15	x 1 =	15		FACW species	40	x 2 =	80		FAC species	68	x 3 =	204		FACU species	68	x 4 =	272		UPL species	0	x 5 =	0		Column Totals:	191	(A)	571	(B)	Prevalence Index = B/A =				2.99
Total % Cover of:		Multiply by:																																										
OBL species	15	x 1 =	15																																									
FACW species	40	x 2 =	80																																									
FAC species	68	x 3 =	204																																									
FACU species	68	x 4 =	272																																									
UPL species	0	x 5 =	0																																									
Column Totals:	191	(A)	571	(B)																																								
Prevalence Index = B/A =				2.99																																								
1. <u>Salix</u>	25	Yes	FACW																																									
2. <u>Rosa woodsii</u>	3	No	FACU																																									
3. <u> </u>																																												
4. <u> </u>																																												
5. <u> </u>																																												
	28	=Total Cover																																										
Herb Stratum (Plot size: <u>5' x 5'</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																								
1. <u>Cirsium arvense</u>	3	No	FAC																																									
2. <u>Schedonorus arundinaceus</u>	20	Yes	FAC																																									
3. <u>Agrostis stolonifera</u>	20	Yes	FAC																																									
4. <u>Trifolium repens</u>	5	No	FAC																																									
5. <u>Poa pratensis</u>	20	Yes	FAC																																									
6. <u>Carex utriculata</u>	15	No	OBL																																									
7. <u>Equisetum hyemale</u>	15	No	FACW																																									
8. <u> </u>																																												
9. <u> </u>																																												
10. <u> </u>																																												
11. <u> </u>																																												
	98	=Total Cover																																										
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																																								
1. <u> </u>																																												
2. <u> </u>																																												
		=Total Cover																																										
% Bare Ground in Herb Stratum <u> </u>																																												
Remarks:																																												

SOIL

Sampling Point: 4

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Cannot dig further due to shallow roots present. Lots of shallow swales and low topography throughout aspen forest.			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																																									
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																																									
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u> 5 </u>																																									
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																																											
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>convex</u>		Slope (%): <u> 2 </u>																																									
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.681106°</u>		Long: <u>-111.137681°</u> Datum: <u>WGS84</u>																																									
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>		NW1 classification: <u>PEM1C</u>																																											
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u> X </u> No <u> </u> (If no, explain in Remarks.)																																													
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u> X </u> No <u> </u>																																													
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																																													
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																																													
Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u> Hydric Soil Present? Yes <u> X </u> No <u> </u> Wetland Hydrology Present? Yes <u> X </u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u> X </u> No <u> </u>																																										
Remarks:																																													
VEGETATION – Use scientific names of plants.																																													
Tree Stratum (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 2 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 66.7% </u> (A/B)																																								
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
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		<u> </u>	<u> </u>	<u> </u>																																									
Sapling/Shrub Stratum (Plot size: <u> </u>)					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 10%;"></td> <td style="width: 10%;">Multiply by:</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>OBL species</td> <td><u> 0 </u></td> <td>x 1 =</td> <td><u> 0 </u></td> <td></td> </tr> <tr> <td>FACW species</td> <td><u> 5 </u></td> <td>x 2 =</td> <td><u> 10 </u></td> <td></td> </tr> <tr> <td>FAC species</td> <td><u> 80 </u></td> <td>x 3 =</td> <td><u> 240 </u></td> <td></td> </tr> <tr> <td>FACU species</td> <td><u> 0 </u></td> <td>x 4 =</td> <td><u> 0 </u></td> <td></td> </tr> <tr> <td>UPL species</td> <td><u> 25 </u></td> <td>x 5 =</td> <td><u> 125 </u></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td><u> 110 </u> (A)</td> <td></td> <td><u> 375 </u> (B)</td> <td></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td colspan="3"><u> 3.41 </u></td> </tr> </table>	Total % Cover of:		Multiply by:			OBL species	<u> 0 </u>	x 1 =	<u> 0 </u>		FACW species	<u> 5 </u>	x 2 =	<u> 10 </u>		FAC species	<u> 80 </u>	x 3 =	<u> 240 </u>		FACU species	<u> 0 </u>	x 4 =	<u> 0 </u>		UPL species	<u> 25 </u>	x 5 =	<u> 125 </u>		Column Totals:	<u> 110 </u> (A)		<u> 375 </u> (B)		Prevalence Index = B/A =		<u> 3.41 </u>		
Total % Cover of:		Multiply by:																																											
OBL species	<u> 0 </u>	x 1 =	<u> 0 </u>																																										
FACW species	<u> 5 </u>	x 2 =	<u> 10 </u>																																										
FAC species	<u> 80 </u>	x 3 =	<u> 240 </u>																																										
FACU species	<u> 0 </u>	x 4 =	<u> 0 </u>																																										
UPL species	<u> 25 </u>	x 5 =	<u> 125 </u>																																										
Column Totals:	<u> 110 </u> (A)		<u> 375 </u> (B)																																										
Prevalence Index = B/A =		<u> 3.41 </u>																																											
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
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		<u> </u>	<u> </u>	<u> </u>																																									
Herb Stratum (Plot size: <u> 5' x 5' </u>)					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																								
1. <u>Bromus inermis</u>		<u> 25 </u>	<u> Yes </u>	<u> UPL </u>																																									
2. <u>Poa pratensis</u>		<u> 25 </u>	<u> Yes </u>	<u> FAC </u>																																									
3. <u>Schedonorus arundinaceus</u>		<u> 30 </u>	<u> Yes </u>	<u> FAC </u>																																									
4. <u>Phleum pratense</u>		<u> 10 </u>	<u> No </u>	<u> FAC </u>																																									
5. <u>Equisetum hyemale</u>		<u> 5 </u>	<u> No </u>	<u> FACW </u>																																									
6. <u>Trifolium repens</u>		<u> 15 </u>	<u> No </u>	<u> FAC </u>																																									
7. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
		<u> 110 </u>	<u> </u>	<u> </u>																																									
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																																								
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																																									
		<u> </u>	<u> </u>	<u> </u>																																									
% Bare Ground in Herb Stratum <u> </u>																																													
Remarks:																																													

