AQUATIC RESOURCE DELINEATION

STRR LLC PROJECT AREA TETON COUNTY, IDAHO



Prepared For

STRR LLC

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AQUATIC RESOURCE DELINEATION STRR LLC PROJECT AREA TETON COUNTY, IDAHO

INTRODUCTION

An Aquatic Resource Delineation (ARD) was performed in fall 2024 on the 643.5-acre STRR LLC project area in Teton County, Idaho. The project area was comprised of 7 parcels owned by STRR LLC (P.O. Box G, Aspen, CO 81612). The delineation was conducted by Kent Werlin and Chase Krumholz, wetland scientists for Biota.

The purpose of this study was to determine if any wetlands, per wetland definitions in the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory 1987) and applicable supplements, exist within the study area; and if present, to identify and document the locations and boundaries of all wetlands and other aquatic resources on the property per the 2019 Aquatic Resource Delineation guidance issued by the USACE Walla Walla District. The final determination of aquatic resource presence, boundaries, and jurisdiction under Section 404 of the Federal Clean Water Act is the privilege and responsibility of the USACE. An Approved Jurisdictional Determination (AJD) for the delineated aquatic resources in the project area is requested.

LOCATION AND PHYSIOGRAPHY

The project area is located north of Packsaddle Road (W 4000 N) and west of the Teton River, about 10 miles northwest of Driggs in Teton County, Idaho (T5N R44E Section 2 & 3; Appendix 1-Exhibit 1). The center of the project area is located at the following coordinates (43.7887071147153 N, -111.2332659655 E). Access to the project area from Driggs is gained by traveling north on ID-33 for about 4 miles, then west on W 4000 N for 5.7 miles, then north on Eddyline Drive.

The project area is located west of the Teton River, and the local topography is comprised of rolling hills. The project area includes a reach of Packsaddle Creek and associated floodplain and a small portion of the Teton River floodplain. Terrain within the project area is undulating with elevations ranging from 5,947 to 6,977 feet, and the drainage pattern is primarily west to east.

LAND USE AND CURRENT CONDITIONS

The project area is located on the west side of the Teton River, and the local topography is comprised of rolling hills. The property includes a reach of Packsaddle Creek and associated floodplain and a small portion of the Teton River floodplain. The property has a long history of agricultural use as active farmland and pastureland. Existing development on the property is limited to fencing and unimproved 2-track access routes for farm equipment. The majority of the STRR LLC property has been converted to farmland that is actively farmed. The remainder of the property is largely dominated by sagebrush steppe and riparian vegetation associated with Packsaddle Creek.

SOILS

Per the USDA Soil Survey that encompasses the project area, soils within the project area were mapped as Foxcreek-Zufelt complex - 0 to 2 percent slopes, Arimo-Zundell complex - 0 to 2 percent slopes, Badgerton-Arimo complex - 0 to 2 percent slopes, Alpine-Kucera complex - 0 to 4 percent slopes, Alpine-St. Anthony complex - 0 to 2 percent slopes, Kucera-Lostine complex - 0 to 4 percent slopes, and Iphil-Ririe complex - 4 to 20 percent slopes [Appendix 1-Exhibit 3]. A custom NRCS soil resource report for the study area is attached as Appendix 2.

AQUATIC RESOURCE DELINEATION

METHODS

A routine wetland delineation was performed in 2024 using the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). Preliminary data were gathered from several sources including the US Fish and Wildlife Service's National Wetlands Inventory (NWI) mapping; the National Wetland Plant List (Lichvar et al. 2012); LiDAR elevation data, and available aerial imagery. Sample points were established based on topographical setting; and soils, hydrology, and vegetation were characterized at each sample point.

Data associated with the wetland delineation were collected from 7 sample points and recorded onto wetland determination data forms from the 2010 USACE Regional Supplement (Appendix 3). Numerous informal sample points were also utilized to delineate aquatic resource boundaries. Aquatic resource boundaries were mapped using an Arrow 100 resource-grade GPS with sub-meter accuracy. Photographic documentation of aquatic resources and sample points are presented in Appendix 4.

RESULTS

NWI mapping depicts palustrine emergent wetlands (PEM1A) and riverine wetlands (R5UBH) within the project area (Appendix 1-Exhibit 4). Field data collected during this study confirmed that definitional wetlands are present within the project area. Subsequent mapping of wetland boundaries revealed that approximately 1.49-acres (64,856 sf) of the project area conformed to the definitional criteria for wetlands per the 1987 USACE Manual and the 2010 USACE Regional Supplement. Of the 7 sample points, all 3 wetland criteria were met at 3 sample points (SP3,4,5), and it was determined that these sample points were located in wetlands (Table 1). All 3 wetland criteria were not met at 4 sample points, and it was determined that these sample points were located in upland areas. It appears that while some of the depressional areas and relic fluvial channels proximate to Packsaddle Creek have wetland vegetation present, a lack of hydric soils and wetland hydrology indicate these areas do not have sufficient hydrology to support wetlands. Delineated wetland locations and sample points are depicted in Appendix 1-Exhibit 5.

WETLAND DETAILS

Multiple wetland classification systems have been developed and are currently in use around the world. The most common classification system and the one used in this report is "The Classification of Wetlands and Deepwater Habitats of the United States" (Cowardin et al. 1979). Within this system, wetland classification is based primarily on geologic and hydrologic considerations, with vegetation life form or substrate type used as a class modifier. Delineated wetlands were classified as palustrine emergent or palustrine scrub-shrub wetlands according to the Cowardin classification system and are described below and in Table 2. Aquatic resource locations are presented in Table 3.

Palustrine Scrub-Shrub Wetlands

Approximately 1.3-acres of delineated wetlands were classified as palustrine scrub-shrub. These wetlands are located on the Teton River floodplain in the northeastern portion of the project area.

<u>Vegetation</u> - Dominant woody vegetation within the scrub-shrub wetlands included *Salix exigua, Salix lutea and Dasiphora fruticosa*, with *Carex utriculata, Carex nebrascensis, Hippuris vulgaris* and *Poa pratensis* dominating the understory.

<u>Hydrology</u> – Hydrologic support for delineated scrub-shrub wetlands is provided by a seasonally elevated water table associated with the Teton River. The hydrologic regime of these wetlands appears to be temporarily to seasonally flooded. No primary wetland hydrology indicators were found at the scrub-shrub wetland sample point. Secondary indicators observed included Saturation Visible on Aerial Imagery (C9), Geomorphic Position (D2) and FAC-Neutral Test (D5).

<u>Soils</u> – The only hydric soil indicator observed in the scrub-shrub wetland was Redox Dark Surface (F6). "Other" was utilized as an indicator for soils observed at SP5. The area was considered a wetland because wetland hydrology indicators and wetland vegetation were present. Soil characteristics associated with scrub-shrub wetland sample points are presented on the respective data sheets in Appendix 2.

Palustrine Emergent Wetlands

Approximately 0.19 acres of delineated wetlands were classified as palustrine emergent. Although a few willows were present in a portion of the delineated emergent wetlands, shrub canopy coverage did not meet the 30% canopy coverage criterion for classification as scrub-shrub wetlands.

<u>Vegetation</u> – The vegetation community within delineated emergent wetlands was dominated by *Juncus balticus*, *Agrostis stolonifera*, and *Poa pratensis*.

<u>Hydrology</u> – Hydrologic support for delineated emergent wetlands is provided by Packsaddle Creek (C1). The hydrologic regime of delineated emergent wetlands appears to be temporarily flooded (surface water present for several weeks early in the growing season) to seasonally flooded (surface water present for 2 to 3 months during the growing season). No primary indicators were observed. Secondary indicators observed included geomorphic position (D2), and a positive FAC-neutral test (D5).

<u>Soils</u> – The only hydric soil indicator observed at the emergent wetland sample point was Histic Epipedon (A2). Soil characteristics associated with emergent wetland sample point are presented on the respective data sheets in Appendix 2.

Table 1. Summary of individual sample points and wetland criteria, STRR LLC Project Area, Teton County, Idaho. (Are criteria met and is it a wetland? N=No and Y=Yes)

Sample Point	Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	Wetland Determination
SP1	Y	N	N	N
SP2	N	N	N	N
SP3	N	N	Y	N
SP4	Y	Y	Y	Y
SP5	Y	Y	Y	Y
SP6	Y	Y	Y	Y
SP7	N	N	N	N

Table 2. Aquatic resource summary, STRR LLC Project Area, Teton County, Idaho.

Aquatic Resource Feature ID	Aquatic Resource Type	Sample Point ID	Wetland Type (Cowardin)	Area (acres)	Area (sq ft)	Notes	Photos
W1	Emergent Wetland	SP4	PEMA/C	0.19	8,095	Supported by an elevated water table and surface water from seasonal flows associated with Packsaddle Creek	P7, P8
W2	Scrub-Shrub Wetland	SP5	PSSA/C	0.49	21,133	Supported by an elevated water table associated with the Teton River	P9, P10
W3	Scrub-Shrub Wetland	SP6	PSSA/C	0.82	5,045	Supported by an elevated water table associated with the Teton River	P11, P12
C1	Packsaddle Creek	NA	NA	4.49	195,377	Approximately 8,700 ft. lineal foot reach	P15, P18, P19

Table 3. Aquatic resource locations, STRR LLC Project Area, Teton County, Idaho.

Aquatic Resource Feature ID	Latitude	Longitude
W1	43.7861287816779	-111.23476336369
W1	43.7838141301314	111.248197067428
W1	43.7859295217764	-111.235560307299
W2	43.7917976199919	-111.225934171186
W3	43.7957634111753	-111.226155501742
C1	43.7857652603681	-111.234809546569

NON-WETLAND AQUATIC RESOURCE DETAILS

USACE-approved field indicators were used to identify and delineate the Ordinary High-Water Mark (OHWM) for non-wetland aquatic features, and photos of the non-wetland aquatic resource are presented in Appendix 3. The only non-wetland aquatic resource in the project area is a reach of Packsaddle Creek (C1). Packsaddle Creek originates about 2 miles west of the project area, flows west-to-east through the southern portion of the project area, and eventually flows into the Teton River about 1,000 ft east of the project area. Packsaddle Creek is an ephemeral creek that has flashy hydrology with strong seasonal flow fluctuations. The project area reach of the creek is typically at bankfull stage in early summer and then completely dry by late summer.

