# Request for Approved Jurisdictional Determination for Rolling Meadows El Paso County, Colorado

#### **Prepared for:**

Pueblo U.S. Army Corps of Engineers, Regulatory Field Office 201 West 8th Street, Suite 350 Pueblo, CO 81003

#### On Behalf of:

The Landhuis Company 212 N Wahsatch Ave #301 Colorado Springs, CO, 80903

#### **Prepared by:**



707 17<sup>th</sup> Street, Suite 3150 Denver, CO 80202 Contact: Justin Apfel

**December 13, 2022** 



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To whom this may concern,

Matrix Design Group, Inc. (Matrix) is submitting this request for an Approved Jurisdictional Determination (AJD) on behalf of the Landhuis Company for aquatic resources associated with six unnamed drainages on the Rolling Meadows property (Property) located in El Paso County, Colorado. The Property is approximately 1,869 acres and is located south of Drennan Road and north of the Grand Mountain School. Matrix visited the Property on October 12, 2022 and December 5, 2022, to evaluate the characteristics of the unnamed drainages and their potential connection to downstream waters subject to Clean Water Act (CWA) Section 404 jurisdiction. In the following request, we provide background on the Property location, field methodology, and details on the characteristics of the unnamed drainages and our evaluation of the potential jurisdictional status of aquatic resources on the Property. Please refer to the figures in Appendix A for a depiction of the Property and representative images in Appendix B.

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#### 1.0 Location

The Property is approximately 1,869-acres and is located southeast of Colorado Springs, approximately 3.5 miles southeast of the Colorado Springs Airport. The Property is situated within Section 1, 12 and 13, Township 15 South, and Range 65 West. The approximate center of the primary drainage feature, Unnamed Drainage 1, within the Property is in UTM Zone 13S, NAD83; 533224.33m E, 4290806.97m N; Latitude 38.764447, Longitude -104.617576; U.S. Geological Survey (USGS) Colorado Springs, CO Quadrangle. The Property is located within Hydrologic Unit Code (HUC) 11020303, an approximately 928 square mile watershed. Based on National Weather Service 30-year precipitation data, Colorado Springs receives 15.91 inches of annual precipitation on average with 13.14 inches per year as rain and 2.77 inches per year as snow.

Bradley Road runs east to west through the approximate center of the Property and two unnamed drainage features are conveyed under the road through culverts. The Property is currently undeveloped and has historically been used for grazing.

#### 2.0 Project Applicant and Consultant

#### 2.1 Applicant

The Landhuis Company Jeff Mark 212 N. Wwahsatch Ave, Suite 301 Colorado Springs, CO 80903 jmark@landhuisco.com (719) 635-3200

#### 2.2 Consultant

Matrix Design Group, Inc. Justin Apfel 707 17<sup>th</sup> Street, Suite 3150 Denver, CO 80202 justin.apfel@matrixdesigngroup.com (757) 817-4267

#### 3.0 Assessment Methods

Matrix staff originally visited a portion of the Property on May 13-14 and August 7-8, 2021, to evaluate the characteristics and potential surface or subsurface connections of one drainage located in the northern section of the Property, north of Bradley Road. The methodology and results of the original site visit can be found in the Wetland Assessment and Delineation Report in Appendix D. Matrix conducted additional site visits on October 12, 2022, and December 5, 2022 to evaluate the characteristics and potential surface or subsurface connections of the six unnamed drainages located throughout the Property to known or expected CWA jurisdictional Waters of the U.S. (WOTUS). Prior to conducting field-based assessments, Matrix reviewed current and historic aerial imagery (Google Earth, 2022), current and historic USGS topographic maps, National Oceanic and Atmospheric Administration National Weather Service Weather

Forecast Office (NOAA, 2022), Natural Resources Conservation Service Web Soil Survey (Figure 5; NRCS, 2022), and US Fish and Wildlife Service (USFWS) National Wetlands Inventory and US Geological Survey (USGS) National Hydrography Dataset (Figure 4; NHD and NWI; USGS, 2022 and USFWS, 2022).

Drainage features were evaluated to characterize areas with defined bed and bank and identify manmade or natural breaks in the drainage features, if present, to determine if a hydrologic connection existed with downstream WOTUS. Matrix evaluated potential wetlands using the United States Army Corps of Engineers (USACE) 1987 Wetlands Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coasts Region (Version 2.0) (Regional Supplement) (USACE, 2008a).

During the field investigation, plant species were recorded to assess vegetation communities, the area was inspected for indicators of wetland hydrology, and the soils were inspected for indicators of hydric conditions. The 2020 National Wetland Plant List (NWPL) website, Version 3.2 (Lichvar, et al., 2020) was used to determine the indicator status of plant species. Taxonomy of plant species follows Lichvar, et al. (2016) and the NRCS PLANTS Database (United States Department of Agriculture [USDA] NRCS, 2017). At those sites where the vegetation, soil, and hydrology criteria were met, the site was identified as a wetland and categorized following suggestions of Cowardin, et al. (1979).

#### 4.0 Results

#### 4.1 Background Review

Based on the historic aerials and topographic maps, there are no obvious or significant land use or topology changes since the earliest aerial imagery record of 1999 (Google, 2022). According to the National Wetland Inventory and National Hydrology Database, six drainages extend through the Property. All six drainages are shown as intermittent streams on the USGS Corral Bluffs and Fountain NE quadrangles and by the NHD (USGS 2022). The USFWS NWI classifies the drainages as Riverine – Intermittent, Streambed Temporarily Flooded (R4SBA; USFWS 2020).

#### 4.2 Land Use

The land use within the Property is primarily undisturbed grasslands with small patches of upland scrub/shrub communities. A housing development exists southwest of the Property with undisturbed grasslands in all other directions.

#### 4.3 Aquatic Resources

Six unnamed drainages (Unnamed Drainage 1, Unnamed Drainage 2, Unnamed Drainage 3, Unnamed Drainage 4, Unnamed Drainage 5, and Unnamed Drainage 6) are located on the larger 1,869-acre Property. Small depressional features and a detention basin with an earthen dam were also observed on the Property during the site visit. Vegetation, hydrology, and soils throughout the Property are described in greater detail in the following sections.

#### 4.3.1 Vegetation

Two distinct vegetation communities were observed within the Property: upland grasslands within the drainage channels and adjacent uplands and Palustrine Emergent Wetlands (PEM) associated with small

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depressional features. A riparian corridor was not observed surrounding the drainages within the Property. The vegetation community in the uplands extended into the drainage features and was mostly comprised of upland species. The wetland vegetation community types are based on the Cowardin, et al. (1979) classification system (Cowardin, 1979). Please refer to Appendix B for representative photographs of the vegetation observed within the Property.

Vegetation within the Property has been practically undisturbed by the lack of access and activities within the Property. The drainage channels are almost entirely vegetated with upland species, except for the small depressions. The dominant species within the drainage channels include blue grama (*Bouteloua gracilis*, No Indicator [NI]), western wheatgrass (*Pascopyrum smithii*, Facultative Upland [FACU]), and kochia (*Bassia scoparia*, Facultative [FAC]). Only subtle differences in dominate vegetation species were observed between the drainage channels and adjacent uplands which were dominated by blue grama, fetid marigold (*Dyssodia papposa*, NI), winterfat (*Krascheninnikovia lanata*, NI), and rubber rabbitbrush (*Ericnameria nauseosa*, NI). Depressional features observed within the property are sparsely vegetated with a narrow emergent fringe. Dominant species within the depressions include mountain rush (*Juncus arcticus* ssp. *littoralis*, Facultative Wetland [FACW]), vine mesquite (*Panicum* obtusum, FACU), common spikerush (*Eleocharis palustris*, Obligate [OBL]), barnyardgrass (*Echinochloa crus-galli*, FAC), and Pennsylvania smartweed (*Persicaria pennsylcanicum*, FACW).

#### 4.3.2 Hydrology

The East Fork of Jimmy Camp Creek is an ungauged tributary to the mainstem of Jimmy Camp Creek (JCC). The proposed project is located 1.6 miles from the confluence of JCC and the East Fork of JCC. JCC is considered ephemeral from its headwaters to its crossing at Link Rd, over 3 miles south of the confluence with East Fork JCC. The closest stream gauge in the basin is located on JCC, 1.5 miles upstream of the confluence with Fountain Creek and measures an average flow between 1 and 3 CFS (Kiowa 2015).

Hydrologic studies have been conducted to determine the flows along the East Fork of JCC. Matrix reviewed the effective Federal Emergency Management Agency (FEMA) Flood Insurance Maps (FIS), the 2015 Drainage Basin Planning Study (DBPS), a 2013 memo on low flow estimation for the basin, and Matrix's internal regional regression equations. There are significant inconsistencies between each of these hydrologic studies. A revised study is currently underway for the basin, but the data is not available at this time.

Review of aerial imagery and field observations confirmed the location and extents of all six unnamed drainages, which traverse through the center of the Property and one detention basin, which included a ponding area behind an earthen dam. No culvert connection or overflow structure was observed along the earthen dam during the site visit; however, a vegetated drainage channel was observed downstream of the dam which confluences with Unnamed Drainage 1. No standing water was observed in the detention basin during the site visit. Based on NHD mapping, all drainage headwaters originate east of the Property (Figure 4), and flow, if present, would be conveyed from the northeast to the southwest across the Property, and adjacent lands, before converging with an intermittent stream, Jimmy Camp Creek, east of Marksheffel Road. Fountain Creek is the closest naturally occurring, year-round flowing feature with a continuous ordinary high-water mark (OHWM). It is approximately 13 river miles and approximately 6.5 aerial miles from the downstream end of the Property. The drainages are generally situated within a relatively flat grassland with gentle slopes from east to the southwest and within the mapped 100-year floodplain. The

surrounding landscape is typical of the region, with rolling hills dominated by prairie grassland species. Annual precipitation values for the El Paso County based on 20-year averages (2002 through 2022) are 15.27 inches of rainfall, within the month of October (NOAA, 2022).

At the time of the field assessment, potential flow indicators (e.g., water-stained leaves, drift lines, sediment deposits) within the drainage were not observed and no evidence of recent flows were noted. No surface water, flowing or stagnant, was observed within the drainage channels at the time of the site visit. The drainage channels are fully vegetated and do not contain a defined bed and bank. These drainage channels are largely driven by topographic changes over the landscape, but do not receive flows frequently enough to create OHWM indicators or a defined bed and bank. The unnamed drainages are wide and deep (roughly 40 feet wide and greater than four feet deep), but poorly defined. Several small, actively eroding head cuts were observed along the drainage channels; however, the channel was not well defined upstream or downstream of the head cuts and remained vegetated. The drainages were almost completely vegetated with no defined bed and bank or OHWM. The channels lack consistency and connectivity throughout the Property. OHWM forms can be found in Appendix C.

Several pocket depressions throughout the unnamed drainages support 26 areas of isolated wetlands, including hydrophytic vegetation, hydric soils, and indicators of wetland hydrology. No concentrated flow paths were observed on the downstream ends of the depressions and depressions may sever flows to downstream drainage features in normal years. These depressions were delineated in the field and are shown in Table 1 and on Figure 7A and Figure 7B. Wetland determination forms can be referenced in Appendix C. Though flows were not recently evident in the channel or at the time of the site assessment, nor were they observed on aerial imagery, it is believed that the drainages collect surface runoff from adjacent hillslopes and roadways in addition to direct precipitation. Based on field and aerial imagery observations, it is our professional opinion that the flow regime of the unnamed drainages may best be described as ephemeral, and largely driven by stormwater and overland flows. Table 1 describes the aquatic features found within the Property.

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 Table 1.
 Aquatic Resources Within the Property

Name	Flow Frequency	Flows to	Proximity	More info Needed	Size: Length, width, square feet
Drainage 1	< 3 mo/yr	Jimmy Camp Creek		Yes	13,963 ft, ~40ft wide
Drainage 2	< 3 mo/yr	Jimmy Camp Creek		Yes	918 ft, ~20ft wide
Drainage 3	< 3 mo/yr	Jimmy Camp Creek		Yes	3,795 ft, ~40ft wide
Drainage 4	< 3 mo/yr	Jimmy Camp Creek		Yes	1,305 ft, ~15ft wide
Drainage 5	< 3 mo/yr	Jimmy Camp Creek		Yes	5,243 ft, ~25ft wide
Drainage 6	< 3 mo/yr	Jimmy Camp Creek		Yes	15,586 ft, ~40ft wide
		Total	Drainage Length	within Property	40,810 ft
Wetland 1		Drainage 1	Abutting	Yes	957.23
Wetland 2		Drainage 1	Abutting	Yes	342.50
Wetland 3		Drainage 1	Abutting	Yes	7,014.58
Wetland 4		Drainage 1	Abutting	Yes	1,004.73
Wetland 5		Drainage 1	Abutting	Yes	393.88
Wetland 6		Drainage 1	Abutting	Yes	854.68
Wetland 7		Drainage 1	Abutting	Yes	2,745.70
Wetland 8		Drainage 1	Abutting	Yes	2,128.62
Wetland 9		Drainage 1	Adjacent	Yes	753.57
Wetland 10		Drainage 1	Abutting	Yes	3,186.88
Wetland 11		Drainage 6	Abutting	Yes	5,130.13
Wetland 12		Drainage 1	Abutting	Yes	1,668.00
Wetland 13		Drainage 1	Abutting	Yes	13175.83
Wetland 14		Drainage 6	Abutting	Yes	8,955.15
Wetland 15		Drainage 6	Abutting	Yes	4,240.34
Wetland 16		Drainage 1	Abutting	Yes	366.75
Wetland 17		Isolated – no outlet	Isolated	Yes	22,173.98
Wetland 18		Drainage 1	Abutting	Yes	1,397.86
Wetland 19		Drainage 6	Abutting	Yes	686.02
Wetland 20		Drainage 1	Abutting	Yes	455.03
Wetland 21		Drainage 1	Abutting	Yes	638.37
Wetland 22		Drainage 1	Adjacent	Yes	1,686.31
Wetland 23		Drainage 1	Adjacent	Yes	397.35
Wetland 24		Drainage 1	Abutting	Yes	1,857.29
Wetland 25		Drainage 1	Abutting	Yes	1,596.11
Wetland 26		Isolated – no outlet	Isolated	Yes	2,702.99
			Total Wetla	nds in Property	86,509.88 sf / 1.99 ac

#### 4.3.3 Soils

Based on the NRCS Web Soil Survey for El Paso County, Nevada (NRCS, 2022), the Property contains eight mapped soil units (Figure 5). Descriptions of the mapped soil types are provided below.

- Ascalon sandy loam, 1 to 3 percent slopes Ascalon sandy soils are well drained with low runoff
  potential and moderately high to high permeability. Based on the national hydric soils list, this soil
  is not classified as hydric in El Paso County, Colorado (NRCS, 2022).
- Ascalon sandy loam, 3 to 9 percent slopes Ascalon sandy soils are well drained with medium runoff potential and moderately high to high permeability. Based on the national hydric soils list, this soil is not classified as hydric in El Paso County, Colorado (NRCS, 2022).
- Manzanst clay loam, 0 to 3 percent slopes Manzanst clay soils are well drained and moderately low to moderately high permeability. Based on the national hydric soils list, this soil is not classified as hydric in El Paso County, Colorado (NRCS, 2022).
- Nelson-Tassel fine sandy loam, 3 to 18 percent slopes Nelson-Tassel fine sandy soils are well
  drained with medium runoff potential and moderately low to moderately high permeability. Based
  on the national hydric soils list, this soil is not classified as hydric in El Paso County, Colorado
  (NRCS, 2022).
- Razor-Midway complex Razor-Midway complex soils are well drained with medium runoff
  potential and moderately low to moderately high permeability. Based on the national hydric soils
  list, this soil is not classified as hydric in El Paso County, Colorado (NRCS, 2022).
- Sampson loam, 0 to 3 percent slopes Sampson loam soils are well drained with low runoff potential and moderately high to high permeability. Based on the national hydric soils list, this soil is not classified as hydric in El Paso County, Colorado (NRCS, 2022).
- Tassel fine sandy loam, 3 to 18 percent slopes –Tassel fine sandy soils are well drained with medium runoff potential and moderately high permeability. Based on the national hydric soils list, this soil is not classified as hydric in El Paso County, Colorado (NRCS, 2022).
- Olnest sandy loam, 0 to 3 percent slopes Olnest sandy loam soils are well drained with low runoff
  potential and moderately high to high permeability. Based on the national hydric soils list, this soil
  is not classified as hydric in El Paso County, Colorado (NRCS, 2022).

At the time of the field assessment, soil pits were sampled in various depressions and upland areas, to determine hydric soil indicators. Soils within the pocket depressions tended to be moist, dark in color, with redox depressions throughout the soil profile and upland soil samples tended to be lighter in color, dry and crumbly, with no hydric indicators.

#### 5.0 Wildlife

The Property likely provides habitat for small mammals (rabbits, voles, mice, etc.) and larger mammals such as mule deer, pronghorn, and coyotes. Six pronghorns were observed within the Property during the site visit but were not seen using the detention basin or small depressional wetland features, likely because

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these features did not contain any water. Active prairie dog colonies were also observed on portions of the Property. The Property does not contain habitat for federally listed threatened or endangered species.

#### 6.0 Significant Nexus Evaluation

In implementing the 2008 Rapanos guidance for non-navigable tributaries that are not relatively permanent, Matrix assessed all six unnamed drainages for physical indicators of flow - bed and bank, and OHWM indicators- to identify signs of a direct surface connection, or in absence, to determine if the drainage contributes to the chemical, physical, or biological functions to downstream waters, thus meeting the definition of a "significant nexus." From our field evaluations and review of historic Google Earth imagery, the unnamed drainages do not appear to support a continuous hydrologic connection between upstream and downstream channel segments. It is assumed that much of the precipitation that falls on the Property infiltrates in the undeveloped uplands, while small amounts likely reach the drainage channels as surface runoff. Wetlands were observed in isolated depressional features and may be supported by runoff and direct precipitation. The lack of sufficient duration and volume of flows within the channel may preclude development of in-channel and adjacent wetlands. There is a lack of evident flows within the channel and no defined channel, bed and bank, or OHWM indicators. Based on these observations, Matrix believes that channel flows within the drainage do not connect to lower sections of the drainage in a normal year and the drainages only contain water during major storm events. Further, Matrix believes that flows within the drainages are infrequent and driven by major storm events, and that consequently the drainage may contribute insubstantially to the chemical, physical, and biological integrity of a downstream navigable water.

#### 7.0 Discussion

Matrix evaluated the Property for the presence, location, and extent of aquatic resources and, reviewed available data sources to assist USACE in making a jurisdictional determination. Following field evaluations and review of available aerial imagery, Matrix identified six unnamed drainage features on the Property. The Landhuis Company requests an approved JD of the unnamed drainages, as described above. Please let us know if you need any additional information to complete your review and make this determination. I can be reached at: justin.apfel@matrixdesigngroup.com or 757-817-4267.

Sincerely,

Justin Apfel

Ecologist, Matrix Design Group, Inc.