SOIL

Sampling Point: 5

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Proximity to flood irrigation and redox features starting at 8".			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																																	
Applicant/Owner: <u>John Martin</u>		State: <u> ID </u>		Sampling Point: <u> 6 </u>																																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u> </u>		Slope (%): <u> 0 </u>																																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.681310°</u>		Long: <u>-111.137550°</u> Datum: <u>WGS84</u>																																	
Soil Map Unit Name: <u>Furniss-Boquet complex, 0-1% slopes</u>		NW1 classification: <u>PSS1C</u>																																			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u> X </u> No <u> </u> (If no, explain in Remarks.)																																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u> X </u> No <u> </u>																																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																																					
Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u> Hydric Soil Present? Yes <u> X </u> No <u> </u> Wetland Hydrology Present? Yes <u> X </u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u> X </u> No <u> </u>																																		
Remarks:																																					
VEGETATION – Use scientific names of plants.																																					
Tree Stratum (Plot size: <u> 30' x 30' </u>) 1. <u>Populus tremuloides</u> 2. <u> </u> 3. <u> </u> 4. <u> </u> <div style="text-align: right; margin-top: 5px;">60 =Total Cover</div>			Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 2 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 66.7% </u> (A/B)																																		
Sapling/Shrub Stratum (Plot size: <u> </u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <div style="text-align: right; margin-top: 5px;">=Total Cover</div>			Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <th colspan="2" style="text-align: left;">Total % Cover of:</th> <th colspan="2" style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td style="text-align: center;">15</td> <td>x 1 =</td> <td style="text-align: center;">15</td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">90</td> <td>x 3 =</td> <td style="text-align: center;">270</td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">60</td> <td>x 4 =</td> <td style="text-align: center;">240</td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">165</td> <td>(A)</td> <td style="text-align: center;">525 (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> <td colspan="2" style="text-align: center;">3.18</td> </tr> </table>			Total % Cover of:		Multiply by:		OBL species	15	x 1 =	15	FACW species	0	x 2 =	0	FAC species	90	x 3 =	270	FACU species	60	x 4 =	240	UPL species	0	x 5 =	0	Column Totals:	165	(A)	525 (B)	Prevalence Index = B/A =		3.18	
Total % Cover of:		Multiply by:																																			
OBL species	15	x 1 =	15																																		
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FAC species	90	x 3 =	270																																		
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Column Totals:	165	(A)	525 (B)																																		
Prevalence Index = B/A =		3.18																																			
Herb Stratum (Plot size: <u> 5' x 5' </u>) 1. <u>Schedonorus arundinaceus</u> 2. <u>Agrostis stolonifera</u> 3. <u>Carex nebrascensis</u> 4. <u>Phleum pratense</u> 5. <u> </u> 6. <u> </u> 7. <u> </u> 8. <u> </u> 9. <u> </u> 10. <u> </u> 11. <u> </u> <div style="text-align: right; margin-top: 5px;">105 =Total Cover</div>			Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>																																		
Woody Vine Stratum (Plot size: <u> </u>) 1. <u> </u> 2. <u> </u> <div style="text-align: right; margin-top: 5px;">=Total Cover</div>			Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																																		
% Bare Ground in Herb Stratum <u> </u>			Remarks:																																		