SUMMARY AND CONCLUSIONS

A routine wetland delineation was performed as part of a comprehensive aquatic resource delineation within the 643.5-acre STRR LLC project area in the fall of 2024. Field data collected from 7 sample points showed that about 1.49-acres (64,856 sq ft) of the project area conformed to wetland definitional criteria per the USACE 1987 Wetland Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). Wetlands were classified as palustrine emergent or palustrine scrub-shrub. Wetland boundaries were mapped in the field with an Arrow 100 resource-grade GPS and refined via the use of multiple aerial imagery datasets and LiDAR elevation data. A reach of Packsaddle Creek is the only non-wetland aquatic resource in the project area. Hydrologic support for delineated wetlands appears to be provided by a seasonally elevated water tables associated with the Teton River and Packsaddle Creek. Many depressional areas and relic fluvial channels are located along Packsaddle Creek. Due to Packsaddle Creek's flashy seasonal flow fluctuations, most of these depressional areas have insufficient hydrologic support to meet wetland criteria.

LITERATURE CITED

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- Lichvar, R.W., N.C. Melvin, M.L. Butterwick, and W.N. Kirchner. 2012. *National Wetland Plant List indicator rating definitions*. U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory ERDC/CRREL TR-12-1.
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APPENDIX 1 – EXHIBITS

- 1) Location and Topography, STRR LLC Project Area, Teton County, Idaho.
- 2) Site Characteristics, STRR LLC Project Area, Teton County, Idaho.
- 3) USDA Soil Survey Mapping, STRR LLC Project Area, Teton County, Idaho.
- 4) National Wetland Inventory Mapping, STRR LLC Project Area, Teton County, Idaho.
- 5) Aquatic Resource Delineation Results, STRR LLC Project Area, Teton County, Idaho.

AQUATIC RESOURCE DELINEATION STRR LLC Project Area Teton County, Idaho

PREPARED FOR: STRR LLC

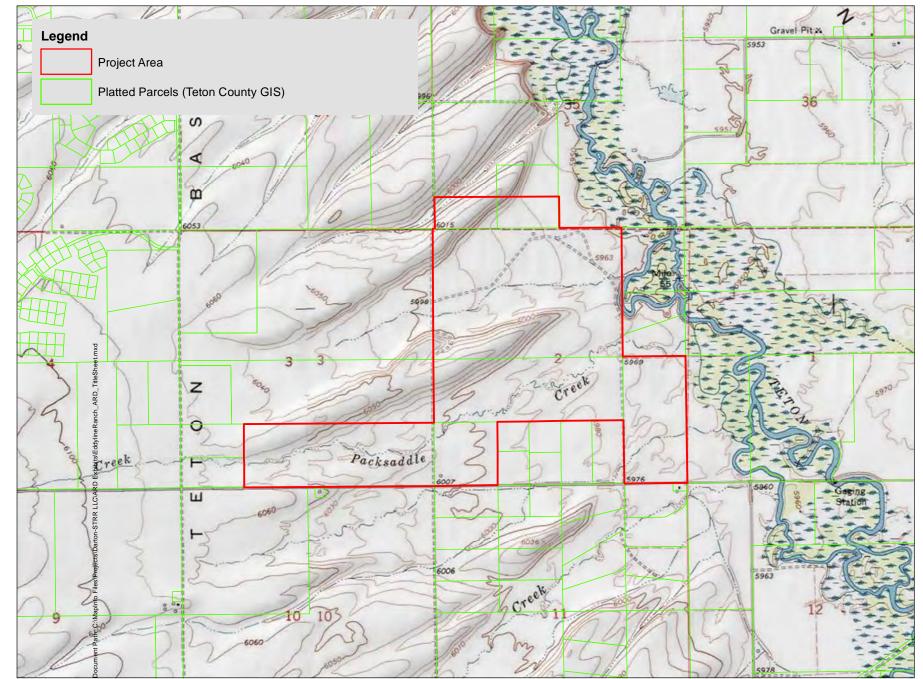
EXHIBIT INDEX

EXHIBIT 1 Title Sheet

EXHIBIT 2 Site Characteristics

USDA Soil Survey Mapping EXHIBIT 3

EXHIBIT 4 National Wetland Inventory Mapping Aquatic Resources Delineation Results EXHIBIT 5







4,000 1,000 2,000 Feet SCALE: 1" = 2,000' UNITS: US FOOT

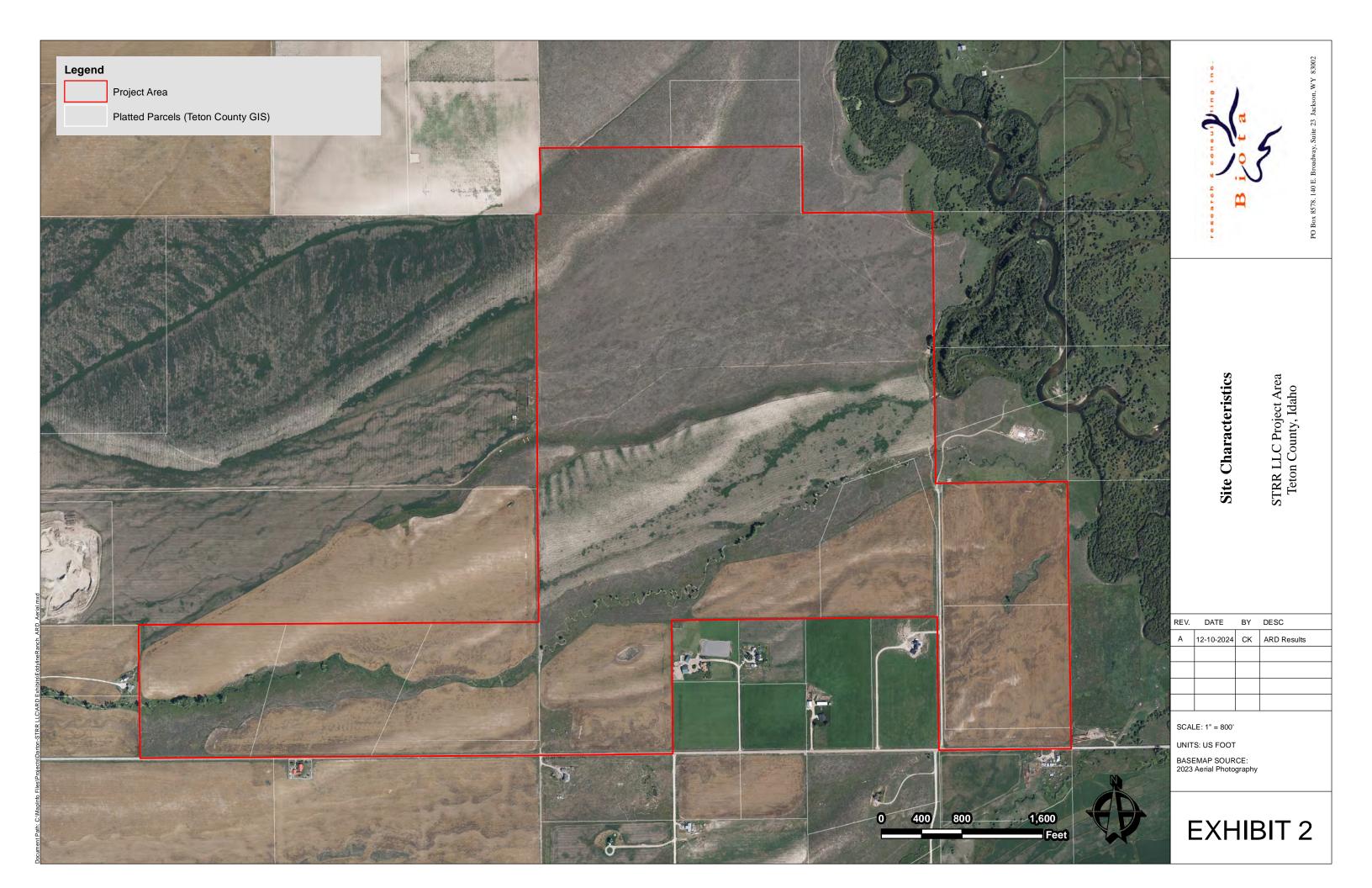
STRR LLC Project Area Teton County, Idaho