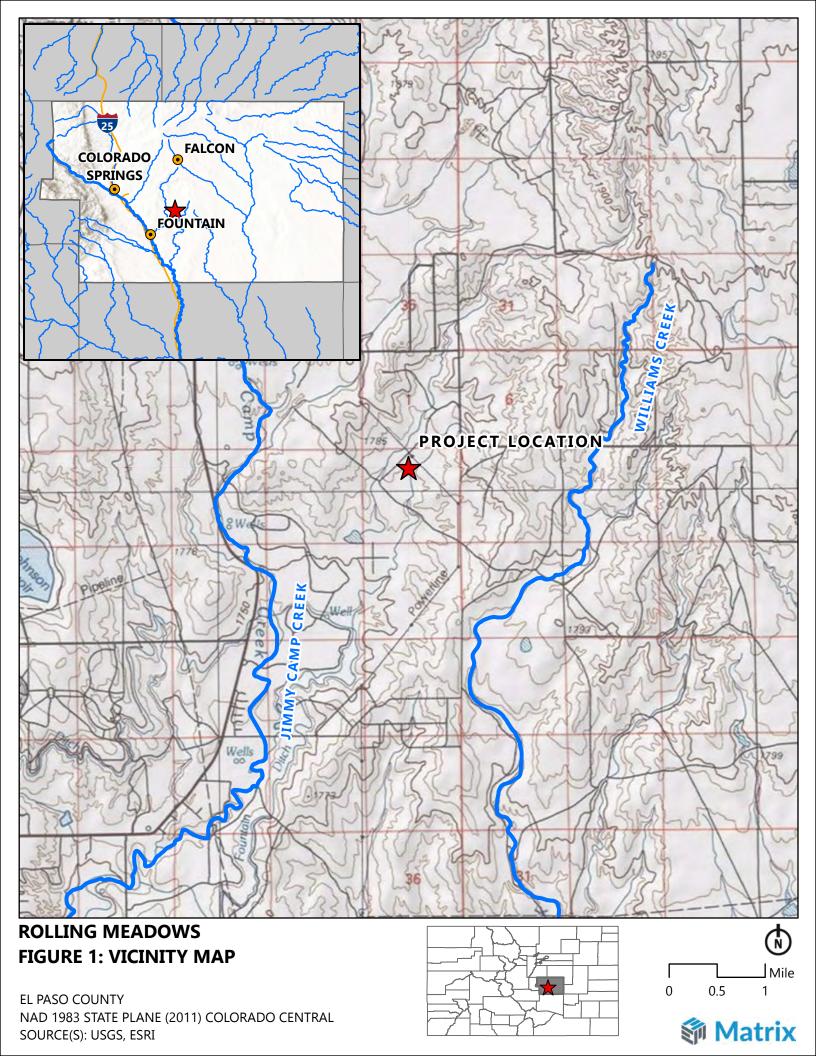
#### 8.0 References

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**Appendix A: Figures** 

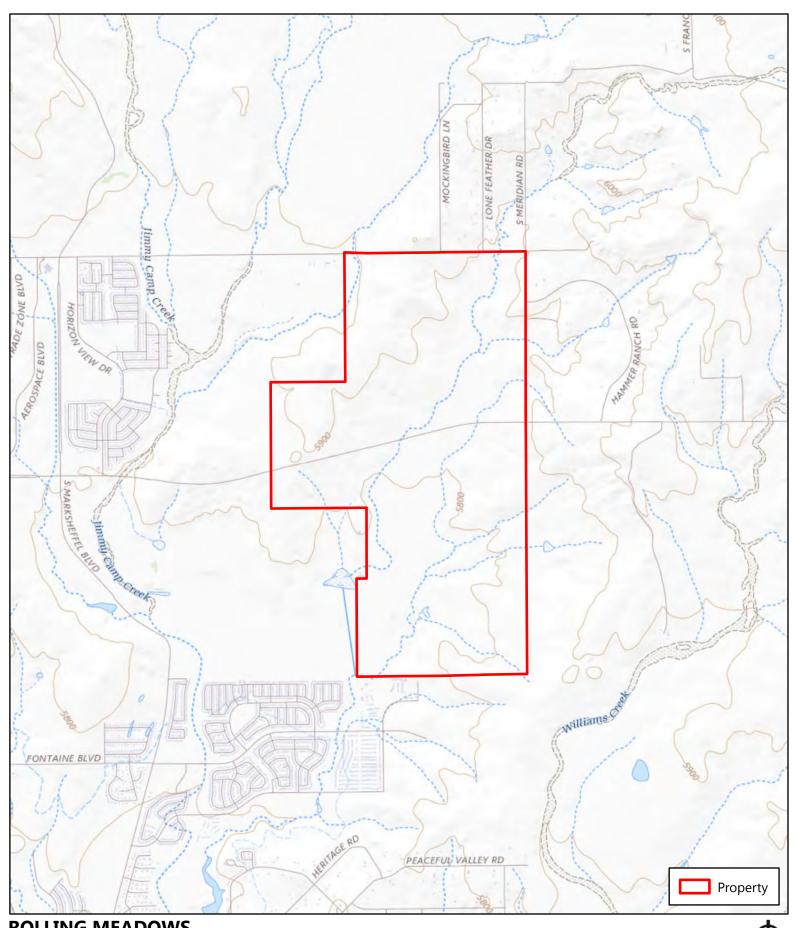




ROLLING MEADOWS FIGURE 2: PROPERTY

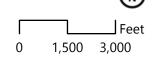
Feet 0 500 1,000



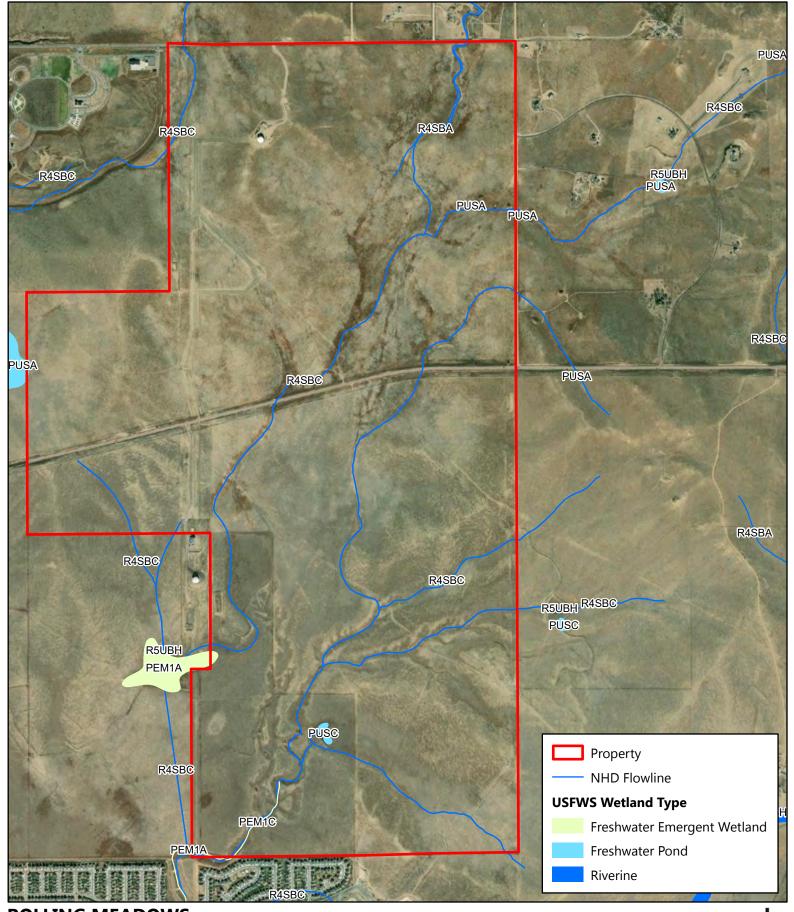


ROLLING MEADOWS
FIGURE 3: TOPOGRAPHIC MAP

EL PASO COUNTY NAD 1983 STATE PLANE (2011) COLORADO CENTRAL SOURCE(S): ESRI, USGS

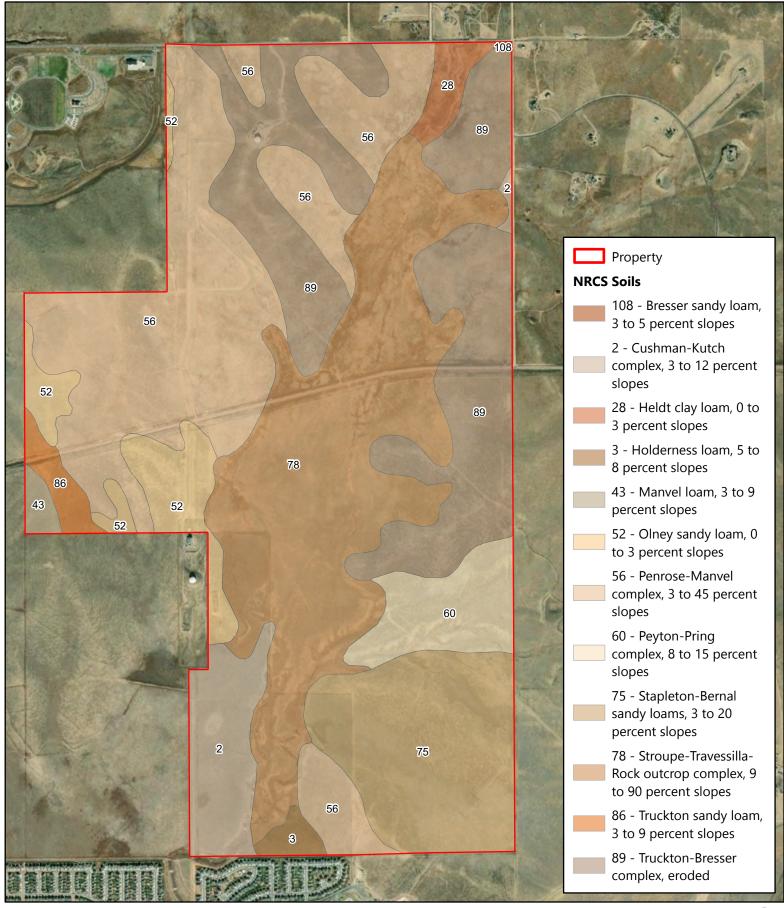




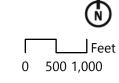


ROLLING MEADOWS
FIGURE 4: USGS NHD AND USFWS NWI

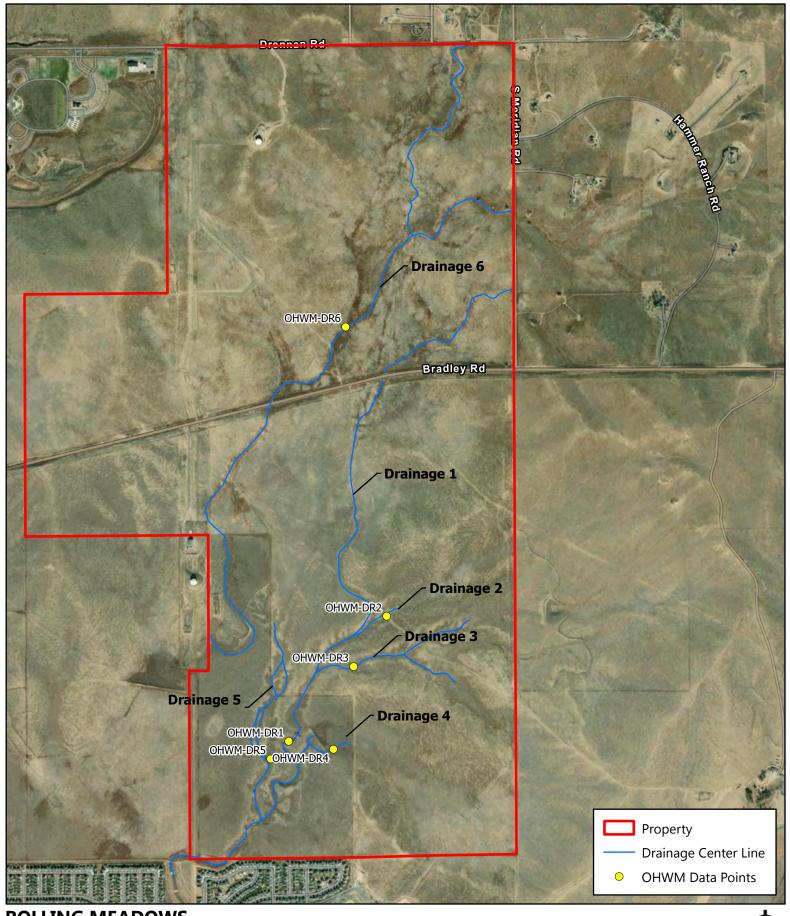




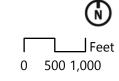
ROLLING MEADOWS FIGURE 5: NRCS SOILS



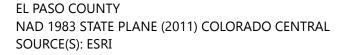


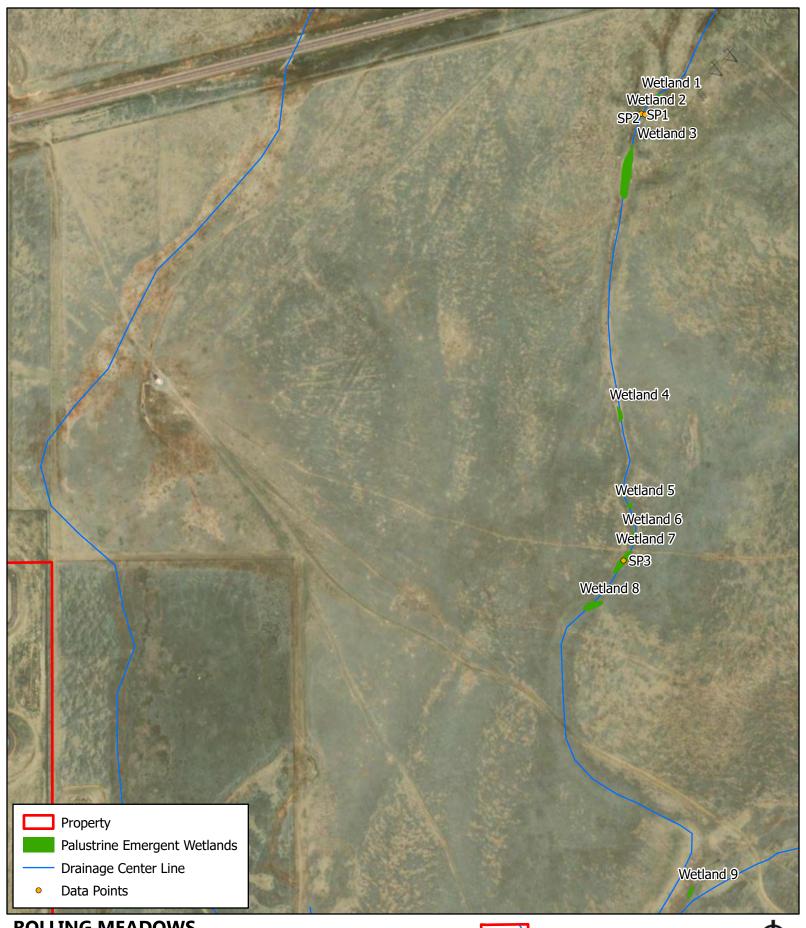


ROLLING MEADOWS
FIGURE 6: SITE FEATURES



**Matrix** 

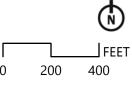




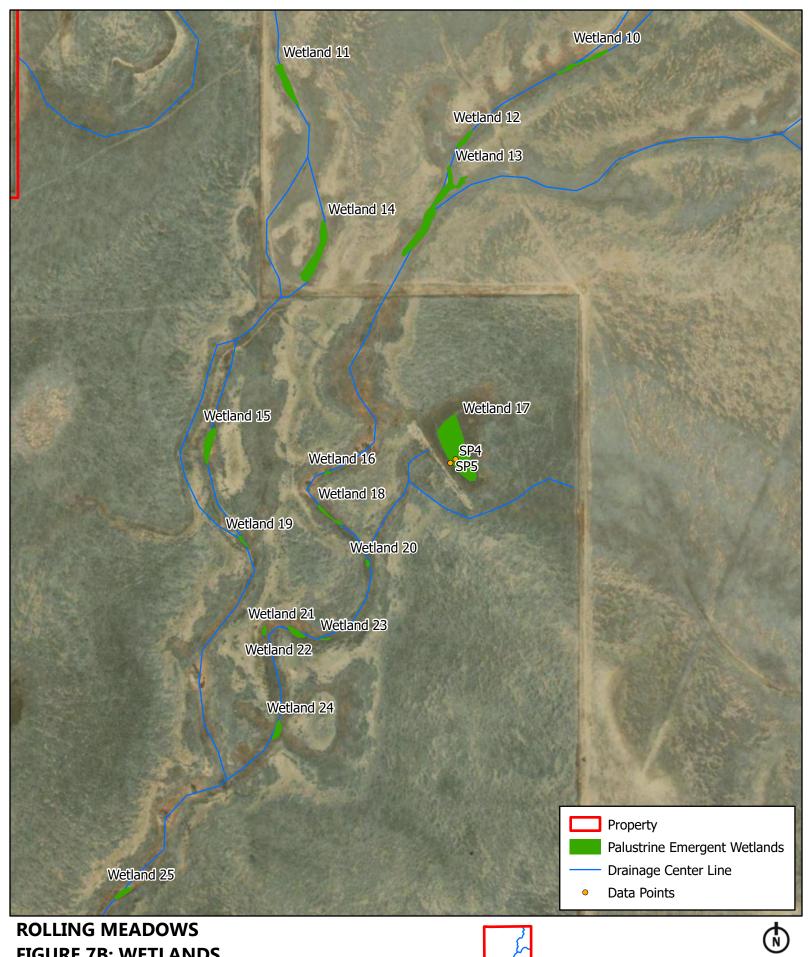
# ROLLING MEADOWS FIGURE 7A: WETLANDS

EL PASO NAD 1983 STATE PLANE (2011) COLORADO CENTRAL SOURCE(S): USGS, ESRI



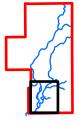


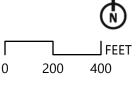




# **FIGURE 7B: WETLANDS**

**EL PASO** NAD 1983 STATE PLANE (2011) COLORADO CENTRAL SOURCE(S): USGS, ESRI







Approved Jurisdictional Determination Request for Rolling Meadows

**Appendix B: Representative Images** 





Photo 1: Standing at the northern side of the Property, looking north, towards the culvert crossing.



Photo 2: Standing away from the northern side of the Property, looking north, towards the culvert crossing.



Photo 3: Representative photo of the channel within the northern section of the Property.



Photo 4: Representative photo of the lack of channel connectivity, throughout the drainage.





Photo 5: Representative of fully vegetated channel, near the center of the Property.



Photo 6: Representative photo of an isolated depression within the channel.



Photo 7: Representative photo of the top soil within the isolated depressions.



Photo 8: Representative photo of an earthen dam, dividing the channel.





Photo 9: Depression within the channel.



Photo 10: Standing in the channel, facing northwest, on the southern end of the Property.



Photo 11: Representative photo of the channel on the south end of the Property.



Photo 12: Representative photo of a rock structure within the channel, near the south end of the Property.

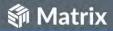




Photo 13: Representative photo of the upland soil profile, throughout the Property.



Photo 14: Representative photo of the isolated wetland depressional soil profile, throughout the Property.

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**Appendix C: Wetland Determination and OHWM 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: Rolling Meadows		City/County: Colorado Springs Sampling Da				10/12/22
Applicant/Owner: The Landhuis Company		State: CO Sampling Point				
Investigator(s): S. O'Brien and J. Apfel		Section, Township, Range: 12, 15S, 65W				
Landform (hillside, terrace, etc.): Depression		Local relief (co	oncave, con	/ex, none): Concave	Slo	ope (%): 1-3
Subregion (LRR): LRR E Lat: 38.7	642625		Long: -	104.6174996	Datum:	NAD 83
Soil Map Unit Name: Stroupe-Travessilla-Rock outcr	op complex, 9	to 90 percent			fication: Upland	
Are climatic / hydrologic conditions on the site typical	I for this time o	f year?	Yes X	No (If no, exp	plain in Remarks.)	
Are Vegetation N , Soil N , or Hydrology N	significantly					
Are Vegetation N , Soil N , or Hydrology N						
SUMMARY OF FINDINGS – Attach site n						atures, etc.
					•	
<u> </u>	No X		Sampled A		No	
	No	***************************************	ir a Wolland	. 103 <u>X</u>		
Remarks:						
Disconnected PEM wetland depression within the cl	hannel.					
VEGETATION – Use scientific names of	plants.					
	Absolute	Dominant	Indicator			
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test wo	rksheet:	
1.				Number of Dominant	•	
2.				Are OBL, FACW, or F		1 (A)
3				Total Number of Dom Across All Strata:	inant Species	1 (B)
··		=Total Cover		Percent of Dominant	Snecies That	(5)
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or F	•	00.0% (A/B)
1.	_ 					
2				Prevalence Index wo		
3.				Total % Cover of		
4				· · · —	0 x 1 =	0
5		-Total Cavar			0 x 2 = 35 x 3 =	0
<u>Herb Stratum</u> (Plot size: 10 sq ft )		=Total Cover			35 x 3 =	255 40
1. Echinochloa crus-galli	85	Yes	FAC		0 x5=	0
Pascopyrum smithii	5	No	FACU		95 (A)	295 (B)
3. Salsola kali	5	No	FACU	Prevalence Index	= B/A = 3.1	1
4.						
5				Hydrophytic Vegetat	ion Indicators:	
6					Hydrophytic Vege	tation
7				X 2 - Dominance Te		
8.				3 - Prevalence Inc		
9.					Adaptations <sup>1</sup> (Prov	
10 11.				5 - Wetland Non-		, oricot,
· · · · · · · · · · · · · · · · · · ·	95	=Total Cover			ophytic Vegetation	ı <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric s		` ' '
1.	_ ·			be present, unless dis		
2.				Hydrophytic		
		=Total Cover		Vegetation		
% Bare Ground in Herb Stratum 5				Present? Yes	XNo	
Remarks: Almost completely barnyeard grass						

SOIL Sampling Point: SP1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc<sup>2</sup> Color (moist) % Type (inches) Color (moist) % Texture Remarks 0-12 10yr 3/1 96 2.5yr 4/8 Loamy/Clayey Dry on top/moist on bottom <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. 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) Red Parent Material (F21) Black Histic (A3) Stripped Matrix (S6) 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) <sup>3</sup>Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Χ Redox throughout. Dry on the surface, compact and moist from 6" and below. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Surface Water (A1) 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) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9)

Algal Mat or Crust (B4) Iron Deposits (B5)  X Surface Soil Cracks (B6)	)	Prese Recer	red Knizospheres on Living ince of Reduced Iron (C4) nt Iron Reduction in Tilled So red or Stressed Plants (D1) (	Shallow Aquitard pils (C6) FAC-Neutral Tes	Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Raised Ant Mounds (D6) (LRR A)			
Inundation Visible on Ae	rial Imagery (B7		(Explain in Remarks)	Frost-Heave Hun	, , ,			
Sparsely Vegetated Con	cave Surface (E	38)		<del></del>				
Field Observations:								
Surface Water Present?	Yes	No X	Depth (inches):	_				
Water Table Present?	Yes	No X	No X Depth (inches):					
Saturation Present? Yes		No X	Depth (inches):	Wetland Hydrology Present?	? Yes X No			
(includes capillary fringe)		•						
Describe Recorded Data (str	eam gauge, mo	onitoring well,	aerial photos, previous inspe	ctions), if available:				
Remarks:								
Large surface cracks within depression within drainage area.								