SOIL

Sampling Point: 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 2/2	100					Loamy/Clayey	
7-14	10YR 2/2	95	10YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Hydrology is likely based upon herbaceous vegetation present and hydric soils. Lots of shallow swales are present throughout forest. At the same elevation as inundation visible in Google Earth 2017 imagery.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>7</u>																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>concave</u>		Slope (%): <u>2</u>																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.680890°</u>		Long: <u>-111.137960°</u> Datum: <u>WGS84</u>																	
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>		NW1 classification: <u>PEM1C</u>																			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>																		
Remarks:																					
VEGETATION – Use scientific names of plants.																					
Tree Stratum (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
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		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
Sapling/Shrub Stratum (Plot size: <u> </u>)					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>2</u></td> <td>x 2 = <u>4</u></td> </tr> <tr> <td>FAC species <u>98</u></td> <td>x 3 = <u>294</u></td> </tr> <tr> <td>FACU species <u>1</u></td> <td>x 4 = <u>4</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>101</u> (A)</td> <td><u>302</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.99</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>2</u>	x 2 = <u>4</u>	FAC species <u>98</u>	x 3 = <u>294</u>	FACU species <u>1</u>	x 4 = <u>4</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>101</u> (A)	<u>302</u> (B)	Prevalence Index = B/A = <u>2.99</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>2</u>	x 2 = <u>4</u>																				
FAC species <u>98</u>	x 3 = <u>294</u>																				
FACU species <u>1</u>	x 4 = <u>4</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>101</u> (A)	<u>302</u> (B)																				
Prevalence Index = B/A = <u>2.99</u>																					
1. <u> </u>																					
2. <u> </u>																					
3. <u> </u>																					
4. <u> </u>																					
5. <u> </u>																					
Herb Stratum (Plot size: <u>5' x 5'</u>)					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Phleum pratense</u>		<u>35</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Poa pratensis</u>		<u>20</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Trifolium repens</u>		<u>8</u>	<u>No</u>	<u>FAC</u>																	
4. <u>Schedonorus arundinaceus</u>		<u>35</u>	<u>Yes</u>	<u>FAC</u>																	
5. <u>Achillea millefolium</u>		<u>1</u>	<u>No</u>	<u>FACU</u>																	
6. <u>Equisetum hyemale</u>		<u>2</u>	<u>No</u>	<u>FACW</u>																	
7. <u> </u>																					
8. <u> </u>																					
9. <u> </u>																					
10. <u> </u>																					
11. <u> </u>																					
		<u>101</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u> </u>)																					
1. <u> </u>																					
2. <u> </u>																					
% Bare Ground in Herb Stratum <u> </u>																					
Remarks:																					

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 2/1	100					Muck	
2-11	10YR 2/1	100					Loamy/Clayey	
11-16	10YR 5/2	90	10YR 4/4	10	C	M	Loamy/Clayey	Distinct redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> 1 cm Muck (A9) (LRR D, G) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) (LRR A, E) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (F22) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>				<u>Secondary Indicators (2 or more required)</u>			
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)					
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: Located in a low spot downslope from a ditch. Hydrology is likely based upon vegetation and soils present.							