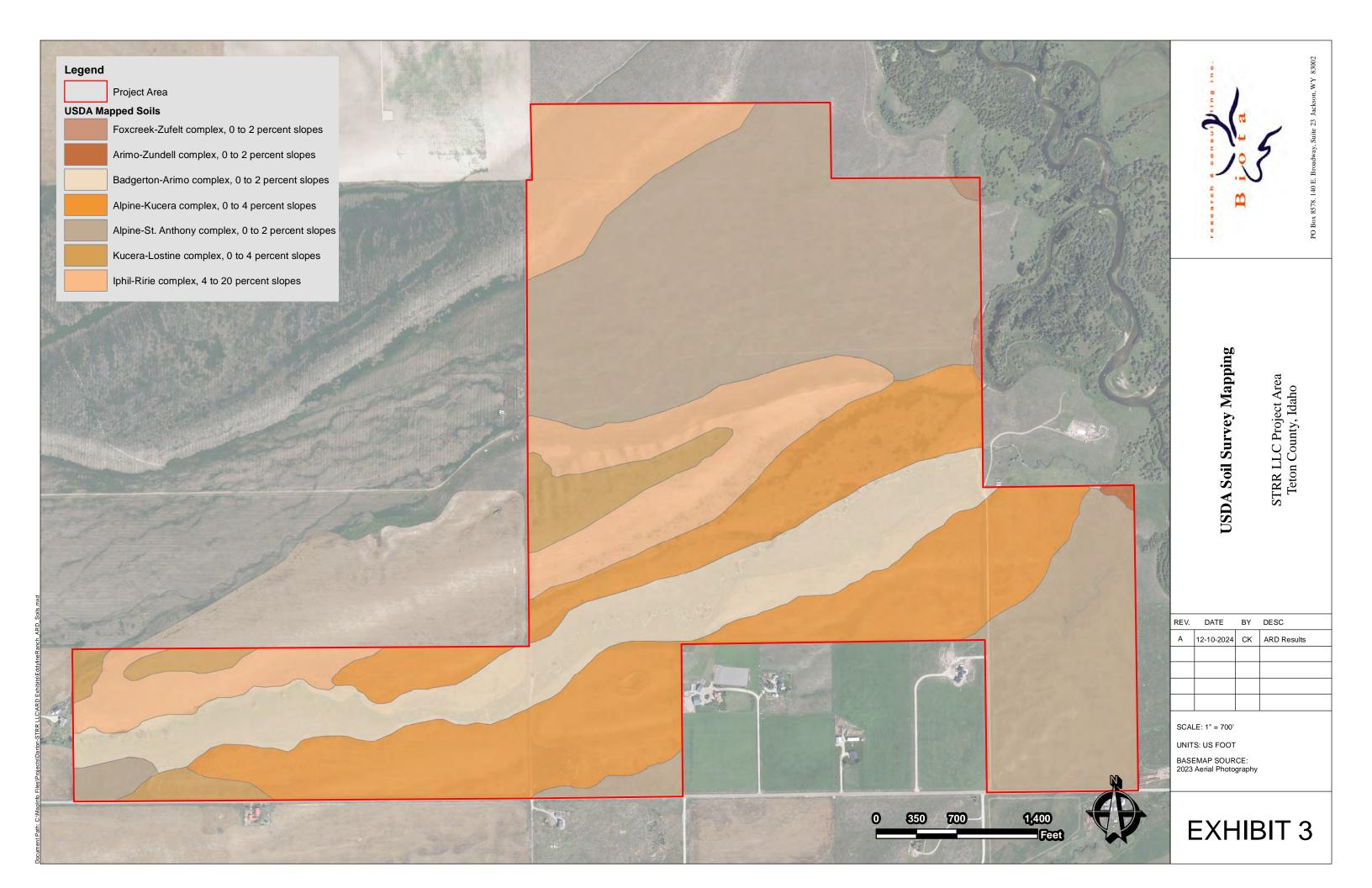
Project Location

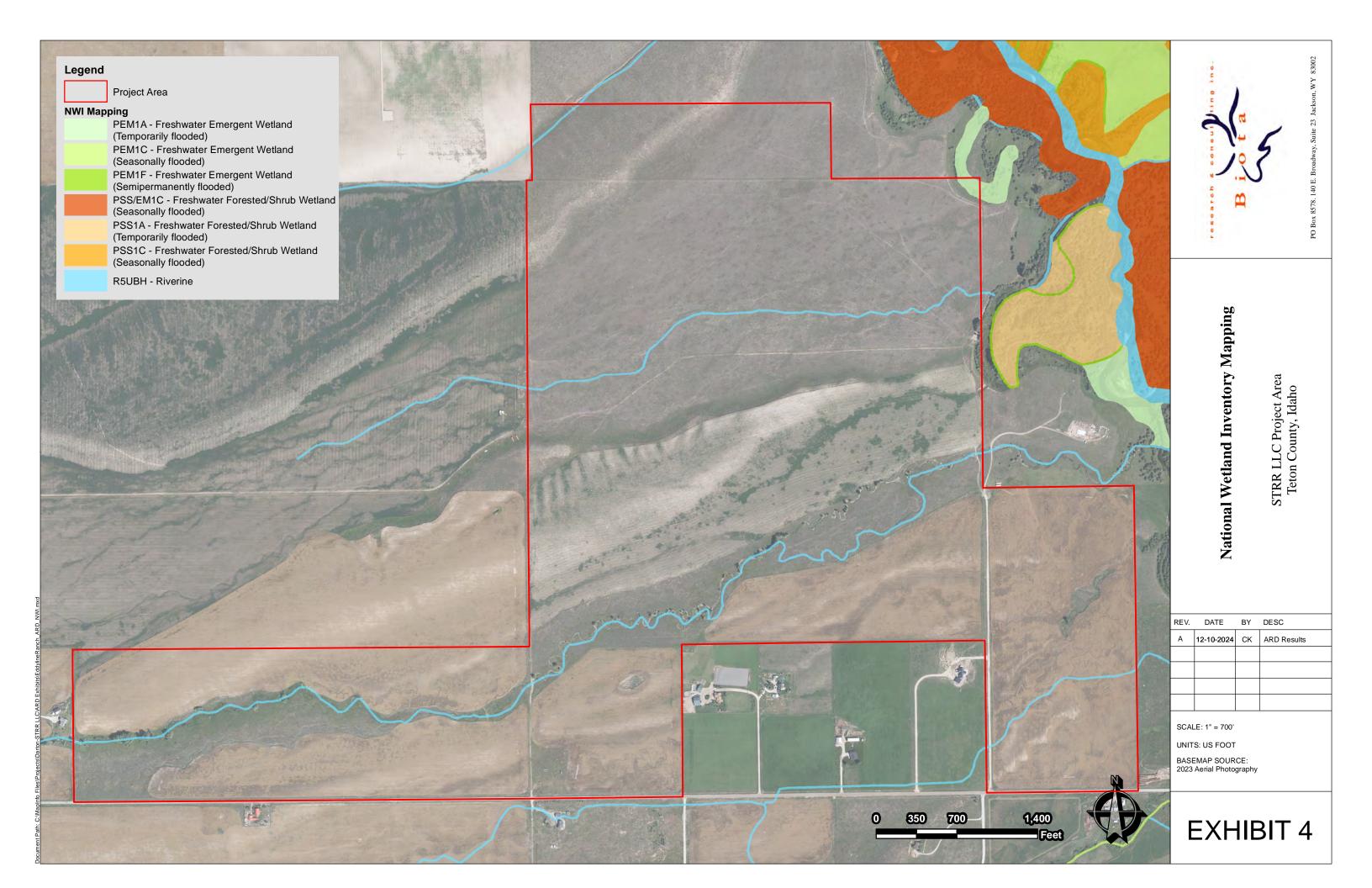
BASEMAP SOURCE: ESRI USA TOPO MAPS

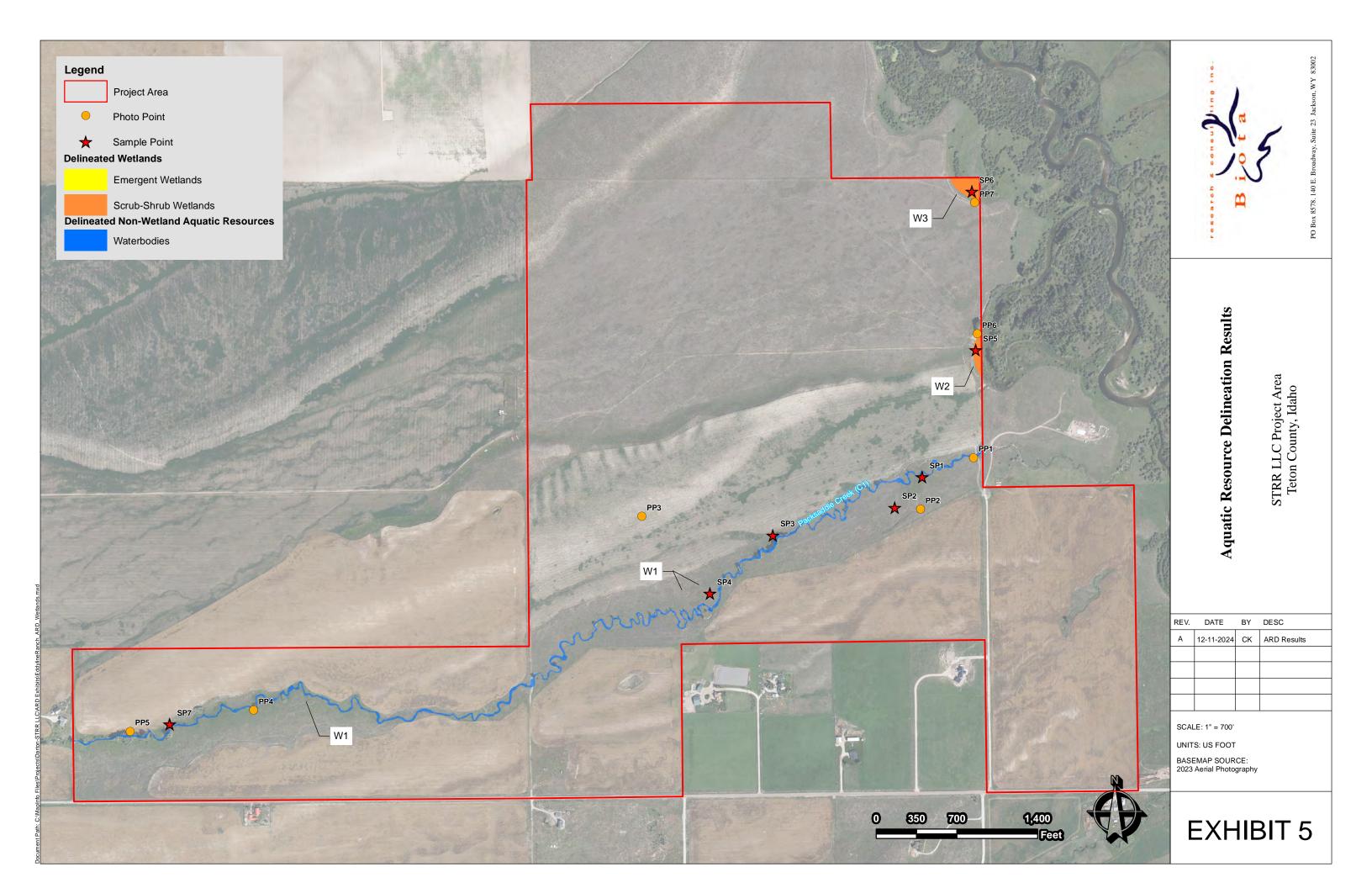
12-10-2024 CK ARD Results

EXHIBIT 1









APPENDIX 2 – CUSTOM NRCS SOIL REPORT

AQUATIC RESOURCE DELINEATION STRR LLC Project Area Teton County, Idaho

PREPARED FOR: STRR LLC

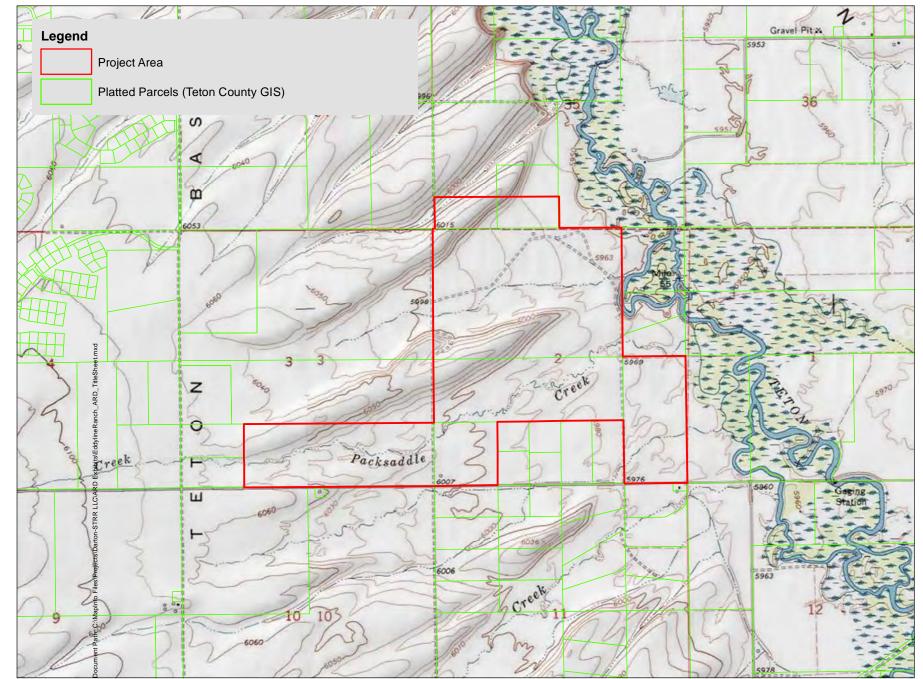
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EXHIBIT 4 National Wetland Inventory Mapping Aquatic Resources Delineation Results EXHIBIT 5