#### **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: Rolling Meadows		City/County: Colorado Springs Sampling D				e: 10/12/22
Applicant/Owner: The Landhuis Company		State: CO Sampling Point				
Investigator(s): S. O'Brien and J. Apfel		Section, Township, Range: 12, 15S, 65W				
Landform (hillside, terrace, etc.): Slight hillslope		Local relief (co	oncave, con	/ex, none): none	9	Slope (%): 2-5
Subregion (LRR): LRR E Lat: 38.7	642678		Long: -	104.6174788	Datur	n: NAD 83
Soil Map Unit Name: Stroupe-Travessilla-Rock outcr	op complex, 9	to 90 percent	slopes	NWI class	ification: Upland	
Are climatic / hydrologic conditions on the site typica	I for this time o	f year?	Yes X	No (If no, ex	plain in Remarks	.)
Are Vegetation N , Soil N , or Hydrology N		-				
Are Vegetation N , Soil N , or Hydrology N					<del></del>	
SUMMARY OF FINDINGS – Attach site r						eatures, etc.
Hydrophytic Vegetation Present? Yes			Sampled A			
Hydric Soil Present? Yes			n a Wetland		No X	
Wetland Hydrology Present? Yes					- —	
Remarks:		l.			-	
Paired point to SP1_WET, taken adjacent to depres	ssional feature.					
VEGETATION – Use scientific names of	-	<u> </u>		T		
Tree Stratum (Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet:	
1.				Number of Dominant		
2.	_			Are OBL, FACW, or	•	1 (A)
3				Total Number of Don	ninant Species	
4				Across All Strata:	<del>_</del>	(B)
Openition (Obserts Obserts on Colors		=Total Cover		Percent of Dominant	•	400.00/ /A/D
Sapling/Shrub Stratum (Plot size:	_)			Are OBL, FACW, or	-AC:	100.0% (A/B)
1. 2.				Prevalence Index w	orksheet:	
3.				Total % Cover of		iply by:
4.				OBL species	0 x 1 =	0
5.				FACW species	69 x 2 =	138
		=Total Cover		· ·	0 x 3 =	0
Herb Stratum (Plot size: 10 sq ft )					7 x 4 =	28
1. Cirsium undulatum	69	Yes	FACW	· -	24 x 5 =	120 (D)
Dyssodia papposa     Poutolous grapilia		No No	UPL UPL	Column Totals: 1 Prevalence Index	00 (A)	286 (B)
Bouteloua gracilis     Pascopyrum smithii		No No	FACU	Prevalence index	- b/A	.00
5. Centaurea diffusa	4	No	UPL	Hydrophytic Vegeta	tion Indicators	
6. Salsola kali		No	FACU		r Hydrophytic Ve	getation
7.				X 2 - Dominance T	, , ,	,
8.				3 - Prevalence Ir	ıdex is ≤3.0 <sup>1</sup>	
9.					I Adaptations <sup>1</sup> (Pro	
10	_				ks or on a separa	te sheet)
11				5 - Wetland Non-		
	100	=Total Cover		l <del></del>	rophytic Vegetation	` ' '
Woody Vine Stratum (Plot size:	_)			<sup>1</sup> Indicators of hydric s		
1 2.				be present, unless di	sturbed or problet	nalic.
<u> </u>		=Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum		10141 00161		Vegetation Present? Yes	s No	X
Remarks:						
None, Upland.						

SOIL SP2 Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Loc<sup>2</sup> Color (moist) % Type (inches) Color (moist) Texture Remarks 0-12 10yr 4/3 100 Loamy/Clayey Dry and blocky <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: 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) Redox Dark Surface (F6) <sup>3</sup>Indicators of hydrophytic vegetation and Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Yes No Χ Remarks: None. Upland **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) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) X Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) X 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 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

None. Upland

#### **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: Rolling Meadows		City/County: Colorado Springs Sampling Date				: 10/12/22
Applicant/Owner: The Landhuis Company		State: CO Sampling Point:				
Investigator(s): S. O'Brien and J. Apfel		Section, T	ownship, Ra	ange: 12, 15S, 65W		
Landform (hillside, terrace, etc.): Depression		Local relief (co	oncave, con	/ex, none): Concave	SI	ope (%): 0
Subregion (LRR): LRR E Lat:			Long:		Datum	: NAD 83
Soil Map Unit Name: Stroupe-Travessilla-Rock outcr					ification: Upland	l <u> </u>
Are climatic / hydrologic conditions on the site typica	I for this time o	f year?	Yes X	No (If no, ex	«plain in Remarks.)	
Are Vegetation N , Soil N , or Hydrology N				' <u></u>		
Are Vegetation N , Soil N , or Hydrology N						
SUMMARY OF FINDINGS – Attach site r						atures, etc.
Hydrophytic Vegetation Present? Yes			Sampled A			
Hydric Soil Present? Yes			n a Wetland		No	
Wetland Hydrology Present? Yes	No X					
Remarks:		Į.				
Depressional feature. No defined channel leading u	p to or exiting t	he depression	. No water ir	n depression at the time	of the site visit.	
VEGETATION – Use scientific names of	<u> </u>					
<u>Tree Stratum</u> (Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test wo	rksheet	
1.	70 00101	ороског.	Otatao	Number of Dominant		
2.				Are OBL, FACW, or	•	2 (A)
3.	_			Total Number of Don	ninant Species	
4				Across All Strata:	_	2 (B)
		=Total Cover		Percent of Dominant	•	
Sapling/Shrub Stratum (Plot size:	_)			Are OBL, FACW, or	FAC:1	100.0% (A/B)
1. 2.				Prevalence Index w	orksheet:	
3.				Total % Cover of		oly by:
4.				OBL species	0 x 1 =	0
5.				FACW species	20 x 2 =	40
		=Total Cover		FAC species	10 x 3 =	30
Herb Stratum (Plot size: 10 sq ft )					0 x 4 =	0
1. Juncus arcticus		Yes	FACW	UPL species	0 x 5 =	0(
2. Echinochloa crus-galli	10	Yes	FAC		30 (A)	70 (B)
3. 4.				Prevalence Index	= B/A =	33
				Hydrophytic Vegeta	tion Indicators:	
5. 6.					r Hydrophytic Vege	etation
7.				X 2 - Dominance T		
8.				3 - Prevalence Ir	ıdex is ≤3.0 <sup>1</sup>	
9.					I Adaptations <sup>1</sup> (Prov	
10					ks or on a separate	e sheet)
11				5 - Wetland Non-		1
Marcha Vinca Otratama (Distraina	30	=Total Cover		l <del></del>	rophytic Vegetation	
Woody Vine Stratum (Plot size:1.	_)			<sup>1</sup> Indicators of hydric s be present, unless di		
1. 2.				·	starbed of problem	iailo.
-· <u>-</u>		=Total Cover		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum				_	<u> X No</u>	
Remarks: Depression with hydrophytic vegetation.						

SOIL

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

Depth Matrix Redox Features

Depth	Matrix	to the depti		x Featu		itor or (	John III ule	auserice Ol	muicators.	,	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	Texture		Remarks	
0-2	10yr 5/3	100	` '				Sai			ry and blocky	/
2-12	10yr 2/1	98	10yr 3/6	2	С	М	Loamy			Faint redox	<del>'</del>
12-16	10yr 4/2	100					Loamy			No redox	
12-10	10y1 4/2	100					Loanly	Clayey		No redox	
• •	oncentration, D=Dep					oated S	and Grains.			e Lining, M=N	
-	Indicators: (Application)	able to all L			-					natic Hydric	Soils':
Histosol			Sandy Gle	-					Лиск (А10) <b>(</b>	-	(I DD D)
	oipedon (A2)		Sandy Red Stripped M						anganese w arent Materia	asses (F12) <b>(</b>	LKK D)
Black Hi	n Sulfide (A4)			`	,	(ovcon	MLRA 1)			Surface (F22	)\
	ick (A9) <b>(LRR D, G)</b>		Loamy Gle	•	, ,	(excepi	WILKA I)		Explain in R	•	.)
	Below Dark Surfac		Depleted I	•	٠, ,				(Explain in i	cinarks)	
	ark Surface (A12)	0 (/ ( ) / )	Redox Dai					<sup>3</sup> Indicators	of hydrophy	tic vegetation	and
	lucky Mineral (S1)		Depleted [		` '					must be pres	
	Mucky Peat or Peat (	(S2) <b>(LRR G</b>			, ,					r problematic.	
Restrictive I	_ayer (if observed)	:									
Type:	None										
Depth (ir	nches):		_				Hydric So	oil Present?	•	Yes	No X
Remarks:						<u> </u>					
HYDROLO	GY										
Wetland Hy	drology Indicators:										
	cators (minimum of	one is require							•	2 or more req	
	Water (A1)			Water-Stained Leaves (B9) (except							
	ter Table (A2)			, ,	, and 4B)				and 4B)	(D.10)	
Saturation	` '		Salt Crust		t (D40)				ge Patterns	. ,	
	arks (B1)		Aquatic In						eason Water	nable (C2) on Aerial Imag	aon. (CO)
	nt Deposits (B2) posits (B3)		Oxidized F		, ,		nots (C3)		orphic Positi	`	gery (Ca)
	it or Crust (B4)		Presence			_	.0010 (00)		w Aquitard (I	, ,	
	osits (B5)		Recent Iro				ls (C6)		leutral Test (	-	
	Soil Cracks (B6)		Stunted or				` ,			s (D6) ( <b>LRR A</b>	<b>A</b> )
	on Visible on Aerial	Imagery (B7)				`	,		Heave Humn		,
X Sparsely	Vegetated Concav	e Surface (B	8)								
Field Obser	vations:										
Surface Wat	er Present? You	es	No X	Depth (	inches):						
Water Table	Present? You	es	No X	Depth (	inches):						
Saturation P	resent? Yo	es	No X	Depth (	inches):		Wetlan	d Hydrolog	/ Present?	Yes X	No
(includes cap											
Describe Re	corded Data (stream	n gauge, mor	nitoring well, aeria	I photos	, previous	sinspec	ctions), if ava	ailable:			
Remarks:											
	depression at the tim	ne of the site	visit, but likely ho	lds wate	er from ov	erland t	flow during s	storm events			
			, , , , , ,				5				

#### 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: Rolling Meadows		City/Cou	nty: Colorado	o Springs		Sampling Dat	te: 10/1	2/22
Applicant/Owner: The Landhuis Company				State:	СО	Sampling Poi	nt: S	SP4
Investigator(s): S. O'Brien and J. Apfel		Section, T	ownship, Rar	nge: <u>13, 15</u>	S, 65W			
Landform (hillside, terrace, etc.): Depression		Local relief (co	oncave, conve	ex, none): (	Concave		Slope (%):	: 1-3
Subregion (LRR): LRR E Lat: 38.750	0779		Long:1	04.6198798		Datur	m: NAD	83
Soil Map Unit Name: Stapleton-Bernal sandy loams, 3	to 20 percen	t slopes		-	NWI classific	cation: PEM (is	solated)	
Are climatic / hydrologic conditions on the site typical for	or this time o	f year?	Yes X	No	(If no, expl	ain in Remarks	;.)	
Are Vegetation N , Soil N , or Hydrology N s	significantly o	disturbed? A	re "Normal C	ircumstances	s" present?	Yes X	No	
Are Vegetation N , Soil N , or Hydrology N r	naturally prol	olematic? (I	If needed, exp	olain any ans	wers in Rem	narks.)		_
SUMMARY OF FINDINGS – Attach site ma			g point lo	cations, tr	ansects, i	important f	eatures	, etc.
Hydrophytic Vegetation Present? Yes X No	)	Is the	Sampled Ar	·ea				
			n a Wetland?		Yes X	No		
Wetland Hydrology Present? Yes X No								
Remarks: Disconnected PEM wetland retention pond, with dam.	Visible on a	rial and an the	NWI layer as	s a wotland				
Disconnected F Livi wetiand retention pond, with dam.	VISIDIC OII a	nei and on the	invvilayel as	s a welland.				
VEGETATION – Use scientific names of p	lants.							
	Absolute	Dominant	Indicator					
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominanc	e Test work	sheet:		
1					Dominant S	•		
2					FACW, or FA		1	_(A)
3				Total Numb		nant Species	1	(B)
··		=Total Cover			Dominant S	— necies That		_(_)
Sapling/Shrub Stratum (Plot size:)					FACW, or FA	•	100.0%	(A/B
1								
2.					e Index wor			
3.					% Cover of:		tiply by:	_
5.				OBL specie FACW spe			0	_
J		=Total Cover		FAC specie				_
Herb Stratum (Plot size: 10 sq ft )				FACU spec			12	_
1. Potentilla norvegica	32	Yes	FAC	UPL specie		x 5 =	0	_
2. Bassia scoparia	5	No	FAC	Column To	otals: 40	(A)	123	(B)
3. Chenopodium album	3	No	FACU	Prevale	nce Index =	B/A =3	3.08	_
4	-			Lludranhut	lie Vegetetis	nn Indiantara		
5 6.					_	on Indicators: Hydrophytic Ve	aetation	
7.					minance Tes		getation	
8.					valence Inde			
9.				4 - Mor	phological A	daptations <sup>1</sup> (Pro	ovide sup	porting
10.				data	in Remarks	or on a separa	ate sheet)	)
11						ascular Plants <sup>1</sup>		
		=Total Cover			•	phytic Vegetati		•
Woody Vine Stratum (Plot size:)						il and wetland h		must
1 2.			<b> </b>	•		urbed or proble	matic.	
		=Total Cover		Hydrophyt				
% Bare Ground in Herb Stratum 60		1010100761		Vegetation Present?	n Yes_	X No_		
Remarks: Problimatic vegetation due to pond, dam, and likely he	eavy salt con	tent within soi	I					

SOIL Sampling Point: SP4

Profile Desc Depth	ription: (Describe Matrix	to the depth		ı <b>ment the</b> x Features		ator or c	onfirm the	absence of	of indicators	i.)	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure		Remarks	
0-1	10yr 4/1	100	Color (moloc)		7,70	PL/M	Loamy/			Dry	
1-12	10yr 3/2	85	10yr 4/6	15		PL/M	Loamy/			Moist	
12-18	10yr 3/2	98	10yr 4/6	2		PL/M	Loamy/	Clayey		Moist	
	-										
1								2.			
-	oncentration, D=Dep					oated Sa	and Grains.			ore Lining, M=	
Histosol	ndicators: (Applica	DIE TO AII LI	Sandy Gle		-				Muck (A10)	matic Hydric	Solis":
	ipedon (A2)		Sandy Gle		(34)					Masses (F12)	(I RR D)
Black His			Stripped M						Parent Mater		(LIKIK D)
	n Sulfide (A4)		Loamy Mu	` '	al (F1)	(excent	MI RA 1)			k Surface (F2:	2)
	ck (A9) <b>(LRR D, G)</b>		Loamy Gle			(oxoop:	,		r (Explain in l	-	-/
	Below Dark Surface	e (A11)	Depleted N	-					. (=/4/		
	rk Surface (A12)	,	Redox Dar	` '				<sup>3</sup> Indicator	rs of hydroph	ytic vegetatior	n and
Sandy M	ucky Mineral (S1)		Depleted D	ark Surfa	ce (F7)	)		wetla	and hydrology	must be pres	sent,
2.5 cm N	lucky Peat or Peat (	S2) <b>(LRR G)</b>	X Redox Dep	ressions (	(F8)			unles	ss disturbed o	or problematio	
Restrictive I	ayer (if observed):										
Type:	None										
Depth (ir	nches):		_				Hydric So	oil Present	t?	Yes X	No
Remarks:											
Moist with re	dox throughout. Dry	and blocky									
HYDROLO	GV										
	drology Indicators:										
_	ators (minimum of c	ne is require	ed: check all that a	apply)				Secondar	ry Indicators	(2 or more red	nuired)
-	Water (A1)	no io roquire	Water-Stai		es (B9)	(except	 t		•	aves (B9) ( <b>ML</b>	
	ter Table (A2)			1, 2, 4A, a					A, and 4B)	( - / (	,
Saturation	on (A3)		X Salt Crust	(B11)	,	•		Drair	nage Patterns	s (B10)	
Water M	arks (B1)		Aquatic Inv	ertebrates	s (B13)	)		Dry-S	Season Wate	r Table (C2)	
Sedimen	t Deposits (B2)		Hydrogen	Sulfide Od	lor (C1)	)		Satu	ration Visible	on Aerial Ima	gery (C9)
Drift Dep	osits (B3)		Oxidized R	hizospher	es on l	Living Ro	oots (C3)	X Geor	morphic Posit	tion (D2)	
<u> </u>	t or Crust (B4)		Presence of						ow Aquitard	` '	
	osits (B5)		Recent Iro				` '		-Neutral Test		
	Soil Cracks (B6)	, <u> </u>	Stunted or				RR A)			ds (D6) ( <b>LRR</b>	A)
	on Visible on Aerial I	. , ,	` `	lain in Rei	marks)			Frost	t-Heave Hum	mocks (D7)	
	Vegetated Concave	Surrace (Bo	3)				1				
Field Observ		_	N. V	D 41- /:	- I \						
Surface Water Table				Depth (inc	· -						
Saturation Pr				Depth (inc Depth (inc			Wetland	d Hydrolo	gy Present?	Yes X	No
(includes cap			NO X	Deptii (iiic			VVCtiant	a riyarolo	gy i resent:	163 /	
•	corded Data (stream	gauge, mon	itoring well, aerial	photos, p	revious	s inspec	tions), if ava	ilable:			
	,	J J ,	<i>y</i> ,	. , , ,		, -	,,				
Remarks:											
Ponging. No	Draiange or connect	er to main c	hannel.								

#### **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: Rolling Meadows		City/Cour	nty: Colorad	do Springs	Sampling Date:	10/12/22
Applicant/Owner: The Landhuis Company				State: CO	Sampling Point	: SP5
Investigator(s): S. O'Brien and J. Apfel		Section, T	ownship, Ra	ange: <u>13, 15S, 65W</u>		
Landform (hillside, terrace, etc.): Depression		Local relief (co	oncave, con	vex, none): Concave	Slo	ope (%): 10-15
Subregion (LRR): LRR E Lat: 38	.7500484		Long:	104.6199312	Datum:	NAD 83
Soil Map Unit Name: Stapleton-Bernal sandy loams	s, 3 to 20 percen	t slopes		NWI classi	fication: Upland	
Are climatic / hydrologic conditions on the site typic	al for this time o	f year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation N , Soil N , or Hydrology N	N significantly	disturbed? A	re "Normal (	Circumstances" present?	Yes <u>X</u> 1	No
Are Vegetation N , Soil N , or Hydrology N	N _ naturally prol	olematic? (I	f needed, ex	xplain any answers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site	map showin	g samplin	g point lo	cations, transects,	important fea	atures, etc.
Hydrophytic Vegetation Present? Yes	No X	Is the	Sampled A	Area		
Hydric Soil Present? Yes	No X		n a Wetland		No X	
Wetland Hydrology Present? Yes	No X					
Remarks: Upland point						
органи ронн						
VEGETATION – Use scientific names of	of nlants					
VEGETATION 03c 3cicitatio fidines of	Absolute	Dominant	Indicator	1		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1.				Number of Dominant	•	
2.				Are OBL, FACW, or F		<u>0</u> (A)
4				Total Number of Dom Across All Strata:	nant Species	1 (B)
		=Total Cover		Percent of Dominant S	Species That	(=)
Sapling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or F	•	0.0% (A/B)
1						
2.				Prevalence Index wo		les besse
3				Total % Cover of OBL species	<del></del>	0 0
5.				FACW species (		0
		=Total Cover		-	) x 3 =	0
Herb Stratum (Plot size: 10 sq ft )				FACU species 5	0 x 4 =	200
1. Salsola	35	Yes	FACU	UPL species (		0
2. Helianthus annuus		No No	FACU		0 (A)	200 (B)
Convolvulus arvensis     4.		No	FACU	Prevalence Index	= B/A =4.0	<u> </u>
5.				Hydrophytic Vegetat	ion Indicators:	
6.				1 - Rapid Test for	Hydrophytic Vege	etation
7				2 - Dominance Te		
8				3 - Prevalence Inc		
9.				4 - Morphological	Adaptations '(Prov s or on a separate	
10 11.				5 - Wetland Non-		o oncor)
	50	=Total Cover		Problematic Hydro		n <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric se		` ' '
1.	<u> </u>			be present, unless dis		
2.				Hydrophytic		
% Bare Ground in Herb Stratum50		=Total Cover		Vegetation Present? Yes	No_X	<u>(                                     </u>
Remarks: None. Hillside to the pond						