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>8</u>																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>concave</u>		Slope (%): <u>1</u>																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.680460°</u>		Long: <u>-111.139030°</u> Datum: <u>WGS84</u>																	
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>		NW1 classification: <u>PEM1C</u>																			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>																		
Remarks:																					
VEGETATION – Use scientific names of plants.																					
Tree Stratum (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
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		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
Sapling/Shrub Stratum (Plot size: <u> </u>)					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; text-align: right;">Total % Cover of:</td> <td style="width: 40%; text-align: left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>3</u></td> <td>x 1 = <u>3</u></td> </tr> <tr> <td>FACW species <u>2</u></td> <td>x 2 = <u>4</u></td> </tr> <tr> <td>FAC species <u>91</u></td> <td>x 3 = <u>273</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>8</u></td> <td>x 5 = <u>40</u></td> </tr> <tr> <td>Column Totals: <u>104</u> (A)</td> <td><u>320</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.08</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>3</u>	x 1 = <u>3</u>	FACW species <u>2</u>	x 2 = <u>4</u>	FAC species <u>91</u>	x 3 = <u>273</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>8</u>	x 5 = <u>40</u>	Column Totals: <u>104</u> (A)	<u>320</u> (B)	Prevalence Index = B/A = <u>3.08</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>3</u>	x 1 = <u>3</u>																				
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1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
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		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
Herb Stratum (Plot size: <u>5' x 5'</u>)					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Bromus inermis</u>		<u>8</u>	<u>No</u>	<u>UPL</u>																	
2. <u>Phleum pratense</u>		<u>38</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Poa pratensis</u>		<u>38</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Schedonorus arundinaceus</u>		<u>10</u>	<u>No</u>	<u>FAC</u>																	
5. <u>Trifolium repens</u>		<u>5</u>	<u>No</u>	<u>FAC</u>																	
6. <u>Equisetum hyemale</u>		<u>2</u>	<u>No</u>	<u>FACW</u>																	
7. <u>Carex nebrascensis</u>		<u>3</u>	<u>No</u>	<u>OBL</u>																	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u> </u>	<u> </u>																	
		<u>104</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u> </u>)					Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u> </u>	<u>=Total Cover</u>																		
% Bare Ground in Herb Stratum <u> </u>																					
Remarks:																					

Sampling Point: 8

HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology is likely based upon vegetation and soils present.			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>9</u>																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>concave</u>		Slope (%): <u>2</u>																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.681170°</u>		Long: <u>-111.140180°</u> Datum: <u>WGS84</u>																	
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>		NW1 classification: <u>PEM1C</u>																			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>																		
Remarks:																					
VEGETATION – Use scientific names of plants.																					
Tree Stratum (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
Sapling/Shrub Stratum (Plot size: <u> </u>)					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>9</u></td> <td>x 1 = <u>9</u></td> </tr> <tr> <td>FACW species <u>4</u></td> <td>x 2 = <u>8</u></td> </tr> <tr> <td>FAC species <u>93</u></td> <td>x 3 = <u>279</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>106</u> (A)</td> <td><u>296</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.79</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>9</u>	x 1 = <u>9</u>	FACW species <u>4</u>	x 2 = <u>8</u>	FAC species <u>93</u>	x 3 = <u>279</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>106</u> (A)	<u>296</u> (B)	Prevalence Index = B/A = <u>2.79</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>9</u>	x 1 = <u>9</u>																				
FACW species <u>4</u>	x 2 = <u>8</u>																				
FAC species <u>93</u>	x 3 = <u>279</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>106</u> (A)	<u>296</u> (B)																				
Prevalence Index = B/A = <u>2.79</u>																					
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
Herb Stratum (Plot size: <u>5' x 5'</u>)					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Phleum pratense</u>		<u>40</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Schedonorus arundinaceus</u>		<u>30</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Carex pellita</u>		<u>8</u>	<u>No</u>	<u>OBL</u>																	
4. <u>Poa pratensis</u>		<u>20</u>	<u>No</u>	<u>FAC</u>																	
5. <u>Juncus balticus</u>		<u>4</u>	<u>No</u>	<u>FACW</u>																	
6. <u>Trifolium repens</u>		<u>3</u>	<u>No</u>	<u>FAC</u>																	
7. <u>Carex nebrascensis</u>		<u>1</u>	<u>No</u>	<u>OBL</u>																	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u>106</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																					
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
% Bare Ground in Herb Stratum <u> </u>																					
Remarks:																					