4,000 1,000 2,000 Feet SCALE: 1" = 2,000' UNITS: US FOOT

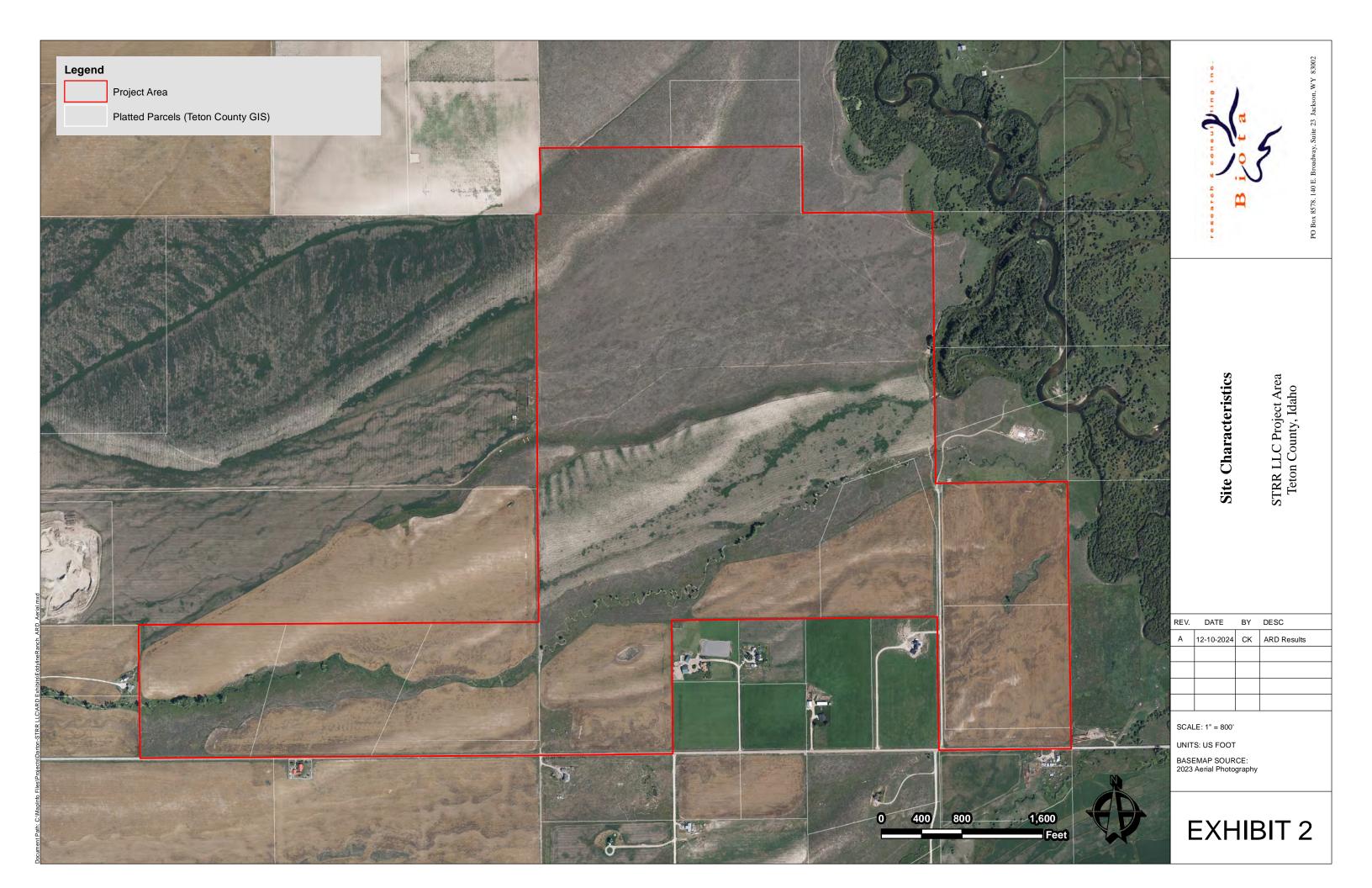
STRR LLC Project Area Teton County, Idaho