SOIL Sampling Point: SP5

	cription: (Describe	to the depth				itor or o	confirm the	absence of ir	idicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	R	emarks	
0-6	10yr 4/1	60	7.5yr 5/8	40	C	M		/Clayey		and blocky	,
6-16	10yr 3/1	90	10yr 4/6	10	C	M		/Clayey	-	and blocky	
0-10	10y1 3/1	30	10y1 4/0	10		IVI	Loaniy	Clayey		and blocky	'
¹Type: C=C	oncentration, D=Dep	oletion, RM=R	Reduced Matrix, C	S=Cove	ered or Co	oated S	and Grains.	<sup>2</sup> Location	n: PL=Pore Li	ining, M=M	fatrix.
Hydric Soil	Indicators: (Applic	able to all LR	RRs, unless other	erwise n	oted.)			Indicators for	or Problemati	ic Hydric (	Soils <sup>3</sup> :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)			2 cm Mu	ıck (A10) <b>(LRF</b>	R A, E)	
Histic Ep	oipedon (A2)		Sandy Re	dox (S5)				Iron-Mar	nganese Mass	es (F12) (	LRR D)
Black Hi	stic (A3)		Stripped N	latrix (Se	3)			Red Par	ent Material (F	21)	
Hydroge	n Sulfide (A4)		Loamy Mu	icky Min	eral (F1)	(except	MLRA 1)	Very Sha	allow Dark Sur	rface (F22	)
1 cm Mu	ıck (A9) <b>(LRR D, G)</b>		Loamy Gle	eyed Ma	trix (F2)			Other (E	xplain in Rem	arks)	
	d Below Dark Surfac	e (A11)	X Depleted I								
	ark Surface (A12)		X Redox Da		, ,				f hydrophytic v	-	
	lucky Mineral (S1)		Depleted I		, ,	)			hydrology mus		ent,
2.5 cm N	Mucky Peat or Peat	(S2) <b>(LRR G)</b>	X Redox De	pression	s (F8)			unless d	isturbed or pro	oblematic.	
	Layer (if observed)										
Type:	None	!	_				Hardela O	- !! D	V	V	NI-
Depth (ii	ncnes):		_				Hyaric S	oil Present?	Y6	es X	No
Remarks:	al lettletale NAVeA code con	eui									
opiano. Pon	d hillside. Wet when	illiea.									
HYDROLO	)GV										
	drology Indicators:										
-	cators (minimum of		d: check all that	annly)				Secondary Ir	ndicators (2 or	more real	uired)
-	Water (A1)	one is require	Water-Sta		aves (B9)	(excen	t .	-	tained Leaves	-	
	ater Table (A2)				, and 4B)	-	•		nd 4B)	(B0) (IIII	
Saturation			Salt Crust		,	•			e Patterns (B1	0)	
	larks (B1)		Aquatic In		tes (B13)	1			son Water Tal	-	
	nt Deposits (B2)		Hydrogen						on Visible on A		gery (C9)
	posits (B3)		Oxidized F				oots (C3)	Geomor	phic Position (	D2)	
Algal Ma	at or Crust (B4)		Presence	of Redu	ced Iron (	(C4)		Shallow	Aquitard (D3)		
Iron Dep	oosits (B5)		Recent Iro	n Reduc	tion in Ti	lled Soi	ls (C6)	FAC-Ne	utral Test (D5)	)	
	Soil Cracks (B6)		Stunted or	Stresse	d Plants	(D1) ( <b>L</b>	RR A)	Raised A	Ant Mounds (D	06) ( <b>LRR A</b>	<b>A</b> )
	on Visible on Aerial		Other (Exp	olain in F	Remarks)			Frost-He	ave Hummocl	ks (D7)	
Sparsely	/ Vegetated Concav	e Surface (B8	3)								
Field Obser											
Surface Wat		es	No X		inches): _						
Water Table		es	No X		inches): _						
Saturation P		es	No <u>X</u>	Depth (i	inches): _		Wetlan	d Hydrology F	resent? Ye	es	No X
(includes cap		2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	itoring well as-i-	l photos	provious	o inono-	ations) if arr	ailable:			
Describe Re	corded Data (stream	ı gauge, mon	itoring well, aerla	ı pnotos	, previous	sinspec	LIONS), IT AV	aliable:			
Remarks:											
None. Hillsid	le										
1											

Project: Rolling Hills Project Number: 21.1129.009 Stream: Drainage 1 Investigator(s): S O'Brien and	J. Anfel	Date: 10/12/2022 Town: CO Springs Photo begin file#	Time: 9:45 State: CO Photo end file#			
Y X / N Do normal circumstance		Ku				
$Y \square / N \boxed{X}$ Is the site significantly of	disturbed?	<b>Datum: Coordinates:</b> 38.749935, -10	04.621694			
<b>Notes:</b> OHWM is not present throug channel right-of-way.	ghout the entire chanr	nel corridor. Present in sev	reral locations throughout the			
<b>Brief site description:</b> Fully vegetat other hydrology indicators, not consi	•	1 0 1	n both sides. OHWM and			
Checklist of resources (if available	):					
<ul> <li>X Aerial photography     Dates:</li> <li>X Topographic maps     Scale:     Geologic maps</li> <li>X Vegetation maps</li> <li>X Soils maps</li> <li>Rainfall/precipitation maps</li> <li>Existing delineation(s) for site</li> <li>Global positioning system (GPS)</li> <li>Other studies</li> </ul>	Histor Result Most i Gage i	nber:	vsis 25-year events and the			
The dominant Wentworth size class the is recorded in the average sediment te Millimeters (mm) Inches (in)	exture field under the o	characteristics section for the	ne zone of interest.			
2.56 — — — 64 — — 0.157 — — 4 — — 0.079 — 2.00 —	Cobble Pebble Coranule	Active Floodplain	Low Terrace			
0.039 — — — 1.00 — — 0.020 — — — 0.50 — — 1/2 0.0098 — — 0.25 — —	Coarse sand  ———————————————————————————————————	Low-Flow Channels	Paleo Channel			
1/4     0.005     —     —     0.125     —       1/8     0.0025     —     0.0625       1/16     0.0012     —     —     0.031     —       1/32     0.00061     —     —     0.0156     —	Very fine sand  Coarse silt  Medium silt  Fine silt					
1/64 0.00031 — — 0.0078 — — 1/128 — 0.00015 — 0.0039		0 in 1	2 3			

X	Walk the channel and floodplain within the study area to get an impression of the vegetation and geomorphology present at the site. Record any potential anthropogenic influences on the channel system in "Notes" above.								
X	Locate the low-flow channel (lowest part of the channel). Record observations.								
	<u>Characteristics of the low-flow channel:</u>								
	Average sediment texture: _Silt								
	Total veg cover:80 %								
	% Community successional stage:								
	<ul> <li>□ NA</li> <li>□ Mid (herbaceous, shrubs, saplings)</li> <li>□ Late (herbaceous, shrubs, mature trees)</li> </ul>								
	<u>Dominant species present:</u> Western wheat ( <i>Pascopyrum smithii</i> ), Field bindweed ( <i>Convolvulus arvensis</i> ), Kochia ( <i>Bassia scoparia</i> )								
	Other: No bed and bank for low flow channel								
	No evidence of recent flows								
X	Walk away from the low-flow channel along cross-section. Record characteristics of the low-flow/active floodplain boundary.								
	Characteristics used to delineate the low-flow/active floodplain boundary:								
	<ul> <li>□ Change in total veg cover</li> <li>□ Change in overall vegetation maturity</li> <li>□ Change in dominant species present</li> <li>□ Other</li> <li>□ Presence of bed and bank</li> <li>□ Drift and/or debris</li> <li>□ Other: Change in slope</li> <li>□ Other:</li> </ul>								
X	Continue walking the channel cross-section. Record observations below.								
	Characteristics of the low-flow channel:								
	Average sediment texture:Silt								
	Total veg cover:70_ %								
	Community successional stage:								
	<ul> <li>□ NA</li> <li>□ Mid (herbaceous, shrubs, saplings)</li> <li>□ Late (herbaceous, shrubs, mature trees)</li> </ul>								
	<u>Dominant species pre</u> sent: Western wheat ( <i>Pascopyrum smithii</i> ), Field bindweed ( <i>Convolvulus arvensis</i> ), Kochia ( <i>Bassia scoparia</i> ), Blue grama ( <i>Bouteloua gracilis</i> )								
	Other: X Depressional features within drainage (sparsley vegetated)								

X	Continue walking the channel cross-section. Record indicators of the active floodplain/low
	terrace boundary.
	Characteristics used to delineate the active floodplain/ low terrace boundary:
	Change in average sediment texture Change in total veg cover Change in overall vegetation maturity Change in dominant species present Other Presence of bed and bank Drift and/or debris X Other: _No Change Other:
X	Walk the active floodplain/low terrace boundary both upstream and downstream of the cross-
[ <b>Z</b> ]	section to verify that the indicators used to identify the transition are consistently associated the
	transition in both directions.
	Consistency of indicators used to delineate the active floodplain/low terrace boundary:
	Y N X Change in average sediment texture Y X N Change in total veg cover Tree X Shrub Y X N Change in overall vegetation maturity Y X N Change in dominant species present Y X N Other: Y N X Presence of bed and bank Y N X Drift and/or debris Y X N Other: _Slope (Slightly)
	Y N Other:
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
X	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Silt
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Silt  Total veg cover:75_ % Tree:0 Shrub:20_% Herb:55_%
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Silt  Total veg cover:75_ % Tree:0 Shrub:20_% Herb:55_%  Community successional stage:  NA  Mid (herbaceous, shrubs, saplings)
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Silt  Total veg cover:75_ % Tree:0 Shrub:20_% Herb:55_%  Community successional stage:  NA
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Silt  Total veg cover:75_ %
X	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Silt Total veg cover:75_%

Project: Rolling Meadows Project Number: 21.1129.009 Stream: Drainage 2 Investigator(s): Seymone O'Brien	Date: 12/6/2022 Time: 1pm Town: Colorado State: CO Springs Photo end file# Photo begin file#
Y X / N Do normal circumstances exist on the site?	Location Details: Tributary to drainage 1, located on the east side of the project area.
$Y \square / N \boxed{X}$ Is the site significantly disturbed?	Datum: Projection: Coordinates: 38.755488, -104.61603
<b>Notes:</b> Discontinuous stream channel. Very shallow and c	ompletely dry without evidence of recent flows.
Brief site description: Fully vegetated drainage. Contribu	tes to the main drainage 1, within the Project Area.
Checklist of resources (if available):	
☐ Geologic maps       ☐ History         ☒ Vegetation maps       ☐ Results         ☒ Soils maps       ☐ Most results         ☐ Rainfall/precipitation maps       ☐ Gage here	ber:
The dominant Wentworth size class that imparts a characteristic recorded in the average sediment texture field under the cl	
Millimeters (mm)	drogeomorphic Floodplain Units - Intermittent and Ephemeral Channel Forms (representative cross-section)  Active Floodplain  Low Terrace  Low-Flow Channels  Paleo Channel
1/16	

X	Walk the channel and floodplain within the study area to get an impression of the vegetation and geomorphology present at the site. Record any potential anthropogenic influences on the channel system in "Notes" above.
X	Locate the low-flow channel (lowest part of the channel). Record observations.
	Characteristics of the low-flow channel:
	Average sediment texture: Sandy-loam/Clay
	Total veg cover: <u>80</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>80</u> %
	Community successional stage:
	□ NA       □ Mid (herbaceous, shrubs, saplings)         ▼ Early (herbaceous & seedlings)       □ Late (herbaceous, shrubs, mature trees)
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali), crested wheatgrass (Agropyron cristatum)
	Other:
X	Walk away from the low-flow channel along cross-section. Record characteristics of the low-flow/active floodplain boundary.
	Characteristics used to delineate the low-flow/active floodplain boundary:
	Change in total veg cover
X	Continue walking the channel cross-section. Record observations below.
	<u>Characteristics of the low-flow channel:</u>
	Average sediment texture: <u>Clay</u>
	Total veg cover: <u>20</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>20</u> %
	Community successional stage:
	<ul> <li>□ NA</li> <li>□ Mid (herbaceous, shrubs, saplings)</li> <li>□ Late (herbaceous, shrubs, mature trees)</li> </ul>
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali), crested wheatgrass (Agropyron cristatum)
	Other:

X	Continue walking the channel cross-section. Record indicators of the active floodplain/low
	terrace boundary.
	Characteristics used to delineate the active floodplain/ low terrace boundary:
	☐ Change in average sediment texture   ☐ Change in total veg cover ☐ Tree ☐ Shrub ☒ Herb   ☐ Change in overall vegetation maturity   ☐ Change in dominant species present No Change   ☐ Other ☐ Presence of bed and bank   ☐ Drift and/or debris ☐ Other:   ☐ Other: ☐ Other:
X	Walk the active floodplain/low terrace boundary both upstream and downstream of the cross-
21	section to verify that the indicators used to identify the transition are consistently associated the transition in both directions.
	Consistency of indicators used to delineate the active floodplain/low terrace boundary:
	Y □ N ☒ Change in average sediment texture Y □ N ☒ Change in total veg cover □ Tree □ Shrub □ Herb Y □ N ☒ Change in overall vegetation maturity Y □ N ☒ Change in dominant species present Y □ N ☒ Other: Y □ N □ Presence of bed and bank Y □ N □ Drift and/or debris Y □ N □ Other: □ □ □ □ □ □ □
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions,
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA Mid (herbaceous, shrubs, saplings)
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA
	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA Mid (herbaceous, shrubs, saplings) X Early (herbaceous & seedlings) Late (herbaceous, shrubs, mature trees)  Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali), crested wheatgrass (Agropyron cristatum)  Other:   Other:   If characteristics used to delineate the active floodplain/low terrace boundary were deemed

Project: Rolling Meadows Project Number: 21.1129.009 Stream: Drainage 3 Investigator(s): Seymone O'Bri	en	Date: 12/6/2022 Town: Colorado Springs Photo begin file#	Time: 1pm State: CO Photo end file#	
Y X / N Do normal circumstanc		Location Details: North Area.	Ţ.	
Y / N X Is the site significantly	disturbed?	Datum: Pro Coordinates: 38.753248	ojection: 104.617944	
Notes: Discontinuous stream channel	·	completely dry without evi	dence of recent flows.	
Brief site description: Fully vegetar	Ü	the eastern section of the Pr	roject Area.	
Checklist of resources (if available	´	•		
X Aerial photography Dates:	∐ Stream ga Gage num	•		
X Topographic maps	Period of			
Scale:		ometer / level		
Geologic maps	=	ory of recent effective discharges		
X Vegetation maps	Result	s of flood frequency analys	is	
X Soils maps	Most n	recent shift-adjusted rating		
Rainfall/precipitation maps		heights for 2-, 5-, 10-, and 2	-	
Existing delineation(s) for site		recent event exceeding a 5-y	year event	
X Global positioning system (GPS)				
Other studies				
The dominant Wentworth size class to	-			
is recorded in the average sediment to	exture field under the c	characteristics section for the	e zone of interest.	
Millimeters (mm) Inches (in)	Wentworth size class	ydrogeomorphic Floodplain Units - Intern	nittont and Enhanceal Channel Forms	
10.08 — — — 256 — —	Boulder — — -	(representative cr		
2.56 — — — 64 — —	Cobble — — — — — — — — — — — — — — — — — — —	Active Floodplain	Low Terrace	
0.157 4	Pebble $\bar{\mathcal{O}}$			
0.079 2.00	Granule		- (	
0.039 — — — 1.00 — —	Very coarse sand	مر ينسن ينسن	The state of the s	
0.020 — — — 0.50 — —	Coarse sand	47		
1/2 0.0098 — — — 0.25 — —	Medium sand g	Low-Flow Channels	Paleo Channel	
1/4 0.005 — — 0.125 — —	Fine sand			
	Very fine sand			
	Coarse silt	0 cm 1 2 3 4	5 6 7 8	
1/16	Medium silt			
5.5155	Fine silt	[		
1/64 0.00031 — — 0.0078 — —	Very fine silt	0 in 1	2 3	
1/128 — 0.00015 — 0.0039 —	Clay Png			

X	Walk the channel and floodplain within the study area to get an impression of the vegetation and geomorphology present at the site. Record any potential anthropogenic influences on the channel system in "Notes" above.								
X	Locate the low-flow channel (lowest part of the channel). Record observations.								
	Characteristics of the low-flow channel:								
	Average sediment texture: Sandy-loam/Clay								
	Total veg cover: <u>80</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>80</u> %								
	Community successional stage:								
	□ NA       □ Mid (herbaceous, shrubs, saplings)         ▼ Early (herbaceous & seedlings)       □ Late (herbaceous, shrubs, mature trees)								
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali)								
	Other: X No bed and bank or low flow channel No evidence of recent flows								
X	Walk away from the low-flow channel along cross-section. Record characteristics of the low-flow/active floodplain boundary.								
	Characteristics used to delineate the low-flow/active floodplain boundary:								
	☐ Change in total veg cover ☐ Tree ☐ Shrub ☒ Herb   ☐ Change in overall vegetation maturity ☐ Change in dominant species present No Change   ☐ Other ☐ Presence of bed and bank   ☐ Drift and/or debris ☐ Other:   ☐ Other: ☐ Other:								
X	Continue walking the channel cross-section. Record observations below.								
	Characteristics of the low-flow channel:								
	Average sediment texture: Clay								
	Total veg cover: <u>20</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>20</u> %								
	Community successional stage:								
	☐ NA ☐ Mid (herbaceous, shrubs, saplings)								
	X Early (herbaceous & seedlings)  Late (herbaceous, shrubs, mature trees)								
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian								
	thistle (Salsola kali)								
	Other:								

X	Continue walking the channel cross-section. Record indicators of the active floodplain/low terrace boundary.
	Characteristics used to delineate the active floodplain/ low terrace boundary:
	Change in average sediment texture  Change in total veg cover  Change in overall vegetation maturity  Change in dominant species present  Other  Presence of bed and bank  Drift and/or debris  Other:  Other:
X	Walk the active floodplain/low terrace boundary both upstream and downstream of the cross-section to verify that the indicators used to identify the transition are consistently associated the transition in both directions.
	Consistency of indicators used to delineate the active floodplain/low terrace boundary:
	Y □ N ☒ Change in average sediment texture Y □ N ☒ Change in total veg cover □ Tree □ Shrub □ Herb Y □ N ☒ Change in overall vegetation maturity Y □ N ☒ Change in dominant species present Y □ N ☒ Other: Y □ N □ Presence of bed and bank Y □ N □ Drift and/or debris Y □ N □ Other: Y □ N □ Other: Union of the content of th
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
X	Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA
	Other:     Continue of this this tele (Salsola kali)   Continue of this telephone of this tel
	If characteristics used to delineate the active floodplain/low terrace boundary were deemed reliable, acquire boundary.  Active floodplain/low terrace boundary acquired via:
	<u> </u>

Project: Rolling Meadows Project Number: 21.1129.009 Stream: Drainage 4 Investigator(s): Seymone O'Bri	en	Date: 12/6/2022 Town: Colorado Springs Photo begin file#	Time: 1pm State: CO Photo end file#
Y X / N Do normal circumstanc	es exist on the site?	Location Details: North Area.	side of the Project
$Y \square / N \boxtimes Is$ the site significantly	disturbed?	Coordinates: 38.74956,	
Notes: Discontinuous stream channel	·	. , ,	
Brief site description: Fully vegeta	Ü	the eastern section of the Pr	oject Area.
Checklist of resources (if available			
X Aerial photography	☐ Stream ga	•	
Dates:  X Topographic maps	Gage num Period of		
Scale:		neter / level	
Geologic maps	=	y of recent effective dischar	rges
X Vegetation maps		s of flood frequency analys	0
X Soils maps	Most n	recent shift-adjusted rating	
Rainfall/precipitation maps		heights for 2-, 5-, 10-, and 2	-
Existing delineation(s) for site		recent event exceeding a 5-y	year event
X Global positioning system (GPS)			
Other studies			
The dominant Wentworth size class to	hat imparts a character	ristic texture to each zone of	a channel cross-section
is recorded in the average sediment to	exture field under the o	characteristics section for the	e zone of interest.
Millimeters (mm) Inches (in)	Wentworth size class	ydrogeomorphic Floodplain Units - Intern	
10.08 — — — 256 — —	Boulder — — -	ydrogeomorphic Floodplain Onits - interi (representative cr	
2.56 — — — 64 — —	Cobble — — — — — — — — — — — — — — — — — — —	Active Floodplain	Low Terrace
0.157 4	Pebble $\bar{\mathcal{O}}$		
0.079 2.00	Granule		- (
0.039 — — — 1.00 — —	Very coarse sand	مر ينسن ينسن	The state of the s
0.020 — — — 0.50 — —	Coarse sand	47	
1/2 0.0098 — — — 0.25 — —	Medium sand g	Low-Flow Channels	Paleo Channel
1/4 0.005 — — 0.125 — —	Fine sand		
	Very fine sand		
	Coarse silt	0 cm 1 2 3 4	5 6 7 8
	Medium silt ≝		
5.5155	Fine silt		
1/64 0.00031 — — 0.0078 — —	Very fine silt	0 in 1	2 3
1/128 — 0.00015 — 0.0039 —	Clay PnW		

X	Walk the channel and floodplain within the study area to get an impression of the vegetation and geomorphology present at the site. Record any potential anthropogenic influences on the channel system in "Notes" above.
X	Locate the low-flow channel (lowest part of the channel). Record observations.
	Characteristics of the low-flow channel:
	Average sediment texture: <u>Sandy-loam/Clay</u>
	Total veg cover: <u>80</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>80</u> %
	Community successional stage:
	□ NA       □ Mid (herbaceous, shrubs, saplings)         □ Late (herbaceous, shrubs, mature trees)
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia pappos); Russia thistle (Salsola kali), crested wheatgrass (Agropyron cristatum)
	Other:
X	Walk away from the low-flow channel along cross-section. Record characteristics of the low-flow/active floodplain boundary.  Characteristics used to delineate the low-flow/active floodplain boundary:
	Change in total veg cover
X	Continue walking the channel cross-section. Record observations below.
	Characteristics of the low-flow channel:
	Average sediment texture: <u>Clay</u>
	Total veg cover: <u>20</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>20</u> %
	Community successional stage:       ☐ NA       ☐ Mid (herbaceous, shrubs, saplings)         X Early (herbaceous & seedlings)       ☐ Late (herbaceous, shrubs, mature trees)
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa),
	Russian thistle (Salsola kali), crested wheatgrass (Agropyron cristatum)
	Other:     Other