SOIL

Sampling Point: 9

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Located in a low point, downslope from a ditch.			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>10</u>																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>convex</u>		Slope (%): <u>2</u>																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.681390°</u>		Long: <u>-111.140340°</u> Datum: <u>WGS84</u>																	
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>				NWI classification: <u>PEM1C</u>																	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>																		
Remarks: <u>Highest spot in vicinity</u>																					
VEGETATION – Use scientific names of plants.																					
Tree Stratum (Plot size: <u> </u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> <u> </u> =Total Cover		Absolute % Cover Dominant Species? Indicator Status		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																	
Sapling/Shrub Stratum (Plot size: <u> </u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <u> </u> =Total Cover																					
Herb Stratum (Plot size: <u>5' x 5'</u>) 1. <u>Bromus inermis</u> 2. <u>Phleum pratense</u> 3. <u>Trifolium repens</u> 4. <u>Achillea millefolium</u> 5. <u>Juncus balticus</u> 6. <u>Schedonorus arundinaceus</u> 7. <u>Poa pratensis</u> 8. <u> </u> 9. <u> </u> 10. <u> </u> 11. <u> </u> <u>100</u> =Total Cover		12 35 5 4 4 35 5 No Yes No No No Yes No UPL FAC FAC FACU FACW FAC FAC																			
Woody Vine Stratum (Plot size: <u> </u>) 1. <u> </u> 2. <u> </u> <u> </u> =Total Cover % Bare Ground in Herb Stratum <u> </u>				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>4</u></td> <td>x 2 = <u>8</u></td> </tr> <tr> <td>FAC species <u>80</u></td> <td>x 3 = <u>240</u></td> </tr> <tr> <td>FACU species <u>4</u></td> <td>x 4 = <u>16</u></td> </tr> <tr> <td>UPL species <u>12</u></td> <td>x 5 = <u>60</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>324</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.24</u></td> </tr> </table>		Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>4</u>	x 2 = <u>8</u>	FAC species <u>80</u>	x 3 = <u>240</u>	FACU species <u>4</u>	x 4 = <u>16</u>	UPL species <u>12</u>	x 5 = <u>60</u>	Column Totals: <u>100</u> (A)	<u>324</u> (B)	Prevalence Index = B/A = <u>3.24</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>4</u>	x 2 = <u>8</u>																				
FAC species <u>80</u>	x 3 = <u>240</u>																				
FACU species <u>4</u>	x 4 = <u>16</u>																				
UPL species <u>12</u>	x 5 = <u>60</u>																				
Column Totals: <u>100</u> (A)	<u>324</u> (B)																				
Prevalence Index = B/A = <u>3.24</u>																					
Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																					
Remarks:																					

SOIL

Sampling Point: 10

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology is likely based upon vegetation and soils present.			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>11</u>																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S15 T4N R45E</u>																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>convex</u>		Slope (%): <u> </u>																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.679486°</u>		Long: <u>-111.135033°</u> Datum: <u>WGS84</u>																	
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>		NW1 classification: <u>PEM1C</u>																			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>			Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>																		
Remarks: <u>Highest spot in vicinity</u>																					
VEGETATION – Use scientific names of plants.																					
<u>Tree Stratum</u> (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
<u>Sapling/Shrub Stratum</u> (Plot size: <u> </u>)					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>95</u></td> <td>x 3 = <u>285</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 = <u>20</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>305</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.05</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>95</u>	x 3 = <u>285</u>	FACU species <u>5</u>	x 4 = <u>20</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>305</u> (B)	Prevalence Index = B/A = <u>3.05</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>95</u>	x 3 = <u>285</u>																				
FACU species <u>5</u>	x 4 = <u>20</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>100</u> (A)	<u>305</u> (B)																				
Prevalence Index = B/A = <u>3.05</u>																					
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
<u>Herb Stratum</u> (Plot size: <u>5' x 5'</u>)					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Phleum pratense</u>		<u>45</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Cirsium vulgare</u>		<u>1</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Poa pratensis</u>		<u>30</u>	<u>Yes</u>	<u>FAC</u>																	
4. <u>Taraxacum officinale</u>		<u>3</u>	<u>No</u>	<u>FACU</u>																	
5. <u>Trifolium repens</u>		<u>10</u>	<u>No</u>	<u>FAC</u>																	
6. <u>Achillea millefolium</u>		<u>1</u>	<u>No</u>	<u>FACU</u>																	
7. <u>Schedonorus arundinaceus</u>		<u>10</u>	<u>No</u>	<u>FAC</u>																	
8. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u>100</u>	=Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u> </u>)																					
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
% Bare Ground in Herb Stratum <u> </u>																					
Remarks:																					