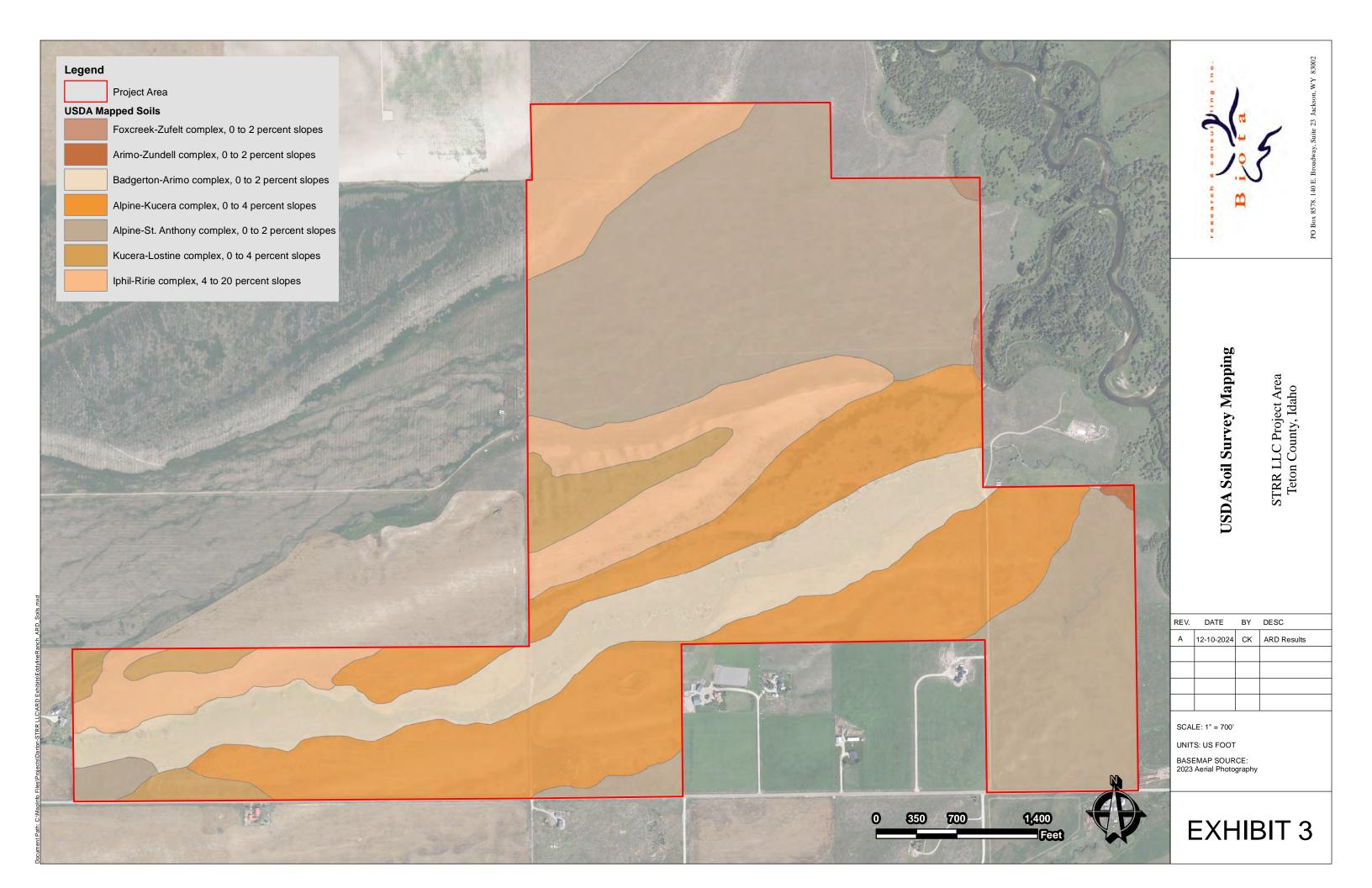
Project Location

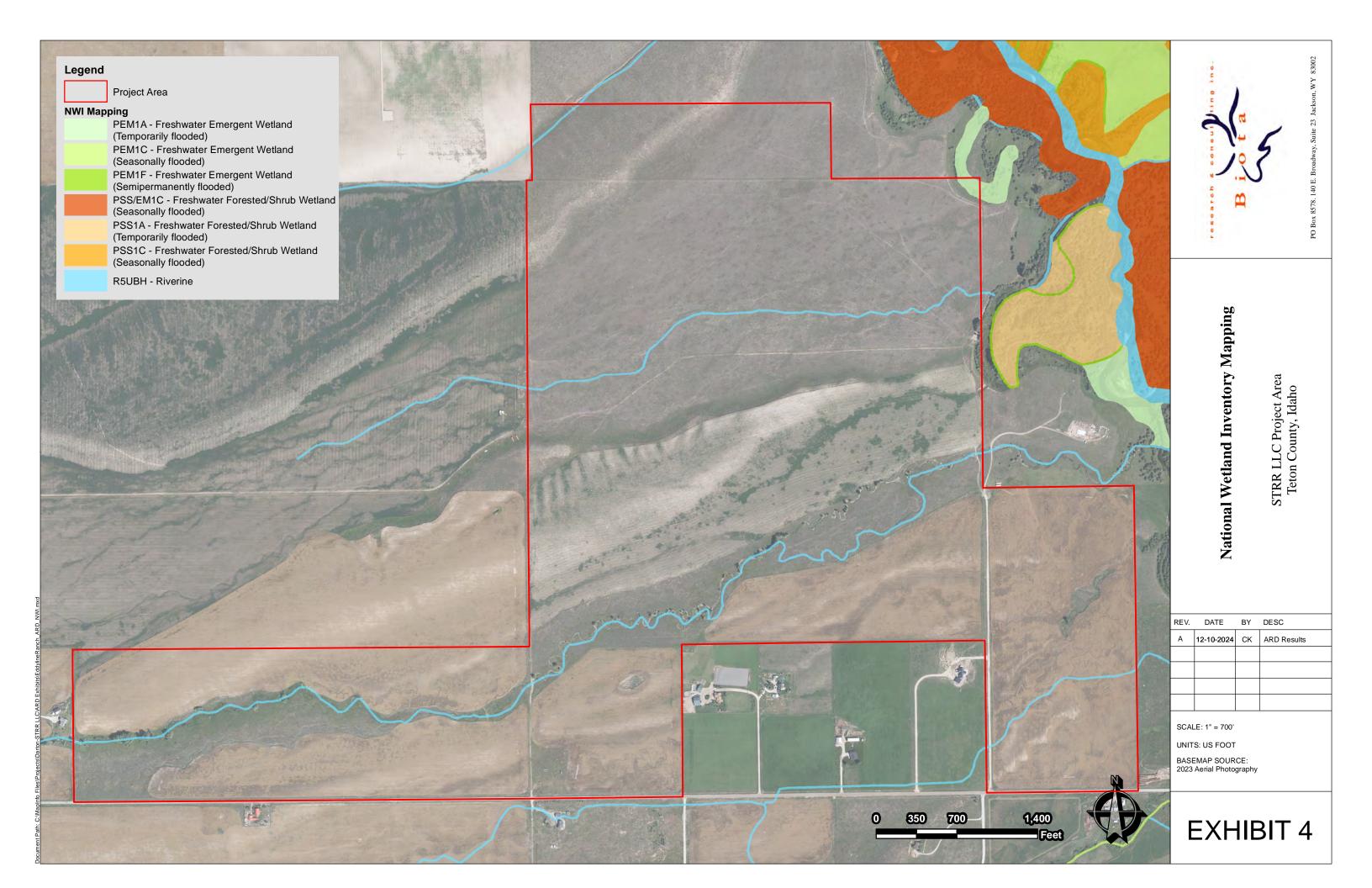
BASEMAP SOURCE: ESRI USA TOPO MAPS

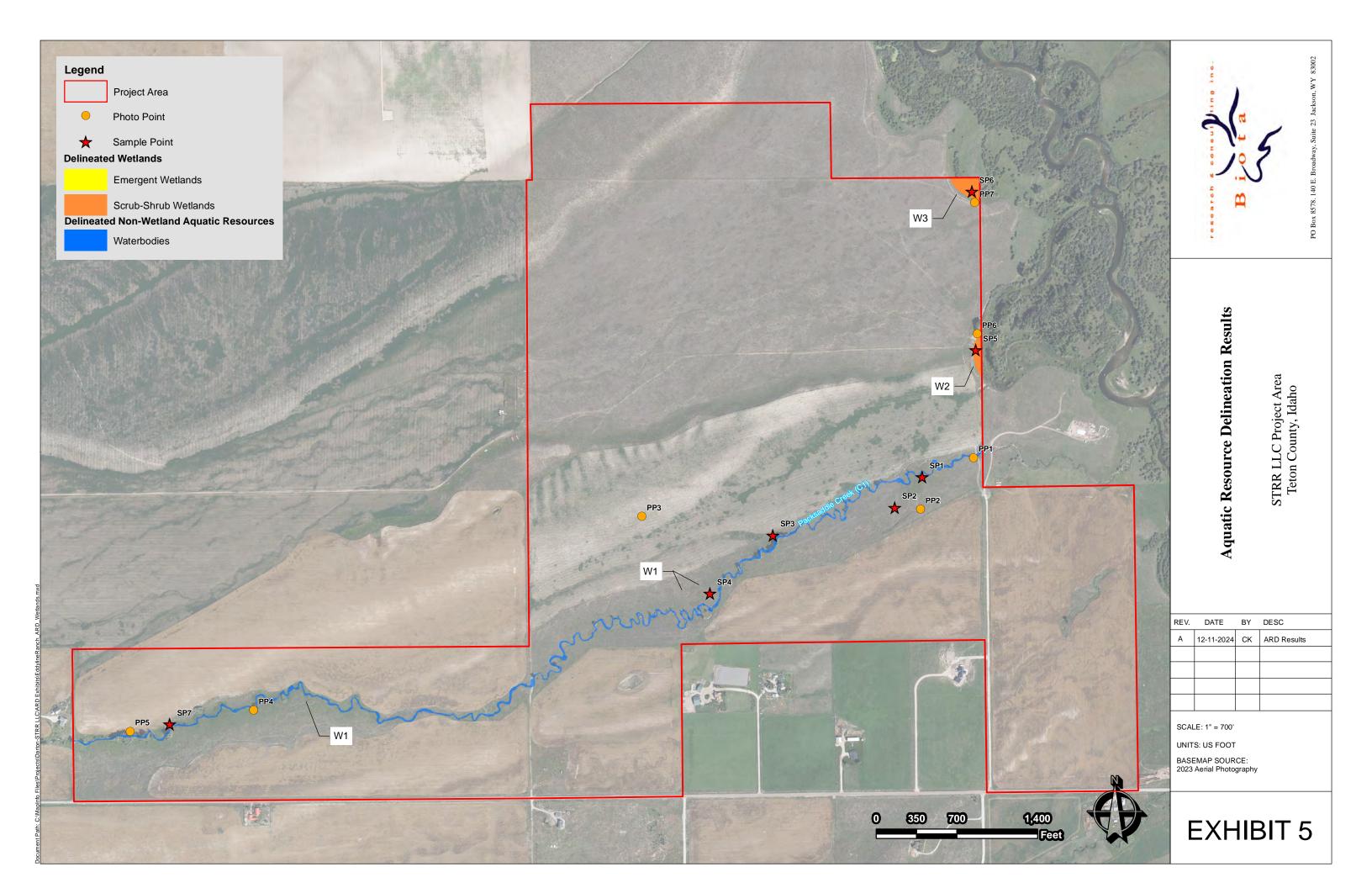
12-10-2024 CK ARD Results

EXHIBIT 1









APPENDIX 3 – WETLAND DETERMINATION DATA FORMS

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cou	nty: Teton		Sampling D	ate: <u>09/27/2024</u>
Applicant/Owner: STRR LLC				State: ID	Sampling Po	oint: SP1
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Ran	ge: SEC 2 T05N F	R44E	
Landform (hillside, terrace, etc.): Floodplain		Local relief (co	oncave, conve	x, none): concave)	Slope (%):
Subregion (LRR/MLRA): LRR E		43.788865	576 Lo	ong: -111.2278170	2 Dat	um: NAD 83
Soil Map Unit Name: Badgerton-Arimo complex, 0 t				NWI cla		
Are climatic / hydrologic conditions on the site typica	al for this time of	of year?	Yes x	No (If no,	explain in Remark	(s.)
Are Vegetation , Soil , or Hydrology						
Are Vegetation , Soil , or Hydrology				lain any answers in	·	
SUMMARY OF FINDINGS – Attach site			•	•	•	features, etc.
Hydrophytic Vegetation Present? Yes X	No		e Sampled Are		<u> </u>	· · · · · · · · · · · · · · · · · · ·
Hydric Soil Present? Yes	No X		n a Wetland?		No X	
Wetland Hydrology Present? Yes	No X					
Remarks: Site located adjacent to creek channel. VEGETATION – Use scientific names of	f plants.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test	worksheet:	
1. 2.	_			Number of Domina	•	2 (A)
3.	_			Are OBL, FACW, o	•	2 (A)
4				Total Number of D Across All Strata:	ominant Species	2 (B)
		=Total Cover		Percent of Domina	nt Species That	(5)
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW, o	•	100.0% (A/B)
1						
2.	_			Prevalence Index		delen ber bereit
3. 4.				Total % Cove	$\frac{\text{Pr OT:}}{0} \frac{\text{IVIL}}{\text{x 1}} =$	ultiply by: 0
5.	_			FACW species	60 x 2 =	120
·		=Total Cover		FAC species	110 x 3 =	330
Herb Stratum (Plot size: 1 meter)		•		FACU species	15 x 4 =	60
Poa pratensis	35	No	FAC	UPL species	0 x 5 =	0
2. Juncus balticus	60	Yes	FACW	Column Totals:	185 (A)	510 (B)
3. Phleum pratense	20	No	FAC	Prevalence Inde	ex = B/A =	2.76
4. Artemisia ludoviciana	15	No	FACU	Unduant, dia Vana	tation la disetens	
Potentilla gracilis Elymus trachycaulus		Yes No	FAC FAC	Hydrophytic Vege	for Hydrophytic V	
7		110	<u> </u>	X 2 - Dominance	, , ,	egetation
8.	_			3 - Prevalence		
9.					cal Adaptations ¹ (F	
10.				data in Rem	arks or on a sepa	rate sheet)
11					on-Vascular Plants	
	185	=Total Cover			ydrophytic Vegeta	,
Woody Vine Stratum (Plot size:)			¹ Indicators of hydri be present, unless		
2.				Hydrophytic	,	
% Bare Ground in Herb Stratum		=Total Cover		Vegetation	'es X No	
						<u> </u>
Remarks:						