X	Continue walking the channel cross-section. Record indicators of the active floodplain/low terrace boundary.
	Characteristics used to delineate the active floodplain/ low terrace boundary:
	Change in average sediment texture Change in total veg cover Change in overall vegetation maturity Change in dominant species present Other Presence of bed and bank Drift and/or debris Other: Other:
X	Walk the active floodplain/low terrace boundary both upstream and downstream of the cross-section to verify that the indicators used to identify the transition are consistently associated the transition in both directions.
	Consistency of indicators used to delineate the active floodplain/low terrace boundary:
	Y □ N ☒ Change in average sediment texture Y □ N ☒ Change in total veg cover □ Tree □ Shrub □ Herb Y □ N ☒ Change in overall vegetation maturity Y □ N ☒ Change in dominant species present Y □ N ☒ Other: Y □ N □ Presence of bed and bank Y □ N □ Drift and/or debris Y □ N □ Other: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
X	Continue walking the channel cross-section. Record characteristics of the low terrace.
	<u>Characteristics of the low terrace:</u>
	Average sediment texture: <u>Clay</u> Total veg cover: <u>20</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>20</u> %
	Community successional stage:
	NA
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali)
	Other:
	If characteristics used to delineate the active floodplain/low terrace boundary were deemed reliable, acquire boundary.
	Active floodplain/low terrace boundary acquired via:
	☐ Mapping on aerial photograph ☐ GPS

Project: Rolling Meadows Project Number: 21.1129.009 Stream: Drainage 5 Investigator(s): Seymone O'Bri	en	Date: 12/6/2022 Town: Colorado Springs Photo begin file#	Time: 1pm State: CO Photo end file#
$Y \times / N $ Do normal circumstanc	es exist on the site?	Location Details: Tribut located on the east side of Datum:  Project	of the project area. ion:
Notes: Discontinuous stream channe		Coordinates: 38.749153, completely dry without evid	
<b>Brief site description:</b> Fully vegeta Head cut on the west side of the char		ites to the main drainage 1,	within the Project Area.
Checklist of resources (if available	<b>):</b>		
<ul> <li>X Aerial photography     Dates:</li> <li>X Topographic maps     Scale:     Geologic maps     Vegetation maps     Soils maps     Rainfall/precipitation maps     Existing delineation(s) for site     Global positioning system (GPS)     Other studies</li> </ul>	History Results Most re Gage h	ber:	is 25-year events and the
The dominant Wentworth size class t	hat imparts a character	ristic taxtura to each zone of	a channal cross section
is recorded in the average sediment to	-		
10.08       —       —       2.56       —       —       64       —       —         0.157       —       —       —       64       —       —         0.079       —       —       —       2.00       —         0.039       —       —       1.00       —       —         0.020       —       —       0.50       —       —         1/2       0.0098       —       —       0.25       —       —         1/4       0.005       —       —       0.125       —       —         1/8       —       0.0025       —       —       0.031       —       —         1/32       0.00061       —       —       0.0156       —       —       0.0156       —	Cobble Pebble Communication of the communication of	Low-Flow Channels	Low Terrace Paleo Channel
1/64 0.00031 — — 0.0078 — —  1/128 — 0.00015 — 0.0039 —	Fine silt	) in 1	2 3

X	Walk the channel and floodplain within the study area to get an impression of the vegetation and geomorphology present at the site. Record any potential anthropogenic influences on the channel system in "Notes" above.
X	Locate the low-flow channel (lowest part of the channel). Record observations.
	<u>Characteristics of the low-flow channel:</u>
	Average sediment texture: <u>Sandy-loam/Clay</u> Total veg cover: _90 %
	Community successional stage:
	□ NA       □ Mid (herbaceous, shrubs, saplings)         ▼ Early (herbaceous & seedlings)       □ Late (herbaceous, shrubs, mature trees)
	Dominant species present: Blue grama (Bouteloua gracilis), Russian thistle (Salsola kali), crested  wheatgrass (Agropyron cristatum), western wheatgrass (Pascopyrum smithii)  kochia (Bassia prostrata), scotch thistle (Onopordum acanthium)
	Other: X _No evidence of recent flows
X	Walk away from the low-flow channel along cross-section. Record characteristics of the low-flow/active floodplain boundary.  Characteristics used to delineate the low-flow/active floodplain boundary:
	□ Change in total veg cover □ Tree □ Shrub ☒ Herb   □ Change in overall vegetation maturity   ☒ Change in dominant species present   □ Other □ Presence of bed and bank   □ Drift and/or debris □ Other:   □ Other: □ Other:
X	Continue walking the channel cross-section. Record observations below.
	Characteristics of the low-flow channel:
	Average sediment texture: <u>Clay</u> Total veg cover: <u>80</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>80</u> %
	Community successional stage:       ☐ NA       ☐ Mid (herbaceous, shrubs, saplings)         X Early (herbaceous & seedlings)       ☐ Late (herbaceous, shrubs, mature trees)
	Dominant species present: Blue grama (Bouteloua gracilis), Russian thistle (Salsola kali), crested wheatgrass (Agropyron cristatum), western wheatgrass (Pascopyrum
	Smithii), kochia (Bassia prostrata), scotch thistle (Onopordum acanthium)  Other:

X	Continue walking the channel cross-section. Record indicators of the active floodplain/low
	terrace boundary.  Characteristics used to delineate the active floodplain/ low terrace boundary:
	Change in average sediment texture  Change in total veg cover  Change in overall vegetation maturity  Change in dominant species present  Other  Presence of bed and bank  Drift and/or debris  Other:  Other:
X	Walk the active floodplain/low terrace boundary both upstream and downstream of the cross-
_	section to verify that the indicators used to identify the transition are consistently associated the
	transition in both directions.
	Consistency of indicators used to delineate the active floodplain/low terrace boundary:
	Y N X Change in average sediment texture Y X N Change in total veg cover Tree X Shrub X Herb Y X N Change in overall vegetation maturity Y X N Change in dominant species present Y N X Other: Y N Presence of bed and bank Y N Other:
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
X	consistently associated with the transition in both the upstream and downstream directions,
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture:Clay  Total veg cover: _60 % Tree: _0 % Shrub: _10 % Herb: _50 %
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture:Clay Total veg cover: _60 %
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture:Clay  Total veg cover: _60 %
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture:
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture:  Clay  Total veg cover: 60 % Tree: 0 % Shrub: 10 % Herb: 50 %  Community successional stage:  NA  XMid (herbaceous, shrubs, saplings)  Early (herbaceous & seedlings)  Late (herbaceous, shrubs, mature trees)  Dominant species present:  Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali), crested wheatgrass (Agropyron cristatum), winterfat  (Krascheninnikovia lanata), rabbit brush (Chrysothamnus), big sagebrush  (Artemisia tridentata), prickly pear (Opuntia)  If characteristics used to delineate the active floodplain/low terrace boundary were deemed

Project: Rolling Meadows Project Number: 21.1129.009 Stream: Drainage 6 Investigator(s): Seymone O'Bri	ien	Date: 12/6/2022 Town: Colorado Springs Photo begin file#	Time: 1pm State: CO Photo end file#
Y X / N Do normal circumstance		Location Details: Nort	·
$Y \square / N \boxed{X}$ Is the site significantly	disturbed?	<b>Datum:</b> Project <b>Coordinates:</b> 38.768430	
Notes: Discontinuous stream chann	el. Very shallow and o	completely dry without ev	vidence of recent flows.
<b>Brief site description:</b> Fully vegeta Bradley Road	-	he northern section of the	Project Area. North of
Checklist of resources (if available	e):		
X Aerial photography Dates:	Stream ga Gage num	<del>-</del>	
X Topographic maps	Period of		
Scale:		neter / level	
Geologic maps		y of recent effective discha	arges
X Vegetation maps		s of flood frequency analy	0
X Soils maps		ecent shift-adjusted rating	
Rainfall/precipitation maps		neights for 2-, 5-, 10-, and	
Existing delineation(s) for site	_	ecent event exceeding a 5	•
X Global positioning system (GPS)		ocomo o vento entre e dans a c	j our overs
Other studies	,		
	1		C 1 1 4
The dominant Wentworth size class to	•		
is recorded in the average sediment to	Wentworth size class	maracteristics section for ti	le zone of interest.
Millimeters (mm) Inches (in)	ш.	drogeomorphic Floodplain Units - Inte	rmittent and Ephemeral Channel Forms
10.08 — — — 256 — —	Boulder	(representative	cross-section)
2.56 — — — 64 — -	Cobble — — — — — — — — — — — — — — — — — — —	Active Floodplain	Low Terrace
0.157 4	Pebble		
0.079 — 2.00 —	Granule		- 4
0.039 — — — 1.00 — -	Very coarse sand	L June June	The state of the s
0.020 — — 0.50 — -	Coarse sand	YY	
	Medium sand	Low-Flow Channels	Paleo Channel
1/2 0.0098 — — — 0.25 — —	+ — — — - 0) Fine sand	Services administra	
1/4 0.005 — — — 0.125 — —	Very fine sand		
1/8 — 0.0025 — 0.0625		) cm 1 2 3 4	5 6 7 8
1/16 0.0012 — — — 0.031 — -	↓	7 Cili 1 2 3 4	5 0 1 0
1/32 0.00061 — — 0.0156 — -	+ − − − − - 歳	111111111111111111111111	
1/64 0.00031 — — — 0.0078 — -			
0.0010	Fine silt Very fine silt	) in 1	2 3

X	Walk the channel and floodplain within the study area to get an impression of the vegetation and geomorphology present at the site. Record any potential anthropogenic influences on the channel system in "Notes" above.
X	Locate the low-flow channel (lowest part of the channel). Record observations.
	Characteristics of the low-flow channel:
	Average sediment texture: <u>Sandy-loam/Clay</u>
	Total veg cover: <u>80</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>80</u> %
	Community successional stage:
	□ NA       □ Mid (herbaceous, shrubs, saplings)         ▼ Early (herbaceous & seedlings)       □ Late (herbaceous, shrubs, mature trees)
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian thistle (Salsola kali)
	Other:
X	Walk away from the low-flow channel along cross-section. Record characteristics of the low-flow/active floodplain boundary.
	Characteristics used to delineate the low-flow/active floodplain boundary:
	Change in total veg cover
X	Continue walking the channel cross-section. Record observations below.
	<u>Characteristics of the low-flow channel:</u>
	Average sediment texture: <u>Clay</u>
	Total veg cover: <u>20</u> % Tree: <u>0</u> % Shrub: <u>0</u> % Herb: <u>20</u> %
	Community successional stage:
	<ul> <li>□ NA</li> <li>□ Mid (herbaceous, shrubs, saplings)</li> <li>□ Late (herbaceous, shrubs, mature trees)</li> </ul>
	Dominant species present: Blue grama (Bouteloua gracilis), fetid marigold (Dyssodia papposa), Russian
	thistle (Salsola kali)
	Other:

X	Continue walking the channel cross-section. Record indicators of the active floodplain/low terrace boundary.
	Characteristics used to delineate the active floodplain/ low terrace boundary:
	Change in average sediment texture Change in total veg cover Change in overall vegetation maturity Change in dominant species present Other Presence of bed and bank Drift and/or debris Other: Other:
X	Walk the active floodplain/low terrace boundary both upstream and downstream of the cross-section to verify that the indicators used to identify the transition are consistently associated the transition in both directions.
	Consistency of indicators used to delineate the active floodplain/low terrace boundary:
	Y N X Change in average sediment texture Y N X Change in total veg cover Tree Shrub Herb Y N X Change in overall vegetation maturity Y N X Change in dominant species present Y N X Other: Y N Presence of bed and bank Y N Drift and/or debris Y N Other: Y N Other: Y N Other:
X	If the characteristics used to delineate the active floodplain/low terrace boundary were NOT consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.
X	consistently associated with the transition in both the upstream and downstream directions,
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA Mid (herbaceous, shrubs, saplings)
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA
	consistently associated with the transition in both the upstream and downstream directions, repeat all steps above.  Continue walking the channel cross-section. Record characteristics of the low terrace.  Characteristics of the low terrace:  Average sediment texture: Clay  Total veg cover: 20 % Tree: 0 % Shrub: 0 % Herb: 20 %  Community successional stage:  NA



**Appendix D: 2021 Wetland Assessment and Delineation Report** 



2435 Research Pkwy, Suite 300 Colorado Springs, Colorado 80920

Phone: 719.575.0100 Fax: 719.575.0208 matrixdesigngroup.com

Date: 22 September 2021

**To:** Tony Martinez, U.S. Army Corps of Engineers

From: Tierney Walsh, Matrix Environmental Services

**Subject:** Wetland Assessment and Delineation Report – Rolling Hills Development at

Jimmy Camp Creek East Tributary, West of S Meridian Road and South of

Drennan Road, El Paso County, Colorado

#### Mr. Martinez,

On behalf of the Landhuis Company, Matrix Environmental Services, LLC (MES) is pleased to submit this report summarizing the assessment and delineation of wetlands within the Rolling Hills development area (the Site), which is located west of S. Meridian Road and south of Drennan Road in El Paso County, Colorado.

The scope of work for the wetland assessment and delineation included the entire Site, which totals approximately 1,025 acres. Similar plant communities were identified throughout the Site; therefore, the observed plant communities were divided into eight distinct communities with one data sample point collected in each community.

The assessment and delineation field work were conducted May 13-14, 2021 (Communities 1-5) and August 7-8, 2021 (Communities 6-8). Climatic and hydrologic conditions at the Site were drier than average for the time of year during the May assessment due to below-normal rainfall; however, conditions were normal during the August assessment. The wet season in Colorado Springs is between April and September, peaking in July and August.

Community 1 includes the relatively flat area identified as a seasonally flooded, intermittent riverine system by the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI), which is unnamed and shown by the USFWS NWI to converge with the Jimmy Camp Creek East Tributary at a point approximately 1.75-miles southwest. Community 1 is dominated by common kochia (*Bassia scoparia*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. Community 1 vegetation also includes minor amounts of groundplum milkvetch (*Astragalus crassicarpus*), lamb's quarters (*Chenopodium album*) and musk thistle (*Carduus nutans*). No hydric soil indicators were observed within the area's sandy clay soils. Additionally, saturation and a water table were not observed within Community 1: soil was dry to a depth of 28 inches. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils and a lack of wetland hydrology.

Community 2 includes a small depression near the eastern boundary of the Site, which is dominated by Russian olive (*Elaeagnus angustifolia*), common kochia (*Bassia scoparia*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. Community 2 vegetation also includes minor amounts of field bindweed (*Convolvulus arvensis*) and Russian thistle (*Salsola tragus*). No hydric soil indicators were observed within the area's sandy clay loam and clay soils. Additionally, saturation and a water table were not observed within Community 2 despite the soil pit being advanced to 42 inches below the ground surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils and a lack of wetland hydrology.

Community 3 includes the drainage swale identified as Jimmy Camp Creek East Tributary, which is dominated by common kochia (*Bassia scoparia*), a grass that was not identifiable at the time of assessment due to the lack of inflorescence and Woods' rose (*Rosa woodsii*). Community 3 vegetation also includes minor amounts of curly dock (*Rumex crispus*) and Russian thistle (*Salsola tragus*). No hydric soil indicators were observed within the area's sandy loam, loamy sand and sand soils. Additionally, saturation and a water table were not observed within Community 3 despite the soil pit being advanced to 52 inches below the ground surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils and a lack of wetland hydrology.

Community 4 includes the relatively flat area identified as a seasonally flooded, intermittent riverine system by the USFWS NWI, which the NWI shows to converge onsite with Jimmy Camp Creek East Tributary. Community 4 is dominated by common kochia (*Bassia scoparia*) and field bindweed (*Convolvulus arvensis*) with minor amounts of lamb's quarters (*Chenopodium album*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. No hydric soil indicators were observed within the area's sandy loam and sandy clay loam soils. Additionally, saturation and a water table were not observed within Community 4 despite the soil pit being advanced to 38 inches below the ground surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of dominance of hydrophytic vegetation, a negative prevalence index, the lack of hydric soils and a lack of wetland hydrology.

Community 5 includes a depression near the eastern boundary of the Site within the area identified as a seasonally flooded, intermittent riverine system by the USFWS NWI. Community 5 is dominated by field bindweed (*Convolvulus arvensis*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. Vegetation in Community 5 also includes minor amounts of lamb's quarters (*Chenopodium album*) and common kochia (*Bassia scoparia*). No hydric soil indicators were observed within the area's sandy clay and sandy loam soils. Additionally, saturation and a water table were not observed within Community 5: soil was dry to a depth of 38 inches. However, oxidized rhizospheres along living roots were detectable within 12 inches of the soil surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils.

Community 6 is approximately 0.18 acres and includes a drainage channel associated with a windmill-powered well south of Bradley Road. Community 6 is dominated by foxtail barley (Hordeum jubatum) and common kochia (Bassia scoparia) with minor amounts of lamb's quarters (Chenopodium album), Canada thistle (Cirsium arvense), field bindweed (Convolvulus arvensis) and alfalfa dodder (Cuscuta approximata). The community had visible surface water in approximately 30% of the area, surface soil cracks, algal mats and oxidized rhizospheres along living roots from 4-12 inches. Additionally, 5% prominent redox concentrations from 4-12 inches satisfy the criteria for redox dark surface. In my professional opinion, this community meets the criteria to be identified as a wetland based on the predominance of hydrophytic vegetation and the observation of hydric soil and wetland hydrology indicators.

Community 7 is located immediately south of Community 6 and includes the southern edge of the drainage channel that forms Community 6. Community 7 is dominated by blue grama (Bouteloua gracilis) and common kochia (Bassia scoparia) with minor amounts of lamb's quarters (Chenopodium album), alfalfa dodder (Cuscuta approximata), annual meadow grass (Poa annua), proso millet (Panicum miliaceum), common sunflower (Helianthus annuus) and golden crownbeard (Verbesina encelioides). No hydric soil indicators were observed within the area's silty clay loam and sandy loam soils. Additionally, saturation and a water table were not observed within Community 7: soil was dry to a depth of 30 inches. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of dominance of hydrophytic vegetation, a negative prevalence index, lack of hydric soils, and a lack of wetland hydrology indicators.

Community 8 includes the relatively flat area identified as Jimmy Camp Creek East Tributary south of Bradley Road, which the USFWS NWI describes as a seasonally flooded, intermittent riverine system. Community 8 is dominated by blue grama (Bouteloua gracilis), lamb's quarters (Chenopodium album) and red-root amaranth (Amaranthus retroflexus) with minor amounts of pineapple-weed (Matricaria discoidea), common kochia (Bassia scoparia), golden crownbeard (Verbesina encelioides) and curly dock (Rumex crispus). No hydric soil indicators were observed within the area's clay loam and silty loam soils. Additionally, saturation and a water table were not observed within Community 8: soil was dry to a depth of 48 inches. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of dominance of hydrophytic vegetation, a negative prevalence index, the lack of hydric soils and a lack of wetland hydrology.

According to the National Resources Conservation Service's Web Soil Survey, most soils within the Site are classified as Sampson loam, except soils within Community 3 which are classified as Ellicott loamy coarse sand. Additionally, portions of the Site are classified as wetlands according to the USFWS NWI map, including communities 1, 3, 4, 5 and 8 which the NWI describes as temporarily or seasonally flooded riverine habitats.

Flags were placed along the boundaries of areas identified as wetlands within the Site, which was limited to Community 6 as indicated in the attached figure.

The professional opinions made in this report regarding the location and extent of areas that do or do not satisfy the criteria of a wetland were determined pursuant to the Army Corps of Engineer's Regional Supplement and appropriate guidance and pursuant to confirmation by appropriate regulatory staff including but not limited to the Army Corps of Engineers.

Please contact Ms. Tierney Walsh at 719-457-5613 or Tierney. Walsh@matrixdesigngroup.com should you have any questions or comments.