Sampling Point: 11

HYDROLOGY			
Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Hydrology likely based on vegetation and soils present			

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SOIL

Sampling Point: 12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 2/1	100					Loamy/Clayey	
7-14	10YR 4/1	85	10YR 4/4	15	C	M	Loamy/Clayey	Distinct redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Hydrology is likely based on vegetation and soils present

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SOIL

Sampling Point: 13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/2	100					Loamy/Clayey	
10-16	10YR 4/2	65	10YR 4/6	35	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: Hydrology likely based on vegetation and soils present				

SOIL

Sampling Point: 14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy/Clayey	
10-16	10YR 4/1	80	10YR 3/6	20	C	M	Loamy/Clayey	Prominent redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Downslope from ditch	

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SOIL

Sampling Point: 15

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input checked="" type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Hydrology is likely based on vegetation and soils present.			

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R				OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)																	
Project/Site: <u>Martin - Darby Meadow Ranch</u>		City/County: <u>Teton County</u>		Sampling Date: <u>11/8/2024</u>																	
Applicant/Owner: <u>John Martin</u>		State: <u> </u> ID: <u> </u>		Sampling Point: <u>16</u>																	
Investigator(s): <u>GR</u>		Section, Township, Range: <u>S10 T4N R45E</u>																			
Landform (hillside, terrace, etc.): <u> </u>		Local relief (concave, convex, none): <u>convex</u>		Slope (%): <u>2</u>																	
Subregion (LRR/MLRA): <u>LRR E, MLRA 43B</u>		Lat: <u>43.679939°</u>		Long: <u>-111.132033°</u> Datum: <u>WGS84</u>																	
Soil Map Unit Name: <u>Zohner-Zohner, frequently flooded complex 0-2% slopes</u>				NW1 classification: <u>PEM1C</u>																	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>																					
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)																					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.																					
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>			Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>																		
Remarks: Disturbed site, compacted fill likely placed when irrigation diversion structure was installed nearby.																					
VEGETATION – Use scientific names of plants.																					
Tree Stratum (Plot size: <u> </u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)																
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
Sapling/Shrub Stratum (Plot size: <u> </u>)					Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>41</u></td> <td>x 4 = <u>164</u></td> </tr> <tr> <td>UPL species <u>27</u></td> <td>x 5 = <u>135</u></td> </tr> <tr> <td>Column Totals: <u>98</u> (A)</td> <td><u>389</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.97</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>41</u>	x 4 = <u>164</u>	UPL species <u>27</u>	x 5 = <u>135</u>	Column Totals: <u>98</u> (A)	<u>389</u> (B)	Prevalence Index = B/A = <u>3.97</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>30</u>	x 3 = <u>90</u>																				
FACU species <u>41</u>	x 4 = <u>164</u>																				
UPL species <u>27</u>	x 5 = <u>135</u>																				
Column Totals: <u>98</u> (A)	<u>389</u> (B)																				
Prevalence Index = B/A = <u>3.97</u>																					
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
Herb Stratum (Plot size: <u>5' x 5'</u>)					Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5 - Wetland Non-Vascular Plants ¹ <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Bromus inermis</u>		<u>25</u>	<u>Yes</u>	<u>UPL</u>																	
2. <u>Achillea millefolium</u>		<u>4</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Cynoglossum officinale</u>		<u>2</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Elymus lanceolatus</u>		<u>30</u>	<u>Yes</u>	<u>FACU</u>																	
5. <u>Poa pratensis</u>		<u>25</u>	<u>Yes</u>	<u>FAC</u>																	
6. <u>Carduus nutans</u>		<u>2</u>	<u>No</u>	<u>UPL</u>																	
7. <u>Trifolium repens</u>		<u>5</u>	<u>No</u>	<u>FAC</u>																	
8. <u>Taraxacum officinale</u>		<u>5</u>	<u>No</u>	<u>FACU</u>																	
9. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		<u>98</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																					
1. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>		<u> </u>	<u> </u>	<u> </u>																	
		=Total Cover																			
% Bare Ground in Herb Stratum <u> </u>																					
Remarks:																					

SOIL

Sampling Point: 16

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2	
<input type="checkbox"/> High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Depth (inches):	<input type="text"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Depth (inches):	<input type="text"/>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Depth (inches):	<input type="text"/>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Very firm and rocky, cannot dig			