SOIL Sampling Point: SP1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc2 Type¹ (inches) Color (moist) % Color (moist) Texture Remarks 0-20 10YR 3/2 90 Sandy Sandy loam ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR A, E) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: No redox observed **HYDROLOGY Wetland Hydrology Indicators:** Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2 High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Depth (inches): Yes Water Table Present? Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? Yes No X Yes (includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cou	nty: Teton		Sampling	Date: 09/27	′/2024
Applicant/Owner: STRR LLC				State: ID	Sampling	Point: SI	P2
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Ran	ge: SEC 2 T05N F	 R44E		
Landform (hillside, terrace, etc.): relic channel		Local relief (co	oncave, conve	ex, none): concave		Slope (%):	1
Subregion (LRR/MLRA): LRR E	Lat:			ong: -111.2287282		Datum: NAD	
Soil Map Unit Name: Badgerton-Arimo complex, 0 t	o 2 percent slo				assification: Upl	and	
Are climatic / hydrologic conditions on the site typical			Yes x	No (If no,			
Are Vegetation , Soil , or Hydrology				rcumstances" prese			
Are Vegetation , Soil , or Hydrology				lain any answers in			-
SUMMARY OF FINDINGS – Attach site				-		it features,	etc.
Hydrophytic Vegetation Present? Yes	No X	Is the	Sampled Ar	ea			
Hydric Soil Present? Yes	No X		n a Wetland?		No_X	,	
Wetland Hydrology Present? Yes	No X					_	
Remarks: Site located within relic floodplain channel.							
VEGETATION – Use scientific names o	f plants. Absolute	Dominant	Indicator				
<u>Tree Stratum</u> (Plot size:)	% Cover		Indicator Status	Dominance Test	worksheet:		
1.		· <u></u>		Number of Domina	ant Species Tha	at	
2.				Are OBL, FACW,	or FAC:	1	(A)
3				Total Number of D	ominant Specie	es .	
4		T-1-1 0		Across All Strata:		2	_(B)
Sapling/Shrub Stratum (Plot size:)	=Total Cover		Percent of Domina Are OBL, FACW, of	•	50.0%	(A/B)
1							
2	_			Prevalence Index			
3.				Total % Cove		Multiply by:	-
4 5.				OBL species FACW species	$\frac{0}{0}$ x1		-
o	_	=Total Cover		FACW species	30 x 3		-
Herb Stratum (Plot size: 1 meter)		-10101 00101		FACU species	10 x 4		-
1. Koeleria macrantha	70	Yes	UPL	UPL species	85 x 5		-
2. Poa pratensis	30	Yes	FAC	Column Totals:	125 (A)	555	(B)
3. Lupinus argenteus	5	No	UPL	Prevalence Ind	ex = B/A =	4.44	_
4. Achillea millefolium	10	No	FACU				
5. Artemisia tridentata	10	No	UPL	Hydrophytic Vege			
6.					for Hydrophytic	: Vegetation	
7.					e Test is $>50\%$ e Index is $\leq 3.0^1$		
8. 9.	_				cal Adaptations	1/Provide cuer	ortino
10	_				narks or on a se		Jorning
11		·			on-Vascular Pla		
		=Total Cover			ydrophytic Vege		in)
Woody Vine Stratum (Plot size:)	•		¹ Indicators of hydri			must
1.				be present, unless	disturbed or pro	oblematic.	
2		=Total Cover		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum				•	/es N	lo_X_	
Remarks:							

SOIL Sampling Point: SP2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc2 Color (moist) Type¹ (inches) % Color (moist) Texture Remarks 0-18 10YR 3/2 90 Sandy Fine Sandy Loam ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR A, E) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: **HYDROLOGY Wetland Hydrology Indicators:** Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2 High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Depth (inches): Yes Water Table Present? Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? Yes No X Yes (includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cou	nty: Teton		Sampling D	ate: <u>09/27/2024</u>
Applicant/Owner: STRR LLC				State: ID	Sampling Po	oint: SP3
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Ran	ge: SEC 2 T05N	R44E	
Landform (hillside, terrace, etc.): Relic channel		Local relief (co	oncave, conve	x, none): concav	е	Slope (%):1
Subregion (LRR/MLRA): LRR E	Lat:	43.787521436	63817 Lo	ong: -111.2327415	07495 Dat	um: NAD 83
Soil Map Unit Name: Alpine-Kucera complex, 0 to 4	percent slopes	3		NWI cl	assification: Uplan	d
Are climatic / hydrologic conditions on the site typical	al for this time o	of year?	Yes x	No (If no	explain in Remark	(s.)
Are Vegetation , Soil , or Hydrology				rcumstances" prese		
Are Vegetation , Soil , or Hydrology				lain any answers in		
SUMMARY OF FINDINGS – Attach site			•	-	ŕ	features, etc.
Hydrophytic Vegetation Present? Yes			Sampled Are		<u> </u>	· · · · · · · · · · · · · · · · · · ·
Hydric Soil Present? Yes X	No X		n a Wetland?		No X	
Wetland Hydrology Present? Yes	No X					
Remarks: Site located within relic channel.						
Site located within relic channel.						
VEGETATION – Use scientific names o	f plants.					
T 0: (D) : (Absolute	Dominant	Indicator	.		
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Dominance Test		
2.				Number of Domin Are OBL, FACW,	•	1 (A)
3.				Total Number of D	•	
4.				Across All Strata:		2 (B)
		=Total Cover		Percent of Domin	ant Species That	_
Sapling/Shrub Stratum (Plot size:)			Are OBL, FACW,	or FAC:	50.0% (A/B)
1.						
2. 3.				Prevalence Index Total % Cove		ultiply by:
				OBL species	0 x1=	ultiply by: 0
5.				FACW species	0 x 2 =	0
		=Total Cover		FAC species	45 x 3 =	135
Herb Stratum (Plot size: 1 meter)		•		FACU species	0 x 4 =	0
1. Bromus inermis	90	Yes	UPL	UPL species	100 x 5 =	500
2. Elymus trachycaulus	15	No	FAC	Column Totals:	145 (A)	635 (B)
3. Koeleria macrantha	10	No	UPL	Prevalence Inc	lex = B/A =	4.38
Poa pratensis 5.	30	Yes	FAC	Hydrophytic Vea	etation Indicators	
	_				t for Hydrophytic V	
7.					e Test is >50%	ogotation
8.				3 - Prevalence	e Index is ≤3.0¹	
9.					ical Adaptations ¹ (F	
10					narks or on a sepa	
11	_				lon-Vascular Plants	
Was da Visa Observer (District	145	=Total Cover			lydrophytic Vegeta	,
Woody Vine Stratum (Plot size:1.)				ric soil and wetland s disturbed or prob	
2.			—— 	•	and turbed or prob	omano.
-		=Total Cover		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum				-	Yes No	X
Remarks:						

SOIL Sampling Point: SP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 3/2	85	10YR 4/6	2	D	M	Sandy	Fine Sandy Loam
8-24		· · · · · · · · · · · · · · · · · · ·	_					coarse alluvium
							•	
		 ·					-	_
	-						•	
							-	
		,						
		,						
¹ Type: C=C	oncentration, D=Dep	letion, RM:	=Reduced Matrix, C	S=Cove	ered or Co	ated Sa	and Grains. ² L	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	rwise n	oted.)		Indica	ators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		2	cm Muck (A10) (LRR A, E)
Histic Ep	oipedon (A2)		Sandy Red	dox (S5)			Iro	on-Manganese Masses (F12) (LRR D)
Black Hi	stic (A3)		Stripped M	latrix (Se	6)		R	ed Parent Material (F21)
Hydroge	n Sulfide (A4)		Loamy Mu	cky Mine	eral (F1) (except	MLRA 1) \/-	ery Shallow Dark Surface (F22)
1 cm Mu	ick (A9) (LRR D, G)		Loamy Gle	yed Mat	trix (F2)		<u> </u>	ther (Explain in Remarks)
	d Below Dark Surface	e (A11)	x Depleted N					
	ark Surface (A12)		Redox Dai				•	
	nosulfide (A18)		Depleted [ators of hydrophytic vegetation and
	lucky Mineral (S1)		Redox Dep	oression	s (F8)			etland hydrology must be present,
2.5 cm N	Mucky Peat or Peat (S2) (LRR (3)				ur	nless disturbed or problematic.
	Layer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Pres	ent? Yes X No
Remarks: Lik	cely legacy redox fror	n past hyd	rologic regime.					
HYDROLC	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	ne is requi	red; check all that	apply)			<u>Secon</u>	ndary Indicators (2 or more required)
Surface	Water (A1)		Water-Sta	ined Lea	ives (B9)	(except	W	ater-Stained Leaves (B9) (MLRA 1, 2
High Wa	iter Table (A2)		MLRA	1, 2, 4A,	and 4B)			4A, and 4B)
Saturation			Salt Crust					rainage Patterns (B10)
	larks (B1)		Aquatic In					ry-Season Water Table (C2)
	nt Deposits (B2)		Hydrogen					aturation Visible on Aerial Imagery (C9)
	posits (B3)		Oxidized F	•		•	• • —	eomorphic Position (D2)
	at or Crust (B4)		Presence					hallow Aquitard (D3)
	osits (B5)		Recent Iro				` '	AC-Neutral Test (D5)
	Soil Cracks (B6) on Visible on Aerial I	maganı (P	Stunted or			(D1) (LF		aised Ant Mounds (D6) (LRR A)
	Vegetated Concave			nannin	terriains)		<u>—</u> "	rost-Heave Hummocks (D7)
		, Gurrace (i	30)				1	
Field Obser			No	Donth /	nahaa).			
Surface Wat				Depth (i	′ –			
Water Table Saturation P				Depth (i	nches): _		Wetland Hydro	ology Present? Yes No X
(includes cap				Deptii (i			Wetiand Hydro	ology Present? Yes No _X
	corded Data (stream	gauge me	onitoring well aeria	l photos	previous	inspec	ions), if available	
Dooding IVE	co. dod Data (stream	gaage, iii	Jimoinig won, acid	Priotos	, provious	порос	, ii avallabie.	
Remarks:								