Sincerely,

Matrix Environmental Services, LLC

Tierney Walsh

**Environmental Scientist** 

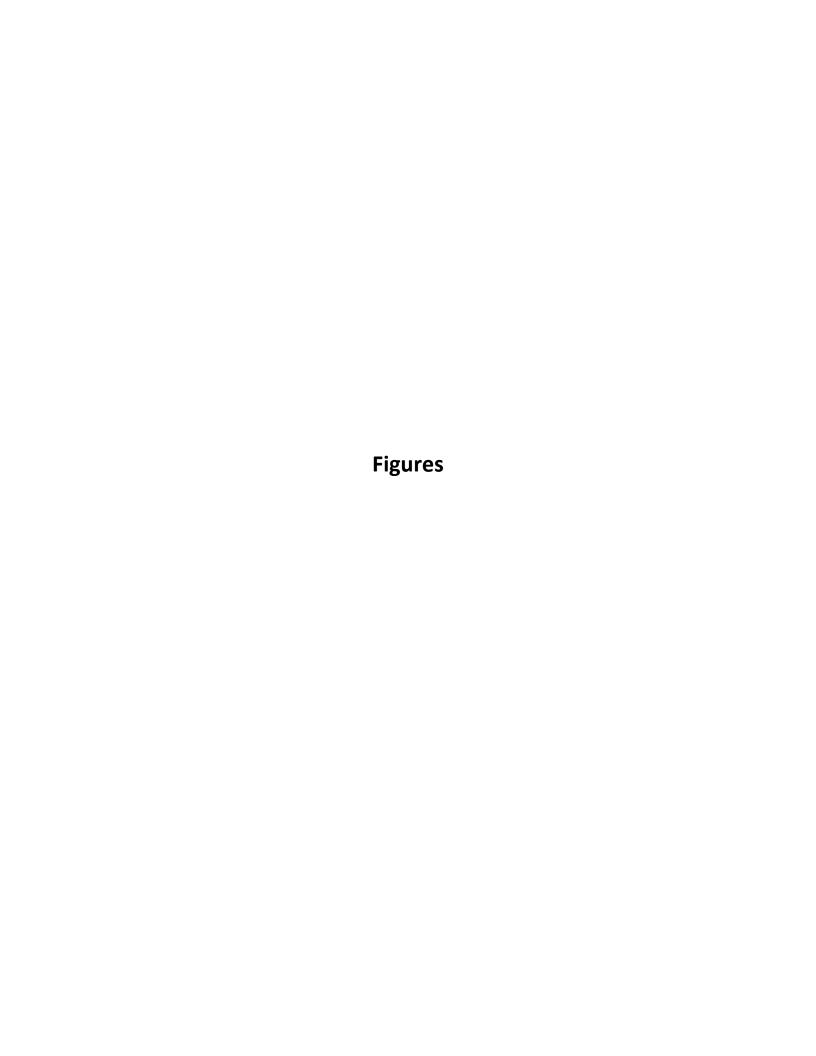
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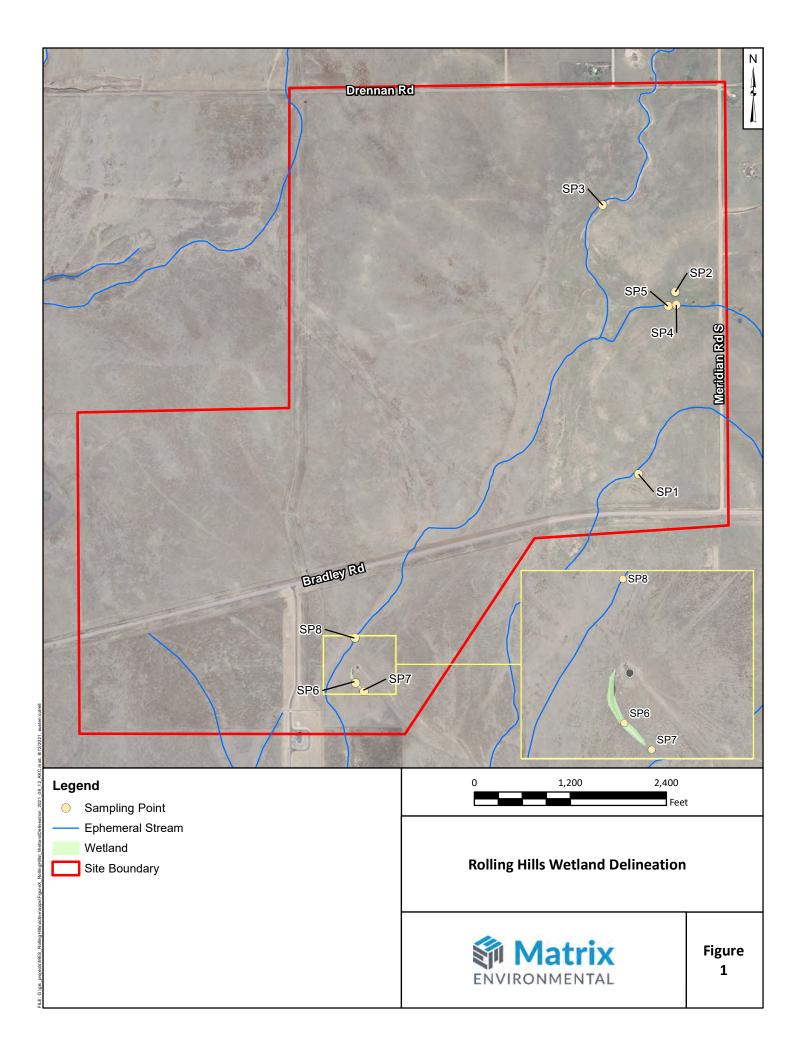
Site Figure

**Photolog** 

Field Data Forms

cc: Mr. Jeff Mark, The Landhuis Company





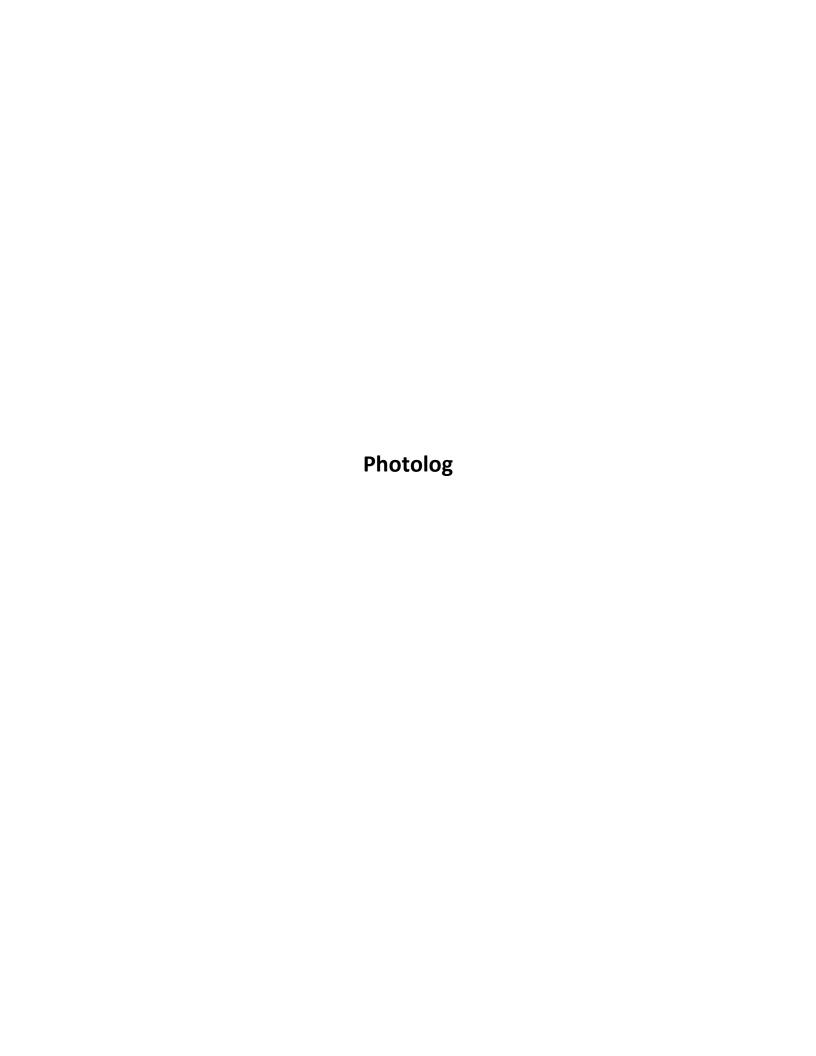




Photo 1- Community 1 includes a relatively flat area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit shown in center of foreground.



Photo 3 – Community 2 includes a small depression near the eastern boundary of the Site. Test pit is in the center of the middle ground.



Photo 2 – Community 1's sandy clay soils didn't exhibit hydric soil indicators. Additionally, saturation and a water table were not encountered despite the soil pit extending to a depth of 28 inches.



Photo 4 – Community 2's sandy clay loam and clay soils didn't exhibit hydric soil indicators. Additionally, saturation and a water table were not encountered despite the soil pit extending to a depth of 42 inches.





Photo 5 – Community 3 includes the drainage swale identified as Jimmy Camp Creek East Tributary. Test pit is in the center of the foreground.



Photo 7 – Community 4 includes a relatively flat area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit is in the center of the middle ground.



Photo 6 – Community 3's sandy loam, loamy sand and sand soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 52 inches.



Photo 8 – Community 4's sandy loam and sandy clay loam soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 38 inches.





Photo 9 – Community 5 includes a depression near the eastern boundary of the Site within the area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit is on the left in the middle ground.



Photo 11 – Community 6 is approximately 0.18 acres and includes a drainage channel associated with a windmill-powered well south of Bradley Road. Test pit is partially shown in the center of the foreground.



Photo 10 – Community 5's sandy clay and sandy loam soils didn't exhibit hydric soil indicators; however, oxidized rhizospheres along living roots were detectable within 12 inches of the soil surface.



Photo 12 – Community 6's sandy loam soils contained 5% prominent redox concentrations from 4-12 inches, which satisfied the criteria for redox dark surface.





Photo 13 – Community 7 includes the southern edge of the drainage channel that forms Community 6. Test pit is in the center of the middle ground.



Photo 15 – Community 8 includes a relatively flat area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit is in the center of the foreground.

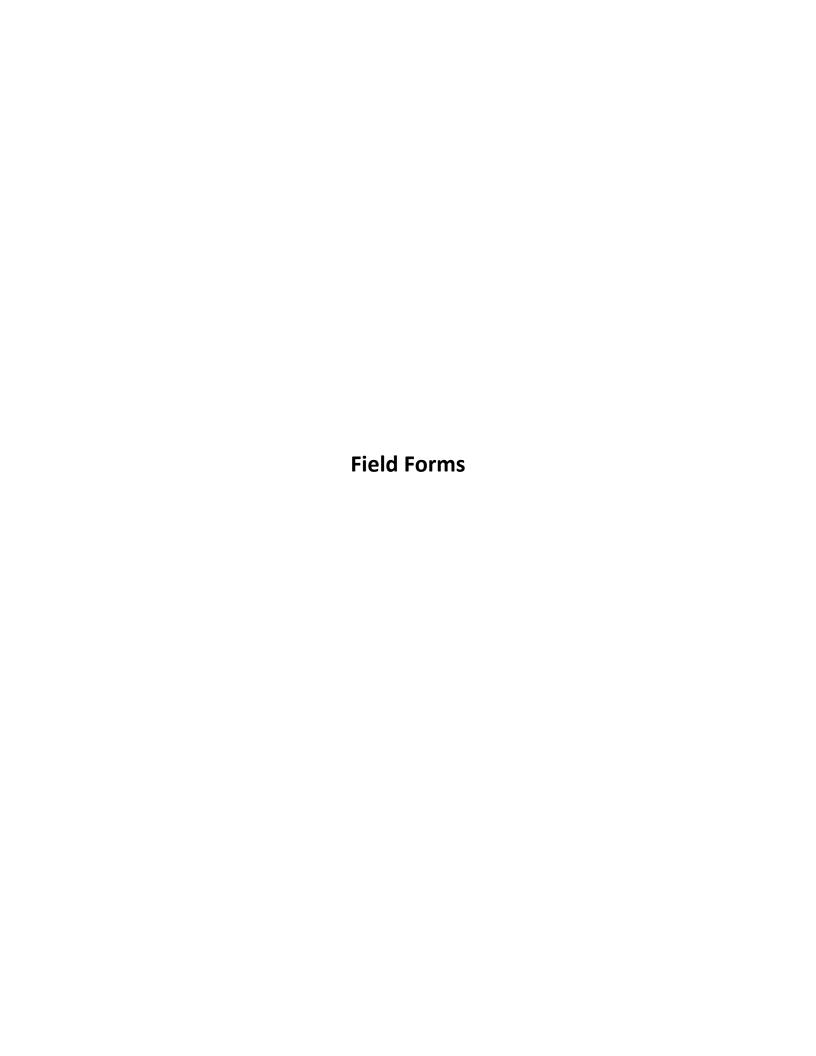


Photo 14 – Community 7's silty clay loam and sandy loam soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 30 inches.



Photo 16 – Community 8's clay loam and silty loam soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 48 inches.





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

Applicant/Owner: Murray Fountain LLC				State: CO Sampling Point: 1
T Wolch and A Davis		Section To	washin Pa	S1 T15S R65W
andform (hillslope, terrace, etc.):	144	Jacob selle	( / consour	convey panels 10 (SM)
androrm (nillslope, terrace, etc.):	voundary	Local relie	(concave.	Slope (%): 0
				Long: W 104. 612199 Datum: WGS 8
Soil Map Unit Name: Sampson 100m				
are climatic / hydrologic conditions on the site typical for thi	is time of year	ar? Yes _	No_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point l	locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes N		T x 3		
Hydric Soil Present? Yes N		110000	ie Sampleo in a Wetla	
Wetland Hydrology Present? Yes N	10	Witt	illi a vvetia	ndr resNov_
Remarks:	1		4	
Moderate Drought in area de	unog a	asses	men	( Drought - gov)
/EGETATION – Use scientific names of plan	nts.			
Tree Stratum (Plot size:)	Absolute	Dominant		Dominance Test worksheet:
1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
•				mat Ale OBL, FACW, of FAC(A)
3.				Total Number of Dominant Species Across All Strata:  2 (B)
4				
		= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1,				Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4	-			FAC species 20 x3 = 60
5		= Total Co	var	FACU species x 4 = 12
Herb Stratum (Plot size: ≰	\		VCI	UPL species 2 x 5 = 10
1. imidentifiable grass (no reproductive	160.1-	7_	NA	Column Totals: <u>25</u> (A) <u>82</u> (B)
2. 1005516 SLOPARIA	70.1.		FAC	Prevalence Index = B/A =3.28
3. Astragalus crassicarpus	5%	N	_NI_	Hydrophytic Vegetation Indicators:
4. Chenopodium album	2./-	N	FACU	1 - Rapid Test for Hydrophytic Vegetation
5. Cardum nutans	2:1-	N	upl.	2 - Dominance Test is >50%
6. Semicio crassillus	17.	_N_	FACU	3 - Prevalence Index is ≤3.0¹
7				4 - Morphological Adaptations (Provide supporting
8				data in Remarks or on a separate sheet)  5 - Wetland Non-Vascular Plants
9				Problematic Hydrophytic Vegetation¹ (Explain)
11				Indicators of hydric soil and wetland hydrology must
	90%	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		, oldi oo	Ci	
1,	-			Hydrophytic
2	-			Vegetation
% Bare Ground in Herb Stratum 10.		= Total Cov	er	Present? Yes No
% Bare Ground in Horo Gratam 1971 Remarks:				
LIGHTAINS				
& sampled entire plant community	L			

		1
Sampling	Point: _	1

ile Description: (Descri	e to the dep								
othMatrix			x Feature			41.4.2.5		Domarke	
hes) Color (moist)		Color (moist)	%	Type	Loc	Texture		Remarks	
11.5 104R22	100/					sardy do	n	wist.	
5-20 10.4R3/2	99.1	, 104R58	11-			grandy do	uzhar	didry	
-29 104R312	98%	10 YES 8	2.1.	C	M	Sandydo	en har	1, duy	
0 10 12 12		-10 11 7			A 4	1	0	, 8	
	-								
			-			-			_
						-		7	
ype: C=Concentration, D=	Danielian Di	A-Dadused Matrix C	S-Covered	or Coate	d Sand G	Grains <sup>2</sup> Lo	cation: Pl	=Pore Lining, M=	Matrix
ydric Soil Indicators: (Ap	dicable to a	II I RRs unless othe	rwise not	ed.)	u oanu c			oblematic Hydric	
- 19 N. M. H.	oncable to a			,			m Muck (A	27	
Histosol (A1) Histic Epipedon (A2)		<ul><li>Sandy Redox</li><li>Stripped Matrix</li></ul>					and the second s	aterial (TF2)	
Black Histic (A3)		Loamy Mucky		) (except	MLRA 1			Dark Surface (TF1	(2)
Hydrogen Sulfide (A4)		Loamy Gleyed						in Remarks)	
Depleted Below Dark Su	rface (A11)	Depleted Matr							
Thick Dark Surface (A12		Redox Dark S	urface (F6)					ophytic vegetation	
Sandy Mucky Mineral (S		Depleted Dark	The state of the s	7)	9670			gy must be prese	nt,
Sandy Gleyed Matrix (Se		Redox Depres	sions (F8)	3	7/1/8/3	unles	s disturbe	d or problematic.	
estrictive Layer (if preser	t):			24.	1/2				
Type:					Mrs. Mrs				/
					6.8CTY-32.78				
Depth (inches):Remarks:			À			Hydric Soil	Present?	Yes	No <u>~</u>
			À			Hydric Soil	Present?	Yes	No <u>~</u>
Remarks:	ors:				*		Present?	Yes	No_ <u>~</u>
YDROLOGY		red; check all that app	oly)					Yesators (2 or more re	
Remarks: YDROLOGY Wetland Hydrology Indicat		the state of the s	oly) ained Leav	es (B9) (e		Secon	ndary Indica		quired)
YDROLOGY Wetland Hydrology Indicators (minimum		Water-St				Secon W	ndary Indica dater-Staine 4A, and 4	ators (2 or more reed Leaves (B9) (M	quired)
YDROLOGY Wetland Hydrology Indicat Primary Indicators (minimun Surface Water (A1)		Water-St	ained Leav			Secon W	ndary Indica dater-Staine 4A, and 4	ators (2 or more re	quired)
YDROLOGY Wetland Hydrology Indicate Primary Indicators (minimun Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one requi	Water-St MLRA Salt Crus Aquatic I	ained Leav A 1, 2, 4A, a It (B11) nvertebrate	and 4B) s (B13)		Secon	dary Indica /ater-Staine 4A, and 4 rainage Pa ry-Season	ators (2 or more re ed Leaves (B9) (M IB) tterns (B10) Water Table (C2)	quired)
YDROLOGY  Wetland Hydrology Indicate  Primary Indicators (minimun  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	of one requi	Water-St MLRA Salt Crus Aquatic I Hydroger	ained Leav A 1, 2, 4A, a at (B11) nvertebrate n Sulfide Od	and 4B) s (B13) dor (C1)	xcept		dary Indica dater-Staine 4A, and 4 rainage Pa ry-Season Vi	ators (2 or more re ed Leaves (B9) ( <b>M</b> <b>IB)</b> tterns (B10) Water Table (C2) sible on Aerial Ima	quired)
YDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimun  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	of one requi	Water-St MLRA Salt Crus Aquatic I Hydroger Oxidized	ained Leav A 1, 2, 4A, a at (B11) nvertebrate n Sulfide Od Rhizosphe	s (E13) dor (C1) res along	xcept Living Roc	Secor  — W  — D  — D  — So  obs (C3) — G	dary Indica later-Staine 4A, and 4 rainage Pa ry-Season Vi eomorphic	ators (2 or more reed Leaves (B9) (MB) Itterns (B10) Water Table (C2) sible on Aerial Ima	quired)
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Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on A  Sparsely Vegetated Co  Field Observations:  Surface Water Present?	of one requi	Water-St MLRA  Salt Crus Aquatic II Hydroger Oxidized Presence Recent II Stunted C Other (Exercise)	ained Leav A 1, 2, 4A, a at (B11) invertebrate in Sulfide Od Rhizosphe e of Reduce fron Reduction Stressed applain in Re	s (613) dor (C1) res along l d Iron (C4 on in Tillec Plants (D* marks)	xcept Living Roce  3) 3 Soils (C6	Secon  W  D  Signature  Signature	dary Indica /ater-Staine 4A, and 4 rainage Pa ry-Season aturation Vi eomorphic eomorphic nallow Aqui AC-Neutral aised Ant M	etors (2 or more reed Leaves (B9) (MB) Itterns (B10) Water Table (C2) sible on Aerial Ima Position (D2) tard (D3) Test (D5) founds (D6) (LRR	quired) LRA 1, 2,
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YDROLOGY  Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on A  Sparsely Vegetated Co  Field Observations:  Surface Water Present?  Water Table Present?	of one requi	Water-St MLRA  Salt Crus Aquatic II Hydroger Oxidized Presence Recent II Stunted (CONTEXT) Other (EXTEXT) Pepth (II No Depth (II DEPTH (	ained Leav A 1, 2, 4A, a at (B11)  nvertebrate n Sulfide Oc Rhizosphe e of Reduce ron Reducti or Stressed xplain in Re  nches):	s (613) dor (C1) res along lid Iron (C4 on in Tillec Plants (D' marks)	Living Root) d Soils (C61) (LRR A	Secon	adary Indica /ater-Staine 4A, and 4 rainage Pa ry-Season aturation Vi eomorphic nallow Aqui AC-Neutral aised Ant Most-Heave	etors (2 or more reed Leaves (B9) (MB) Itterns (B10) Water Table (C2) sible on Aerial Ima Position (D2) Itard (D3) Test (D5) Iounds (D6) (LRR Hummocks (D7)	quired) LRA 1, 2,
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Rolling Hills - East Tributary to Jimmy Camp Creek City/County: Colorado Springs - El Paso County Sampling Date: 5 3 2 Applicant/Owner: Murray Fountain LLC State: CO Sampling Point: \_\_ Investigator(s): T. Walsh and A. Davis Section, Township, Range: S1 T15S R65W Landform (hillslope, terrace, etc.): Applishing Local relief (concave, convex, none): \_\_\_\_\_\_\_\_\_ Slope (%): Lat: N 38.774 002 Long 104-610502 Datum: W65 8 Subregion (LRR): D NWI classification: None Soil Map Unit Name: Sampson Loam No \_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_ Are "Normal Circumstances" present? Yes \_\_\_\_ No \_\_\_ Are Vegetation \_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Moderate drought in area during assessment (drought.gov) VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \* % Cover Species? Status Number of Dominant Species 1. 21 acagnus angustifolia That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species OO · \_ = Total Cover (A/B) That Are OBL. FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x1= FACW species x 2 = 116 x3= 330 FACU species = Total Cover UPL species Herb Stratum (Plot size:\* 1. Bassia scoparia Column Totals: 115 2 unidentifiable gruss (warm stason ass) 20%. Prevalence Index = B/A = 3. Convolvulus arvensis 10.1 Hydrophytic Vegetation Indicators: 4. Salsola tragus 1 - Rapid Test for Hydrophytic Vegetation + 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ = 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants — Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and welland hydrology must 55 /. = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: \_\_\_\_\_) Hydrophytic. Vegetation Present? = Total Cover % Bare Ground in Herb Stratum 451. \* sampled entire plant community

Sampling Point: _	
Sampling Fork	.7

ofile Description: (Describe	to the dept	in needed to docu						
epth <u>Matrix</u>			ox Feature		-	20.0		40000
ches) Color (moist)	- %	Color (moist)	%	Type	_Loc2	Texture		Remarks
)-6 104R 3/3	108%					Surdy ilan	loan	mist
1-13 1042 212	100%					class	drive	mic wanted, Ca
3-21 104R312	99-1	104R312	1-/	C	PI.	Cloud	DWISE	
			+ 1.		10			1.15-
1-31 love 4/2	50/	ME .	_			- Chean	Morst	Lacoz.
1041212	50%					1		
31-42 104R513	98-1	104R 5/8	2-1.	C	M	lowy sand	Most	
		N.						
Type: C=Concentration, D=De	pletion RM:	=Reduced Matrix. C	S=Covere	d or Coate	ed Sand G	Grains. <sup>2</sup> Loo	cation: PL=F	Pore Lining, M=Matrix.
ydric Soil Indicators: (Appli								lematic Hydric Soils <sup>3</sup> :
Histosol (A1)		- Sandy Redox				- 2 cm	Muck (A10	)
Histic Epipedon (A2)		_ Stripped Matrix					Parent Mat	
Black Histic (A3)		_ Loamy Mucky		1) (excep	MLRA 1	) Ven	Shallow Da	ark Surface (TF12)
Hydrogen Sulfide (A4)		_ Loamy Gleyed	The second second				er (Explain in	Remarks)
<ul> <li>Depleted Below Dark Surfa</li> </ul>	ce (A11)	_ Depleted Matri						
Thick Dark Surface (A12)		Redox Dark Si						hytic vegetation and
Sandy Mucky Mineral (S1)		_ Depleted Dark						y must be present,
Sandy Gleyed Matrix (S4)		Redox Depres	sions (F8)			unles	s disturbed	or problematic.
estrictive Layer (if present):								
Type:								/
Depth (inches):						1	December 2	Yes No V
Remarks:		7				Hydric Soil	Present?	165 110
YDROLOGY		7				Hydric Soil	Present?	165 100
Remarks: YDROLOGY Wetland Hydrology Indicator		ad: check all that an	nlv)					
Primary Indicators (minimum o				(BQ) (BQ)	weant	Secon	dary Indicate	ors (2 or more required)
YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1)		_ Water-St	tained Leav		except	Secon	dary Indicate	ors (2 or more required) Leaves (B9) (MLRA 1, 2
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)		─ Water-St	tained Leav A 1, 2, 4A,		except	Secon	dary Indicate ater-Stained 4A, and 4E	ors (2 or more required) Leaves (B9) (MLRA 1, 2
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the content		─ Water-St  MLRA  — Salt Crus	tained Leav A 1, 2, 4A, st (B11)	and 4B)	except	Secon	dary Indicate ater-Stained 4A, and 4E rainage Patte	ors (2 or more required) Leaves (B9) (MLRA 1, 2 3) erns (B10)
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the content		─ Water-St  MLRA  — Salt Crus  — Aquatic I	tained Leav A 1, 2, 4A, st (B11) Invertebrate	and 4B) es (B13)	except	Secon  W	dary Indicate dater-Stained 4A, and 4E rainage Pattery-Season W	ors (2 or more required) Leaves (B9) (MLRA 1, 2 3) erns (B10) /ater Table (C2)
YDROLOGY  Netland Hydrology Indicator  Primary Indicators (minimum of the content		Water-St MLRA Salt Crus Aquatic I Hydroger	tained Leav A 1, 2, 4A, st (B11) Invertebrate In Sulfide O	and 4B) es (B13) edor (C1)		Secon  W D D S S S	dary Indicate dater-Stained 4A, and 4E rainage Pattery-Season W aturation Vis	ors (2 or more required) Leaves (B9) (MLRA 1, 2 3) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the content		─ Water-St  MLRA  — Salt Crus  — Aquatic I  — Hydroges — Oxidized	tained Leaven A 1, 2, 4A, st (B11) invertebrate n Sulfide O	es (B13) dor (C1) eres along	Living Ro	Secon  — W  — Di  — Si  ots (C3) + G	dary Indicate ater-Stained 4A, and 4E rainage Pattery-Season W aturation Vis eomorphic P	ors (2 or more required) Leaves (B9) (MLRA 1, 2 3) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 rosition (D2)
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Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)		Water-St MLRA Salt Crus Aquatic I Hydroger Oxidized Presence	tained Leav A 1, 2, 4A, st (B11) invertebrate in Sulfide O Rhizosphe e of Reduction Reduction	es (B13) dor (C1) eres along ed Iron (C	Living Ro 4) d Soils (C	Secon  — W  — D  — S  ots (C3) + G  — SI  6) — F	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Viseomorphic P nallow Aquita AC-Neutral T	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	f one require	Water-St MLRA Salt Crus Aquatic I Hydroget Oxidized Presence Recent II	tained Leav A 1, 2, 4A, st (B11) invertebrate in Sulfide O Rhizosphe e of Reduct ron Reduct or Stressed	es (B13) dor (C1) eres along ed Iron (C ion in Tille d Plants (D	Living Ro 4) d Soils (C	Secon  W D D D S S Ots (C3) + G C S S A) - R	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A)
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Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concerns	f one require	Water-St MLRA Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted (	tained Leav A 1, 2, 4A, st (B11) invertebrate in Sulfide O Rhizosphe e of Reduct ron Reduct or Stressed	es (B13) dor (C1) eres along ed Iron (C ion in Tille d Plants (D	Living Ro 4) d Soils (C	Secon  W D D D S S Ots (C3) + G C S S A) - R	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeric Sparsely Vegetated Concertications:	f one require	Water-St MLRA  Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted ( Other (E)	tained Leav A 1, 2, 4A, st (B11) invertebrate in Sulfide O Rhizosphe e of Reduction Reduction ron Reduction Stressed explain in Re	es (B13) dor (C1) eres along ed Iron (C ion in Tille d Plants (D	Living Ro 4) d Soils (C	Secon  W D D D S S Ots (C3) + G C S S A) - R	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A)
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Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Concertications:  Surface Water Present?  Water Table Present?	f one require al Imagery (l ave Surface	Water-St MLRA Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted ( Other (E) (B8)  No Depth (i)	tained Leavanne Leava	es (B13) dor (C1) eres along ed Iron (C ion in Tille d Plants (C emarks)	Living Ro 4) ed Soils (C 01) (LRR A	Secon  W D D D S S Ots (C3) + G C S S A) - R	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo ost-Heave H	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A) lummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Concertical Concertica	al Imagery (lave Surface  Yes Yes	Water-St MLRA  Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted ( Other (E.  No Depth (i) No Depth (i)	tained Leav A 1, 2, 4A, st (B11) Invertebrate In Sulfide O Rhizosphe In Great Reduct In Stressed In Stressed Inches): Inches	es (B13) bdor (C1) eres along ed Iron (C ion in Tille d Plants (C emarks)	Living Ro 4) ed Soils (C 01) (LRR A	Secon	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo ost-Heave H	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A) lummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Conce  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (streen	al Imagery (lave Surface  Yes Yes	Water-St MLRA  Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted ( Other (E.  No Depth (i) No Depth (i)	tained Leav A 1, 2, 4A, st (B11) Invertebrate In Sulfide O Rhizosphe In Green Reduct In Stressed In Stressed Inches): Inche	es (B13) bdor (C1) eres along ed Iron (C ion in Tille d Plants (C emarks)	Living Ro 4) ed Soils (C 01) (LRR A	Secon	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo ost-Heave H	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A) lummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Conce  Field Observations:  Surface Water Present?  Water Table Present?  (includes capillary fringe)	al Imagery (lave Surface  Yes Yes	Water-St MLRA  Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted ( Other (E.  No Depth (i) No Depth (i)	tained Leav A 1, 2, 4A, st (B11) Invertebrate In Sulfide O Rhizosphe In Green Reduct In Stressed In Stressed Inches): Inche	es (B13) bdor (C1) eres along ed Iron (C ion in Tille d Plants (C emarks)	Living Ro 4) ed Soils (C 01) (LRR A	Secon	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo ost-Heave H	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A) lummocks (D7)
Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aeri  Sparsely Vegetated Conce  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (streen	al Imagery (lave Surface  Yes Yes	Water-St MLRA  Salt Crus Aquatic I Hydroger Oxidized Presence Recent II Stunted ( Other (E.  No Depth (i) No Depth (i)	tained Leav A 1, 2, 4A, st (B11) Invertebrate In Sulfide O Rhizosphe In Green Reduct In Stressed In Stressed Inches): Inche	es (B13) bdor (C1) eres along ed Iron (C ion in Tille d Plants (C emarks)	Living Ro 4) ed Soils (C 01) (LRR A	Secon	dary Indicate fater-Stained 4A, and 4E rainage Pattery-Season W aturation Vise eomorphic P nallow Aquite AC-Neutral T aised Ant Mo ost-Heave H	ors (2 or more required) Leaves (B9) (MLRA 1, 2 B) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9 osition (D2) ard (D3) fest (D5) ounds (D6) (LRR A) lummocks (D7)

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: Rolling Hills - East Tributary to Jimmy Camp Creek City/County: Colorado Springs - El Paso County Sampling Date: 5 12 21 Applicant/Owner: Murray Fountain LLC State: CO Sampling Point: \_\_\_\_ Section, Township, Range: S1 T15S R65W Investigator(s): T. Walsh and A. Davis Local relief (concave, convex, none): \_\_\_\_\_\_ Slope (%): 6-3']. Landform (hillslope, terrace, etc.): AY www. 5w W Lat: N 38.777078 Long: W104.613583. Datum: WGS 84 Subregion (LRR): D Soil Map Unit Name: Flicott bann (blusse sand NWI classification: R4SBA Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes V No Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_ or Hydrology \_\_\_\_\_ 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? Is the Sampled Area Hydric Soil Present? Yes \_\_\_\_ No \_ 🗸 Yes \_\_\_\_ No\_ within a Wetland? Yes \_\_\_\_\_ No \_ 🗸 Wetland Hydrology Present? Remarks: Moderate drought in area during assessment (drought.gov) VEGETATION – Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size: \_\_\_\_) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant (B) Species Across All Strata: Percent of Dominant Species Sapling/Shrub Stratum (Plot size: ★ That Are OBL, FACW, or FAC: Prevalence Index worksheet: 1. KOSO WOODSII 51/. Y FACU Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species 35\_\_ x3=\_ FAC species (O x 4 = \_ FACU species Herb Stratum (Plot size: \*\* ) ruproductive x 5 = UPL species 1. unidentifiable grass Ino smithues Column Totals: \_\_ 45 2. Bassia scorparia 30.1. Prevalence Index = B/A = 3:22 3. Kumex Crispus 5% N FAC Hydrophytic Vegetation Indicators: 4. Salsola tragis 5%. N 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 80 . = Total Cover Woody Vine Stratum (Plot size: \_\_\_\_\_) Hydrophytic Vegetation Present? \_\_\_\_\_ = Total Cover % Bare Ground in Herb Stratum 201.

\* Sampled entire plant community

Profile Description: (Describe	to the dep	oth needed to docur	nent the i	ndicator	or confirm	n the absence	of indicato	ors.)	
Depth Matrix		Redo	x Features					Remarks	
(inches) Color (moist)	%	Color (moist)	%	Type'	Loc	Texture	-	Remarks	
0-3 104842	100.					Sandy loan			_
3-12 104K4/2	100%					sundy loan	mois		
1/ 1/4	99:1.	104R316	17	C	PL	loany say	id moist		
1-		1010010	-111	-		1 n			
20-33 104R514	100%					_sand.			
					_		-		
Type: C=Concentration, D=De					ed Sand Gr			Pore Lining, M=Ma	
lydric Soil Indicators: (Appli	cable to all	LRRs, unless other	rwise note	ed.)		Indicat	ors for Prob	olematic Hydric So	oils <sup>3</sup> :
Histosol (A1)		_ Sandy Redox (	S5)				m Muck (A1		
Histic Epipedon (A2)		Stripped Matrix					d Parent Ma	the second second second second	
Black Histic (A3)		_ Loamy Mucky I			MLRA 1)			ark Surface (TF12)	)
Hydrogen Sulfide (A4)	(4-4)	Loamy Gleyed				_ Oth	ner (Explain i	in Remarks)	
Depleted Below Dark Surface (A12)	ce (A11)	Depleted Matrix				31	orn of huden	phytic vegetation a	nd
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Redox Dark Su	2000 00 10 10 10 10 10 10 10	71				priytic vegetation a gy must be present	
Sandy Mucky Millerar (S1) Sandy Gleyed Matrix (S4)		Depleted Dark Redox Depress		")				or problematic.	•
		redox Depress	10113 (1 0)			unc	33 distarbed	or problematio.	
testrictive Layer (if present):									
									/
Type:		-				Hydric Soi	l Present?	Yes N	/
Restrictive Layer (if present): Type: Depth (inches): Remarks:						Hydric Soi	I Present?	Yes N	<u>.</u>
Type: Depth (inches): Remarks:						Hydric Soi	I Present?	Yes N	<u></u>
Type: Depth (inches): Remarks:  YDROLOGY						Hydric Soi	I Present?	Yes N	· <u>√</u>
Type: Depth (inches): Remarks:  YDROLOGY Wetland Hydrology Indicators	s:	ed: check all that ann	lv)						· <u> </u>
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators  Primary Indicators (minimum of	s:			ps: (B0) (gs:	vcent	Seco	ndary Indica	ators (2 or more rec	_
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)	s:	─ Water-Sta	ined Leave		xcept	Seco	ndary Indica Vater-Staine	ators (2 or more rec	
Type: Depth (inches): Remarks:  YDROLOGY  Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)	s:	─ Water-Sta	ined Leave 1, 2, 4A, a		xcept	Seco	ndary Indica Vater-Staine 4A, and 4	ators (2 or more rec ed Leaves (B9) (ML	
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	s:	Water-Sta MLRA Salt Crust	ined Leave 1, 2, 4A, a (B11)	ind 4B)	xcept	<u>Seco</u>	ndary Indica Vater-Staine 4A, and 4 Orainage Pa	ators (2 or more rec ed Leaves (B9) (ML IB) Iterns (B10)	
Type:	s:	Water-Sta MLRA Salt Crust Aquatic In	1, 2, 4A, a (B11) vertebrate	and 4B) s (B13)	xcept	Seco	ndary Indica Vater-Staine 4A, and 4 Orainage Pa Ory-Season	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2)	.RA 1, 2
Type:	s:	Water-Sta MLRA Salt Crust Aquatic In Hydrogen	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc	s (B13) for (C1)		<u>Seco</u>	ndary Indica Vater-Staine 4A, and 4 Orainage Pai Ory-Season Value	ators (2 or more rec ed Leaves (B9) (ML IB) Itterns (B10) Water Table (C2) isible on Aerial Ima	.RA 1, 2
Type:	s:	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I	1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizospher	s (B13) dor (C1) res along	Living Roo	Seco	ndary Indica Vater-Staine 4A, and 4 Orainage Par Ory-Season Vi Saturation Vi Geomorphic	ators (2 or more rec ed Leaves (B9) (ML IB) Itterns (B10) Water Table (C2) isible on Aerial Ima Position (D2)	.RA 1, :
Type:	s:	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I	1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizospher of Reduce	s (B13) dor (C1) res along d Iron (C-	Living Roo	Seco	ndary Indica Vater-Staine 4A, and 4 Orainage Pa Ory-Season V Saturation Vi Geomorphic Shallow Aqu	ators (2 or more rec ed Leaves (B9) (ML IB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3)	.RA 1, :
Type:	s:	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Iro	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizosphei of Reduce	s (B13) dor (C1) res along d Iron (Co	Living Roo 4) d Soils (C6	Seco	Andary Indicative  Vater-Staine  4A, and 4  Orainage Pai  Ory-Season Vi  Saturation Vi  Geomorphic  Shallow Aqui  FAC-Neutral	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5)	RA 1,
Type:	s: one require	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Iro  Stunted o	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizosphei of Reduce on Reduction	s (B13) for (C1) res along d Iron (Co on in Tille Plants (D	Living Roo 4) d Soils (C6	Seco	ndary Indica Vater-Staine 4A, and 4 Drainage Pai Dry-Season Vices Saturation Vices Shallow Aqui FAC-Neutral Raised Ant M	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR	RA 1, :
Type:	s: one require	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Iro  Stunted or  Other (Ex	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizosphei of Reduce	s (B13) for (C1) res along d Iron (Co on in Tille Plants (D	Living Roo 4) d Soils (C6	Seco	ndary Indica Vater-Staine 4A, and 4 Drainage Pai Dry-Season Vices Saturation Vices Shallow Aqui FAC-Neutral Raised Ant M	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5)	RA 1, :
Type:	s: one require	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Iro  Stunted or  Other (Ex	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizosphei of Reduce on Reduction	s (B13) for (C1) res along d Iron (Co on in Tille Plants (D	Living Roo 4) d Soils (C6	Seco	ndary Indica Vater-Staine 4A, and 4 Drainage Pai Dry-Season Vices Saturation Vices Shallow Aqui FAC-Neutral Raised Ant M	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR	gery (C
Type:	one require	Water-Sta  MLRA Salt Crust Aquatic In Hydrogen Oxidized I Presence Recent Irc Stunted o Other (Ex	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re	s (B13) dor (C1) res along d Iron (Co on in Tille Plants (D	Living Roo 4) d Soils (C6	Seco	ndary Indica Vater-Staine 4A, and 4 Drainage Pai Dry-Season Vices Saturation Vices Shallow Aqui FAC-Neutral Raised Ant M	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR	gery (C
Type:	s: one require	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted or  Other (Ex	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re	s (B13) dor (C1) res along d Iron (Co on in Tille Plants (D marks)	Living Roo 4) d Soils (C6	Seco	ndary Indica Vater-Staine 4A, and 4 Drainage Pai Dry-Season Vices Saturation Vices Shallow Aqui FAC-Neutral Raised Ant M	ators (2 or more reced Leaves (B9) (MLHB) tterns (B10) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR	gery (C
Type:	s: one require I Imagery (E ve Surface	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Iro  Stunted o  Other (Ex	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizosphei of Reduce on Reduction r Stressed plain in Re ches):	s (B13) dor (C1) res along d Iron (C- con in Tille Plants (C marks)	Living Roo 4) d Soils (Co 1) (LRR A	Seco	ondary Indical Water-Staine 4A, and 4 Drainage Pai Dry-Season Vi Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	ators (2 or more reced Leaves (B9) (ML) HB) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR Hummocks (D7)	gery (C
Type:	s: one require I Imagery (E ve Surface Yes Yes	Water-Sta  MLRA  Salt Crust  Aquatic In  Hydrogen  Oxidized I  Presence  Recent Irc  Stunted or  Other (Ex	ined Leave 1, 2, 4A, a (B11) vertebrate: Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re ches):	s (B13) s (B13) dor (C1) res along d Iron (Con in Tille Plants (Dimarks)	Living Root 4) d Soils (C6 11) (LRR A	Seco	ondary Indical Water-Staine 4A, and 4 Drainage Pai Dry-Season Vi Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	ators (2 or more reced Leaves (B9) (ML) HB) Water Table (C2) isible on Aerial Ima Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR Hummocks (D7)	RA 1,

oplicant/Owner: Murray Fountain LLC		City/County: Colorado Springs - El Paso County Sampling Date: 5 14 21  State: CO Sampling Point: 4				
		Barray S1 T15S R65W				
		Local relief (concave. C	cal relief (concave, convex, none):			
Indform (hillslope, terrace, etc.): 1145 WIN 1710. WILLIA	Jarry DI	20 " Wa-4(11)	Long: WIGG 36-624 Datum: WGS &			
ubregion (LRR): D	_ Lat: _\_	57 10.114	NWI classification: R4SBC			
oil Map Unit Name: Saywpson Lown		A A A A A A A A A A A A A A A A A A A	Nyvi classification.			
e climatic / hydrologic conditions on the site typical for thi			(If no, explain in Remarks.)			
e Vegetation, Soil, or Hydrology s			Normal Circumstances" present? Yes No			
e Vegetation, Soil, or Hydrology	naturally pro		eded, explain any answers in Remarks.)			
UMMARY OF FINDINGS - Attach site map	showing	sampling point lo	ocations, transects, important features, etc			
Hydrophytic Vegetation Present? Yes N		Is the Sampled	Area			
Hydric Soil Present? Yes N		within a Wetlan				
Wetland Hydrology Present? Yes N	10	- I Manual VA (44, 75)	729 9744			
Moderate drought in area du		ssessment (	(drought. ojou)			
EGETATION – Use scientific names of plan	Absolute	Dominant Indicator	Dominance Test worksheet:			
ree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)			
			Total Number of Dominant			
			Species Across All Strata:(B)			
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:			
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:			
			Total % Cover of: Multiply by:			
2			OBL species x 1 =			
3			FACW species x 2 =			
4			FAC species x3 = 120			
5.		= Total Cover	FACU species x 4 =			
Herb Stratum, (Plot size:			UPL species x 5 =			
1. Bassia suparia.	40-1-	Y FAC	Column Totals: 60 (A) 160 (B)			
2. Convolvulus arvensis	40%	X NI	Prevalence Index = B/A = 3.20			
3. Chenopodium album	-10:1:	N FACU	Hydrophytic Vegetation Indicators:			
4. unidentifiable grass (no reproductive structures	16%	N NA	1 - Rapid Test for Hydrophytic Vegetation			
5	<u>'</u>		2 - Dominance Test is >50%			
6			= 3 - Prevalence Index is ≤3.0¹			
7			<ul> <li>4 - Morphological Adaptations' (Provide supportin data in Remarks or on a separate sheet)</li> </ul>			
8,			5 - Wetland Non-Vascular Plants¹			
9						
10			Indicators of hydric soil and wetland hydrology must			
11	951	= Total Cover	be present, unless disturbed or problematic.			
Woody Vine Stratum (Plot size:)						
1,			Hydrophytic			
2			Vegetation			
c./		_= Total Cover	Present? Yes No			
% Bare Ground in Herb Stratum						