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cour	nty: Teton		Sampling Date	e: <u>09/27/2024</u>
Applicant/Owner: STRR LLC				State: ID	_ Sampling Point	t: SP4
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Rai	nge: SEC 2 T05N R4	4E	
Landform (hillside, terrace, etc.): Relic channel		Local relief (co	oncave, conv	ex, none): concave	SI	ope (%): 1
Subregion (LRR/MLRA): LRR E	Lat:	43.786151369	97402 L	ong: -111.234837245	123 Datum	: NAD 83
Soil Map Unit Name: Badgerton-Arimo complex, 0 to				NWI class		
Are climatic / hydrologic conditions on the site typica	al for this time o	f year?	Yes X)
Are Vegetation, Soil, or Hydrology				ircumstances" present		
Are Vegetation, Soil, or Hydrology				olain any answers in Re		
SUMMARY OF FINDINGS – Attach site				•	,	atures, etc.
Hydrophytic Vegetation Present? Yes X	No	Is the	Sampled A	rea		
Hydric Soil Present? Yes X	No		n a Wetland1		No	
Wetland Hydrology Present? Yes X	No					
Remarks:		•				
Site located within swale adjacent to creek.						
VEGETATION – Use scientific names of	f nlante					
VEGETATION – Use scientific flames of	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wo	orksheet:	
1	_			Number of Dominan	t Species That	
2.				Are OBL, FACW, or	FAC:	1 (A)
3.				Total Number of Dor	ninant Species	4 (D)
4		=Total Cover		Across All Strata:		(B)
Sapling/Shrub Stratum (Plot size:)	- Total Cover		Percent of Dominant Are OBL, FACW, or	•	100.0% (A/B)
1.	— ′			, ,		` ′
2.				Prevalence Index w	orksheet:	
3	_			Total % Cover	of: Multip	oly by:
4	_			OBL species	0 x 1 =	0
5					85 x 2 =	170
Llowb Stratum (Diet size) 4 meter)	-	=Total Cover		FAC species FACU species	$\frac{70}{0}$ $x 3 =$	<u>210</u> 0
Herb Stratum (Plot size: 1 meter) 1. Juncus balticus	85	Yes	FACW	UPL species	0	0
Poa pratensis	30	No	FAC		155 (A)	380 (B)
3. Agrostis stolonifera	15	No	FAC	Prevalence Index	= B/A = 2.	45
4. Elymus trachycaulus	15	No	FAC			
5. Potentilla gracilis	10	No	FAC	Hydrophytic Vegeta	ation Indicators:	
6				X 1 - Rapid Test fo		etation
7.				X 2 - Dominance T		
8.				X 3 - Prevalence II	ndex is ≤3.0° il Adaptations¹(Pro	vida avanartina
9 10.					rks or on a separat	
11.					-Vascular Plants ¹	,
	_	=Total Cover			Irophytic Vegetation	n ¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric		, , ,
1	_			be present, unless d		
2	_			Hydrophytic		
**D 0 11 11 16: :		=Total Cover		Vegetation		
% Bare Ground in Herb Stratum				Present? Yes	s_X_ No	_
Remarks:						

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth
Matrix
Redox Features
(inches)
Color (moist)
Remarks

Берит	IVIALITX		Redu	x realui				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/2	85	10YR 4/6	7	D	М	Sandy	Fine Sandy Loam
								<u> </u>
							-	
							-	
							•	
1							-	2
	ncentration, D=Deple					oated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicat	ole to all L	RRs, unless othe	rwise n	oted.)		Ind	licators for Problematic Hydric Soils ³ :
Histosol ((A1)		Sandy Gle	yed Mat	rix (S4)			2 cm Muck (A10) (LRR A, E)
Histic Ep	ipedon (A2)		Sandy Red	lox (S5)				Iron-Manganese Masses (F12) (LRR D)
Black His			Stripped M		3)			Red Parent Material (F21)
	n Sulfide (A4)		Loamy Mu			(evcent	MIRA 1)	Very Shallow Dark Surface (F22)
	, ,					(cxccpt		-
	ck (A9) (LRR D, G)	(4.4.1)	Loamy Gle	•	` '			Other (Explain in Remarks)
	Below Dark Surface	(A11)	x Depleted N					
	rk Surface (A12)		Redox Dar					
Iron Mon	osulfide (A18)		Depleted D	ark Sur	face (F7)		³ Inc	dicators of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Redox Dep	ression	s (F8)			wetland hydrology must be present,
2.5 cm M	lucky Peat or Peat (S	2) (LRR G	<u> </u>					unless disturbed or problematic.
Postrictivo I	.ayer (if observed):					1		
	ayer (ii observed).							
Type:	-L\·						Uhadala Oali Da	
Depth (in	cnes):		_				Hydric Soil Pr	resent?
Remarks:								
HYDROLO	GY							
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of or	e is requir	ed; check all that a	(ylqqa			Sec	condary Indicators (2 or more required)
Surface \	Nater (A1)		Water-Stai	ned Lea	ves (B9)	(except		Water-Stained Leaves (B9) (MLRA 1, 2
	ter Table (A2)				and 4B)	•		4A, and 4B)
			Salt Crust		and 4D)			,
Saturatio					(D40)			Drainage Patterns (B10)
Water Ma			Aquatic Inv					Dry-Season Water Table (C2)
Sedimen	t Deposits (B2)		Hydrogen					_Saturation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Oxidized R	hizosph	eres on L	_iving R	oots (C3) X	Geomorphic Position (D2)
Algal Mat	t or Crust (B4)		Presence	of Reduc	ced Iron ((C4)		Shallow Aquitard (D3)
Iron Depo	osits (B5)		Recent Iro	n Reduc	tion in Ti	lled Soil	s (C6) X	FAC-Neutral Test (D5)
Surface S	Soil Cracks (B6)		Stunted or	Stresse	d Plants	(D1) (LF	RR A)	Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial Im	nagery (B7	Other (Exp	lain in R	emarks)	` , `		Frost-Heave Hummocks (D7)
	Vegetated Concave							
		Odridoc (B					1	
Field Observ	/ations:							
Surface Water	er Present? Yes	·			nches): _			
Water Table	Present? Yes	:	No	Depth (i	nches):			
Saturation Pr	esent? Yes	- 	No	Depth (i	nches):		Wetland Hy	drology Present? Yes X No
(includes cap				,	-			
	corded Data (stream	gauge, mo	nitoring well aeria	photos	previous	s inspec	tions), if available	e:
20001100 1100	.c. soa bata (ottodili)	,go, 1110		, p. 10100,	Picvious	opoo	, availabil	~.
Domoris:								
Remarks:								

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cou	nty: Teton		Samp	oling Date:	10/30/2	024
Applicant/Owner: STRR LLC				State: ID	Samp	ling Point:	SP5	5
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Rai	nge: SEC 2 T05N	R44E			
Landform (hillside, terrace, etc.): Floodplain		Local relief (co	oncave, conv	ex, none): concav	/e	Slop	oe (%):	1
Subregion (LRR/MLRA): LRR E	Lat:	43.791872863	30941 L	.ong: <u>-111.226012</u>	24919	Datum:	NAD 83	3
Soil Map Unit Name: Foxcreek-Zufelt complex, 0 to 2	percent slope	es		NWI c	lassification:	Upland		
Are climatic / hydrologic conditions on the site typical	for this time of	of year?	Yes X	No (If no	o, explain in F	Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	Are "Normal C	ircumstances" pres	ent? Yes	X No	o	
Are Vegetation , Soil , or Hydrology	naturally pro	blematic? (If needed, exp	olain any answers ir	n Remarks.)			
SUMMARY OF FINDINGS – Attach site n	_		g point lo	ations, transe	cts, impor	tant feat	ures, e	tc.
Hydrophytic Vegetation Present? Yes X	No	Is the	Sampled A	ea				
	No		n a Wetland		X No			
Wetland Hydrology Present? Yes X	No							
Remarks: Site located within relic channel/floodplain of the Tet VEGETATION – Use scientific names of								
Trac Charles (Plat size)	Absolute	Dominant	Indicator	Daminana Tari				
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status	Dominance Test				
2.	_			Number of Domin		Inat	4 (/	A)
3.				Total Number of		ecies		
4.				Across All Strata			4 (B)
		=Total Cover		Percent of Domir	•			
Sapling/Shrub Stratum (Plot size: 2 meter 1. Salix lucida	_) 50	Yes	FACW	Are OBL, FACW	, or FAC:	10	0.0% (/	A/B)
Salix lucida Salix exigua	30	Yes	FACW	Prevalence Inde	x workshee	<u> </u>		
3.			17.011	Total % Cov		Multiply	by:	
4.				OBL species	105		105	
5.				FACW species	80	x 2 =	160	
	80	=Total Cover		FAC species	30		90	
Herb Stratum (Plot size: 1 meter)	90	Yes	OBL	FACU species	0	x 4 =	0	
Carex utriculata Poa pratensis	30	Yes	FAC	UPL species Column Totals:		x 5 = \) ;		B)
3. Hippuris vulgaris	15	No	OBL	Prevalence In	`	<i>'</i>	——`	-,
4.							,	
5				Hydrophytic Ve				
6.	_			1 - Rapid Tes		-	ation	
7. 8.	_			X 2 - Dominand				
		· · · · · · · · · · · · · · · · · · ·		4 - Morpholog			de sunnar	rtinc
10.					marks or on			9
11.				5 - Wetland I	Non-Vascula	r Plants ¹		
	135	=Total Cover		Problematic	Hydrophytic \	√egetation ¹	(Explain))
Woody Vine Stratum (Plot size:	_)			¹ Indicators of hydbe present, unles				ıst
2.				Hydrophytic				
% Bare Ground in Herb Stratum		=Total Cover		Vegetation	Yes X	No	_	
Remarks:								

SOIL Sampling Point: SP5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc² Type¹ (inches) Color (moist) % Color (moist) Texture Remarks 0-10 10YR 3/2 85 Mucky Loam/Clay Clay Loam 10-24 Coarse alluvium ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR A, E) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) X Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Remarks: Could not excavate beyond 10". Soil considered hydric do to a hydrophytic plant community and wetland hydrology indicators. **HYDROLOGY Wetland Hydrology Indicators:** Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2 High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Depth (inches): Yes Water Table Present? Depth (inches):

Depth (inches):

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

ENG FORM 6116-9, SEP 2024

Yes

Saturation Present?

Remarks:

(includes capillary fringe)

Yes X

No

Wetland Hydrology Present?

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cou	nty: Teton		Sampling Da	ite: 10/30/2024
Applicant/Owner: STRR LLC				State: ID	Sampling Po	int: SP6
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Rai	nge: SEC 2 T05N R	44E	
Landform (hillside, terrace, etc.): floodplain		Local relief (co	oncave, conv	ex, none): concave		Slope (%):1
Subregion (LRR/MLRA): LRR E	Lat:	43.795642418	36253 L	ong: -111.22607838	6128 Datu	ım: NAD 83
Soil Map Unit Name: Foxcreek-Zufelt complex, 0 to 2					ssification: PEM1/	Α
Are climatic / hydrologic conditions on the site typical	for this time of	f year?	Yes X	No (If no,	explain in Remark	s.)
Are Vegetation , Soil , or Hydrology				ircumstances" preser		
Are Vegetation , Soil , or Hydrology	_			olain any answers in F		·
SUMMARY OF FINDINGS – Attach site n	<u>—</u>			-		eatures, etc.
Hydrophytic Vegetation Present? Yes X	No	Is the	Sampled A	rea		
Hydric Soil Present? Yes X	No		n a Wetland		(No	
	No					
Remarks: Site located within relic channel/floodplain of the Tet	ton River.					
VEGETATION – Use scientific names of	Absolute	Dominant	Indicator			
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test v	vorksheet:	
1				Number of Domina	nt Species That	
2				Are OBL, FACW, o	r FAC:	4 (A)
3.				Total Number of Do	ominant Species	4 (D)
4		=Total Cover				4 (B)
Sapling/Shrub Stratum (Plot size: 2 Meter		=10tai 00vci		Percent of Domina Are OBL, FACW, o		100.0% (A/B)
1. Salix geyeriana	- ′ 45	Yes	FACW	, , ,	_	, (, ,
Dasiphora fruticosa	20	Yes	FAC	Prevalence Index	worksheet:	
3.				Total % Cover	r of: Mul	Itiply by:
4				OBL species	30 x 1 =	30
5				FACW species	45 x 2 =	90
(5)	65	=Total Cover		FAC species	205 x 3 =	615
Herb Stratum (Plot size: 1 Meter)	25	No	FAC	FACU species	0 x 4 = _	0
Phleum pratense Agrostis stolonifera	35 75	No Yes	FAC FAC	UPL species Column Totals:	0 x 5 =	735 (B)
Carex nebrascensis	30	No	OBL	Prevalence Inde		2.63
Plantago major	40	Yes	FAC	1 Tovaloneo mac	= B// =	2.00
5. Poa pratensis	35	No	FAC	Hydrophytic Vege	tation Indicators:	:
6.	_				for Hydrophytic Ve	
7.				X 2 - Dominance	Test is >50%	
8.				X 3 - Prevalence	Index is ≤3.0 ¹	
9.					cal Adaptations ¹ (P	
10	_				arks or on a separ	
11					on-Vascular Plants	
	215	=Total Cover			drophytic Vegetat	
Woody Vine Stratum (Plot size:	_)			¹ Indicators of hydrid be present, unless		
2.						
		=Total Cover		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum				-	es <u>X</u> No_	<u></u>
Remarks:						

SOIL Sampling Point: SP6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc² Color (moist) % Type¹ (inches) Color (moist) Texture Remarks Clay Loam 0-6 10YR 2/2 90 Loamy/Clayey 6-24 10YR 3/2 85 10YR 4/6 Loamy/Clayey 3 D M Clay Loam 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 Soils³: Histosol (A1) Sandy Gleyed Matrix (S4) 2 cm Muck (A10) (LRR A, E) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and Iron Monosulfide (A18) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** No Yes

Remarks:

HYDROLOGY							
Wetland Hydrology Indica							
Primary Indicators (minimur	n of one is requir	Secondary Indicators (2 or more required)					
Surface Water (A1)		Wat	er-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2			
High Water Table (A2)		N	/ILRA 1, 2, 4A, and 4B)	4A, and 4B)			
Saturation (A3)		Salt	Crust (B11)	Drainage Patterns (B10)			
Water Marks (B1)		Aqua	atic Invertebrates (B13)	Dry-Season Water Table (C2)			
Sediment Deposits (B2))	Hydi	rogen Sulfide Odor (C1)	X Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)		Oxid	lized Rhizospheres on Living Roc	X Geomorphic Position (D2)			
Algal Mat or Crust (B4)		Pres	sence of Reduced Iron (C4)	Shallow Aquitard (D3)			
Iron Deposits (B5)		Rec	ent Iron Reduction in Tilled Soils	X FAC-Neutral Test (D5)			
Surface Soil Cracks (B6)		Stun	ited or Stressed Plants (D1) (LRF	Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Aerial Imagery (B7)		Othe	er (Explain in Remarks)	Frost-Heave Hummocks (D7)			
Sparsely Vegetated Cor	ncave Surface (B	8)			_		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	No	Depth (inches):				
Saturation Present?	Yes	No	Depth (inches):	Wetland Hydrology Present? Yes X No			
(includes capillary fringe)	·						
Describe Recorded Data (st	ream gauge, mo	nitoring well	, aerial photos, previous inspection	ons), if av	ailable:		
Remarks:							

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-CO-R

Project/Site: STRR LLC Project Area		City/Cou	nty: Teton		Samplin	g Date:	11/11/2024
Applicant/Owner: STRR LLC		-	State: ID	Samplin	g Point:	SP7	
Investigator(s): Chase Krumholz & Kent Werlin		Section, T	ownship, Ran	ge: SEC 3 T05N	R44E		
Landform (hillside, terrace, etc.): Floodplain		Local relief (c	oncave, conve	ex, none): concav	/e	Slope	e (%): <u>1</u>
Subregion (LRR/MLRA): LRR E	Lat:	43.78318821	39984 L	ong: <u>-111.252620</u>	51717	Datum:	NAD 83
Soil Map Unit Name: Badgerton-Arimo complex, 0 t	o 2 percent slo	oes		NWI c	lassification: U	oland	
Are climatic / hydrologic conditions on the site typica	al for this time o	of year?	Yes X	No (If no	o, explain in Rei	marks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	Are "Normal C	rcumstances" pres	ent? Yes	X No	
Are Vegetation , Soil , or Hydrology	naturally pro	blematic? (If needed, exp	lain any answers ir	n Remarks.)		
SUMMARY OF FINDINGS – Attach site			g point loc	ations, transe	cts, importa	nt featu	ıres, etc.
Hydrophytic Vegetation Present? Yes	No X	Is the	Sampled Ar	ea			
Hydric Soil Present? Yes	No X		n a Wetland?		No	X	
Wetland Hydrology Present? Yes	No X						
Remarks: Site located on floodplain of creek. VEGETATION – Use scientific names o	f plants.						
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator	Dominance Tes	t workshoot:		
Tree Stratum (Plot size:) 1.	% Cover	Species?	Status				
2.				Number of Domin	•		1 (A)
3.				Total Number of	Dominant Spec	ies	
4				Across All Strata	•		2 (B)
Capling/Church Churchura (Diet sings C Mateu		=Total Cover		Percent of Domir	•		00/ (A/D)
Sapling/Shrub Stratum (Plot size: 2 Meter 1. Salix exigua	<u> </u>	Yes	FACW	Are OBL, FACW	, or FAC:	50	.0% (A/B)
2.		100	17.077	Prevalence Inde	x worksheet:		
3.				Total % Cov		Multiply	by:
4.				OBL species	0 x	1 =	0
5				FACW species			40
Harb Christian (Diet sine) 4 Mater	70	=Total Cover		FAC species			0
Herb Stratum (Plot size: 1 Meter) 1. Bromus inermis	90	Yes	UPL	FACU species UPL species			<u>10</u> 50
Rosa woodsii	10	No	FACU	Column Totals:	170 (A)		30 (B)
3.				Prevalence In	dex = B/A =	3.71	``
4	_						
5				Hydrophytic Veg			
6 7.					st for Hydrophyt ce Test is >50%	_	tion
0					ce Test is >50% ce Index is ≤3.0		
	·				gical Adaptation		e supporting
10	·				marks or on a s		
11.				5 - Wetland I	Non-Vascular P	lants ¹	
	100	=Total Cover		Problematic	Hydrophytic Ve	getation ¹	(Explain)
Woody Vine Stratum (Plot size:1.)			¹ Indicators of hydbe present, unles			
2.				Hydrophytic			
% Bare Ground in Herb Stratum		=Total Cover		Vegetation Present?	Yes	No_X	_
Remarks:					_ 		

SOIL Sampling Point: SP7 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc² Type¹ (inches) Color (moist) % Color (moist) Texture Remarks Fine Sandy Loam 0-24 10YR 3/2 95 Fine Sandy Loam ²Location: PL=Pore Lining, M=Matrix. ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) (LRR A, E) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) (LRR D) Black Histic (A3) Stripped Matrix (S6) Red Parent Material (F21) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (F22) 1 cm Muck (A9) (LRR D, G) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron Monosulfide (A18) Depleted Dark Surface (F7) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Remarks: **HYDROLOGY Wetland Hydrology Indicators:** Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2 High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Depth (inches): Yes Water Table Present? Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? Yes No X Yes

(includes capillary fringe)

Remarks:

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

APPENDIX 4 – PHOTOGRAPHIC DOCUMENTATION



Photograph P1. Photograph depicting the topographic setting of sample point SP1, looking southeast.



Photograph P2. Photograph depicting the soil pit and profile for sample point SP1.



Photograph P3. Photograph depicting the topographic setting of sample point SP2, looking south.



Photograph P4. Photograph depicting the soil pit and profile for sample point SP2.



Photograph P5. Photograph depicting the topographic setting of sample point SP3, looking north.



Photograph P6. Photograph depicting the soil pit and profile for sample point SP3.



Photograph P7. Photograph depicting the topographic setting of sample point SP4, looking northeast.



Photograph P8. Photograph depicting the soil pit and profile for sample point SP4.



Photograph P9. Photograph depicting the topographic setting of sample point SP5, looking northeast.



Photograph P10. Photograph depicting the soil pit and profile for sample point SP5.



Photograph P11. Photograph depicting the topographic setting of sample point SP6, looking northeast.



Photograph P12. Photograph depicting the soil pit and profile for sample point SP6.



Photograph P13. Photograph depicting the topographic setting of sample point SP7, looking northeast.



Photograph P14. Photograph depicting the soil pit and profile for sample point SP7.



Photograph P15. Photograph depicting the view from photo point PP1, looking west.



Photograph P16. Photograph depicting the view from photo point PP2, looking west.



Photograph P17. Photograph depicting the view from photo point PP3, looking east.



Photograph P18. Photograph depicting the view from photo point PP4, looking west.



Photograph P19. Photograph depicting the view from photo point PP5, looking south.



Photograph P20. Photograph depicting the view from photo point PP6, looking south.



Photograph P21. Photograph depicting the view from photo point PP7, looking northwest.