Profile Description: (Describ	e to the de	oth needed to doc	ument the indicat	or or confirm	n the absence	Sampling Point: 4
Depth Matrix			dox Features	or or commi	i the absence	or indicators.)
(inches) Color (moist)	%	Color (moist)	% Type	e Loc²	Texture	Remarks
0-3 10122	1 100%.				-11	2
. 0 -	- 100%.		· · ·		1 alean	- ang
	7.5	10.10.01			Sandyloan	- moist.
9.5-38 10 4R2 2	99.1	1048 310	0 11. 6	PL 9	Sandy bahr	compacted day
			عت سند ک			, ,
						*
						- A
District Sen Part Size						
Type: C=Concentration, D=De	pletion, RM	=Reduced Matrix, (	CS=Covered or Co	ated Sand Gr		ation: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Appli	cable to all				Indicator	s for Problematic Hydric Soils <sup>3</sup>
Histosol (A1)		Sandy Redox			2 cm	Muck (A10)
Histic Epipedon (A2)		Stripped Matr			Red I	Parent Material (TF2)
Black Histic (A3)		Loamy Mucky	Mineral (F1) (exc	ept MLRA 1)	─ Very	Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	- 71.52	Loamy Gleyer	and the second s		_ Other	(Explain in Remarks)
<ul> <li>Depleted Below Dark Surfa</li> <li>Thick Dark Surface (A12)</li> </ul>	ce (A11)	_ Depleted Mate				
Sandy Mucky Mineral (S1)		Redox Dark S				s of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		Redox Depres	k Surface (F7)			d hydrology must be present,
estrictive Layer (if present):		Redox Depres	ssions (F8)		unless	disturbed or problematic.
Туре:		-				
		9			Hydric Soil F	Present? Yes No
Type: Depth (inches):		0			Hydric Soil F	Present? Yes No
Type: Depth (inches): Remarks:		=			Hydric Soil F	Present? Yes No
Type: Depth (inches): Remarks:  YDROLOGY Vetland Hydrology Indicators		d: check all that an	DIV)			1
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators  Primary Indicators (minimum of				(overst	Second	ary Indicators (2 or more required
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)		_ Water-St	ained Leaves (B9)		Second — Wa	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA:
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)		Water-St	ained Leaves (B9) A 1, 2, 4A, and 4B)		Second	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA-1
Type: Depth (inches): Remarks:  YDROLOGY  Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)  High Water Table (A2)  Saturation (A3)		Water-St MLRA Salt Crus	ained Leaves (B9) A 1, 2, 4A, and 4B) of (B11)		Second — Wa	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA-1 4A, and 4B) inage Patterns (B10)
Type:		Water-St MLRA Salt Crus Aquatic li	ained Leaves (B9) A 1, 2, 4A, and 4B) at (B11) nvertebrates (B13)		Second  Wa  Dra  Dry	ary Indicators (2 or more required ter-Stained Leaves (B9) ( <b>MLRA</b> 1 <b>4A, and 4B)</b> inage Patterns (B10) -Season Water Table (C2)
Type:		Water-St MLRA Salt Crus Aquatic li Hydroger	ained Leaves (B9) A 1, 2, 4A, and 4B) at (B11) nvertebrates (B13) n Sulfide Odor (C1)		Second  Wa  Dra  Dry  Sat	ary Indicators (2 or more required ter-Stained Leaves (B9) ( <b>MLRA-1</b> <b>4A, and 4B)</b> inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery
Type:		Water-St MLRA Salt Crus Aquatic li Hydroger Oxidized	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor	ng Living Roots	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA-14A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery omorphic Position (D2)
Type:		Water-St MLRA Salt Crus Aquatic li Hydroger Oxidized Presence	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (	ng Living Roots	Second  Wa  Dra  Dry  Sat  S (C3)  Sha	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA-14A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery omorphic Position (D2) allow Aquitard (D3)
Type:		Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent Ir	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (In the Control of Reduction in Tile	ig Living Roots C4) led Soils (C6)	Second  Wa  Dra  Dry  Sat  S (C3) — Geo  Sha  FAC	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 44A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5)
Type:	: one require	Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent In  Stunted of	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (Invertebrates) In Sulfide Odor (C1) In Sulfide Odor	ig Living Roots C4) led Soils (C6)	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo  — Sha  — FAC  — Rai	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Type:	one require	Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent Ir  Stunted of  Other (Ex	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (In the Control of Reduction in Tile	ig Living Roots C4) led Soils (C6)	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo  — Sha  — FAC  — Rai	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 44A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5)
Type:	one require	Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent Ir  Stunted of  Other (Ex	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (Invertebrates) In Sulfide Odor (C1) In Sulfide Odor	ig Living Roots C4) led Soils (C6)	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo  — Sha  — FAC  — Rai	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Type:	one require	Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent Ir  Stunted of  Other (Ex	ained Leaves (B9) A 1, 2, 4A, and 4B) of (B11) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres alor of Reduced Iron ( on Reduction in Til or Stressed Plants opplain in Remarks)	ig Living Roots C4) led Soils (C6)	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo  — Sha  — FAC  — Rai	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Type:	one require	Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent Ir  Stunted of  Other (Ex	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (Invertebrates) In Stressed Plants It (plain in Remarks) Inches):	ig Living Roots C4) led Soils (C6)	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo  — Sha  — FAC  — Rai	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 4A, and 4B) inage Patterns (B10) -Season Water Table (C2) uration Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
Type:	Imagery (B)	Water-St  MLRA  Salt Crus  Aquatic li  Hydroger  Oxidized  Presence  Recent Ir  Stunted of  Other (Ex	ained Leaves (B9) A 1, 2, 4A, and 4B) It (B11) Invertebrates (B13) In Sulfide Odor (C1) Rhizospheres alor It of Reduced Iron (Invertebrates) In Stressed Plants It (plain in Remarks) Inches):	ng Living Roots C4) led Soils (C6) (D1) (LRR A)	Second  — Wa  — Dra  — Dry  — Sat  s (C3) — Geo  — Sha  — FAC  — Rai	ary Indicators (2 or more required ter-Stained Leaves (B9) (MLRA: 44A, and 4B) inage Patterns (B10) -Season Water Table (C2) curation Visible on Aerial Imagery pmorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)

Project/Site: Rolling Hills - East Tributary to Jimmy Car	mp Creek	City/County: Colorado	Springs - El Paso County Sampling Date: 5/14/21
Applicant/Owner: Murray Fountain LLC			State: CO Sampling Point: 5
LOYS ALL CALLS AND			ange: S1 T15S R65W
			convex, none): (KNEIUL) Slope (%): 19-
Subregion (LRR): D	Lat: 3.2	· 413.41	Long: W104 " 36 647 Datum: W65 ?
Soil Map Unit Name: Samosma IDAMA		14.1.110	NWI classification: R4SBC
Are climatic / hydrologic conditions on the site typical	for this time of ve	ar? Ves No	/ (If no explain in Remarks )
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			
			eeded, explain any answers in Remarks.) locations, transects, important features, et
		Sampling point	iocations, transects, important reatures, et
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes		Is the Sample	d Area
	No_	within a Wetla	d Area Ind? Yes No
Moderate drought in area d	plants.		
Tree Stratum (Plot size:)	% Cover	Dominant Indicator Species? Status	Dominance Test worksheet:  Number of Dominant Species
1			That Are OBL, FACW, or FAC: O (A)
23			Total Number of Dominant Species Across All Strata:2 (B)
3			Species Across All Strata: (B)
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  O (A/B
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2			OBL species x 1 =
3 4			FACW species x 2 =
5.			FAC species x 3 = 30
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size.	1. " /	./	UPL species x 5 =
1. undertifiable grass (no reproductive	20:1.	ANA_	Column Totals: 20 (A) 70 (B)
3. Chenopodium album	10:/.		Prevalence Index = B/A = 3.5
4. Bassia scoparia	70./-	N FACU	Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50%      3 - Prevalence Index is ≤3.0¹
7			□ 4 - Morphological Adaptations¹ (Provide supporting)
8			data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants
10			Problematic Hydrophytic Vegetation¹ (Explain)
11			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	_80 /.	= Total Cover	The state of providing to
1			Hydrophytic
2			Vegetation
% Bare Ground in Herb Stratum 20.).		= Total Cover	Present? Yes No
Remarks:			
* sampled entire plant communi	try		

Sampling Point: 5

Depth Matri		Color (moist)	edox Features %	Type	Loc <sup>2</sup>	Texture		Remark	s
(inches) Color (moist)		Color (moist)		Type	LUC	. 1	wwis	1	
5-4.5 1048212		- 1			-	Sandyday	1	. (	
-5-75 JOYR2/2	98.	7.546 34	- 2.1.		YL	Gandy clair		pooles	
5-11 104E21	2 97%	7.54R 3/4			PL	Sandyda	7	1	
1-19 101K2h	97:1	164R316	3%	_ C	M	Sandy day	(	dey	
9-21 10983	1 93:1	104K311	77.	C	M	Sandy clair		0	
21-22 104RS14	95%	104K316	51	C	M	Sandy bow			
12-38 104R514	100.1	10 110 11 1				Sardy low	~ 1	un/	
104 CD14	1001					The state of the		8	
		- Dadward Matrix	CC-Covered	- Contr	d Sand Gr	aine 21 n	ration: Pl	=Pore Lining	M=Matrix.
Type: C=Concentration, D=E lydric Soil Indicators: (App	epletion, RM	LRRs. unless of	herwise note	ed.)	o Sand Oi	Indicate	ors for Pr	oblematic Hy	dric Soils3:
Histosol (A1)	illouble to all	Sandy Redo				_ 2 cr	n Muck (A	10)	
Histic Epipedon (A2)		Stripped Ma				_ Rec	Parent M	laterial (TF2)	
Black Histic (A3)			y Mineral (F1	) (excep	MLRA 1)			Dark Surface	
Hydrogen Sulfide (A4)			ed Matrix (F2)			_ Oth	er (Explai	n in Remarks	)
Depleted Below Dark Sur	face (A11)	_ Depleted Ma						5 - 1 × 10 - 5 × 10	
Thick Dark Surface (A12)			Surface (F6)					rophytic vege	
<ul> <li>Sandy Mucky Mineral (S1</li> </ul>			rk Surface (F	7)				ogy must be	
Sandy Gleyed Matrix (S4)		Redox Depr	essions (F8)			unles	s disturbe	ed or problem	ialic.
lestrictive Layer (if present	:								
Type:						Se San Van	44	. V	/
Depth (inches):						Hydric Soil	Present	Yes	No_ <u>//</u> _
Remarks:						Hydric Soil	Present	r tes	NO
YDROLOGY	rs:					Hydric Soil	Present	r tes	NO
YDROLOGY Wetland Hydrology Indicato		ed; check all that a	pply)						nore required)
YDROLOGY  Wetland Hydrology Indicator				es (B9) (e	except	Secon	ndary Indi	cators (2 or m	nore required)
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)		_ Water-	pply) Stained Leave RA 1, 2, 4A, a		except	Secon	ndary Indi	cators (2 or m	nore required)
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)		_ Water-	Stained Leave RA 1, 2, 4A, a		except	Secon V	ndary Indi Vater-Stain 4A, and	cators (2 or m	nore required) 39) (MLRA 1, 2,
YDROLOGY  Netland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)		Water- MLF Salt Cr	Stained Leave RA 1, 2, 4A, a	ind 4B)	except	<u>Secon</u> v	ndary Indi Vater-Stair 4A, and Prainage P	cators (2 or m ned Leaves (I 4B)	nore required) 39) (MLRA 1, 2,
YDROLOGY  Vetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)		Water- MLF  Salt Cr  Aquatio	Stained Leave RA 1, 2, 4A, a ust (B11)	and 4B) s (B13)	except	Secon — V	ndary Indie Vater-Stain 4A, and Prainage P	cators (2 or m ned Leaves (f 4 <b>B)</b> ratterns (B10) n Water Table	nore required) 39) (MLRA 1, 2,
YDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)		Water- MLF  _ Salt Cn  _ Aquation  _ Hydrog	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrates en Sulfide Od	and 4B) s (B13) dor (C1)		Secon — V	ndary India Vater-Stain 4A, and Prainage P Pry-Season aturation	cators (2 or m ned Leaves (I 4B) ratterns (B10) n Water Table Visible on Ae	nore required) 39) ( <b>MLRA 1, 2</b> , e (C2) rial Imagery (C9
Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)		── Water MLF  ── Salt Cr  ── Aquatio  ── Hydrog  ── Oxidize	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrates en Sulfide Od	s (B13) dor (C1) res along	Living Roo	Secon ∨ □	ndary India Vater-Stair 4A, and erainage Pery-Seasor attration second repairs and the second repairs attration second repairs attraction	cators (2 or m ned Leaves (I 4B) ratterns (B10) n Water Table Visible on Ae	nore required) 39) ( <b>MLRA 1, 2,</b> e (C2) rial Imagery (C9
YDROLOGY  Netland Hydrology Indicator  Frimary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)		─ Water MLF  — Salt Cr  — Aquatio  — Hydrog  † Oxidize  — Presen	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate en Sulfide Oc ed Rhizospher	s (B13) dor (C1) res along d Iron (C	Living Roo 4)	Secon — V	ndary India Vater-Stair 4A, and Prainage P Pry-Season aturation Seomorphi Shallow Ad	cators (2 or m ned Leaves (I 4B) ratterns (B10) n Water Table Visible on Ae c Position (D	nore required) 39) ( <b>MLRA 1, 2,</b> e (C2) rial Imagery (C9
YDROLOGY  Netland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Water- MLF  Salt Cr Aquatio Hydrog Oxidize Presen Recent	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: en Sulfide Oc ed Rhizospher ce of Reduce	s (B13) dor (C1) res along d Iron (C4 on in Tille	Living Roo 4) d Soils (C6	Secon — V — D — D — D — S — S — S — S — S — S — S — S	ndary India Vater-Stair 4A, and Prainage Pary-Season Staturation Seomorphi Shallow Aq	cators (2 or med Leaves (I 4B) ratterns (B10) in Water Table Visible on Ae ic Position (Di juitard (D3)	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9
YDROLOGY.  Wetland Hydrology Indicator (Minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)	of one require	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: en Sulfide Oc ed Rhizospher ice of Reduce	s (B13) dor (C1) res along d Iron (Coon in Tille Plants (D	Living Roo 4) d Soils (C6	Secon — V — D — D — S — S — S — S — S — S — S — S — S — S	ndary India Vater-Stain 4A, and vrainage P vry-Season aturation Geomorphi challow Aq AC-Neutra	cators (2 or med Leaves (6 4B) ratterns (B10) ratterns (D10) ratte	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
YDROLOGY  Vetland Hydrology Indicator  Primary Indicators (minimum  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer	of one require	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate en Sulfide Oc ed Rhizospher ce of Reduce Iron Reduction	s (B13) dor (C1) res along d Iron (Coon in Tille Plants (D	Living Roo 4) d Soils (C6	Secon — V — D — D — S — S — S — S — S — S — S — S — S — S	ndary India Vater-Stain 4A, and vrainage P vry-Season aturation Geomorphi challow Aq AC-Neutra	cators (2 or med Leaves (for the deaves (for t	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
Primary Indicators (minimum)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer  Sparsely Vegetated Cond	of one require	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate en Sulfide Oc ed Rhizospher ce of Reduce Iron Reduction	s (B13) dor (C1) res along d Iron (Coon in Tille Plants (D	Living Roo 4) d Soils (C6	Secon — V — D — D — S — S — S — S — S — S — S — S — S — S	ndary India Vater-Stain 4A, and vrainage P vry-Season aturation Geomorphi challow Aq AC-Neutra	cators (2 or med Leaves (for the deaves (for t	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
Primary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conditions:	of one require al Imagery (E ave Surface	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted  Other (	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: en Sulfide Oc ed Rhizospher ice of Reduce iron Reduction d or Stressed Explain in Re	s (B13) dor (C1) res along d Iron (Coon in Tille Plants (D	Living Roo 4) d Soils (C6	Secon — V — D — D — S — S — S — S — S — S — S — S — S — S	ndary India Vater-Stain 4A, and vrainage P vry-Season aturation Geomorphi challow Aq AC-Neutra	cators (2 or med Leaves (for the deaves (for t	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
Proposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Inundation Visible on Aer  Sparsely Vegetated Concertical Conce	al Imagery (Eave Surface	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted  Other (  (B8)	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate en Sulfide Oc ed Rhizospher ice of Reduce Iron Reducti d or Stressed Explain in Re (inches):	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6	Secon — V — D — D — S — S — S — S — S — S — S — S — S — S	ndary India Vater-Stain 4A, and vrainage P vry-Season aturation Geomorphi challow Aq AC-Neutra	cators (2 or med Leaves (for the deaves (for t	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
YDROLOGY  Netland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present? Nater Table Present?	al Imagery (E ave Surface Yes	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted  Other (  (B8)	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: ien Sulfide Oc ed Rhizospher ice of Reduce Iron Reductio d or Stressed Explain in Re  (inches):	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A)	Second	ndary India Vater-Stain 4A, and Prainage P Pry-Season aturation Geomorphi Challow Ad AC-Neutr Raised Anterost-Heav	cators (2 or med Leaves (6 48) ratterns (B10) n Water Table Visible on Ae of Position (D3) al Test (D5) r Mounds (D6) re Hummocks	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
Primary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Concertication Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe)	al Imagery (Eave Surface Yes Yes Yes	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted  Other (  (B8)  No  Depth  Depth  Depth	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: ien Sulfide Oc ed Rhizospher ice of Reduce Iron Reductio d or Stressed Explain in Re  (inches):  ' (inches):  ' (inches):  ' (inches):  '	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A)	Secon	ndary India Vater-Stain 4A, and Prainage P Pry-Season aturation Geomorphi Challow Ad AC-Neutr Raised Anterost-Heav	cators (2 or med Leaves (6 48) ratterns (B10) n Water Table Visible on Ae of Position (D3) al Test (D5) r Mounds (D6) re Hummocks	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
YDROLOGY  Netland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer	al Imagery (Eave Surface Yes Yes Yes	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted  Other (  (B8)  No  Depth  Depth  Depth	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: ien Sulfide Oc ed Rhizospher ice of Reduce Iron Reductio d or Stressed Explain in Re  (inches):  ' (inches):  ' (inches):  ' (inches):  '	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A)	Secon	ndary India Vater-Stain 4A, and Prainage P Pry-Season aturation Geomorphi Challow Ad AC-Neutr Raised Anterost-Heav	cators (2 or med Leaves (6 48) ratterns (B10) n Water Table Visible on Ae of Position (D3) al Test (D5) r Mounds (D6) re Hummocks	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)
Primary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Concertication Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe)	al Imagery (Eave Surface Yes Yes Yes	Water- MLF  Salt Cn  Aquation  Hydrog  Oxidize  Presen  Recent  Stunted  Other (  (B8)  No  Depth  Depth  Depth	Stained Leave RA 1, 2, 4A, a ust (B11) c Invertebrate: ien Sulfide Oc ed Rhizospher ice of Reduce Iron Reductio d or Stressed Explain in Re  (inches):  ' (inches):  ' (inches):  ' (inches):  '	s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A)	Secon	ndary India Vater-Stain 4A, and Prainage P Pry-Season aturation Geomorphi Challow Ad AC-Neutr Raised Anterost-Heav	cators (2 or med Leaves (6 48) ratterns (B10) n Water Table Visible on Ae of Position (D3) al Test (D5) r Mounds (D6) re Hummocks	nore required) 39) (MLRA 1, 2, e (C2) rial Imagery (C9 2)

Creek	City/County: Colorado	Springs - El Paso County Sampling Date: 8 7 2 1
		State: CO Sampling Point: Lo
	Section, Township, Ra	nge: S#2T15S R65W
lor well	Local relief (concave.	convex, none): (by care Slope (%): 0-2
Lat. N2	8° 45.1042'	Long: W104° 37.478' Datum: WGS 84
Lat. D	15.4.12	NWI classification: None
	-0 V 1/ No	(If no, explain in Remarks.)
		"Normal Circumstances" present? Yes No
naturally pro	blematic? (If ne	eeded, explain any answers in Remarks.)
p showing	sampling point l	ocations, transects, important features, etc
No	to the Committee	i Alm
No		
No	Within a Wetlan	103 103
ints.		
Absolute	Dominant Indicator	Dominance Test worksheet:
		Number of Dominant Species
		That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant 2
		Species Across All Strata: (B)
	- Total Cover	Percent of Dominant Species That Are OBL FACW or FAC
0	- Total Cover	THAT ALE OBE; I AOVI; OI I AO:
		Prevalence Index worksheet:
		OBL species x1=
		FACW species
		FACU species 18 x4= 72
-	= Total Cover	UPL species O x5 = O
20	Y FAC	Column Totals: \$1 (A) 261 (B)
		Prevalence Index = B/A = 3.22
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
_		3 - Prevalence Index is ≤3.0¹
1		
		data in Remarks or on a separate sheet)
1		5 - Wetland Non-Vascular Plants¹
		<ul> <li>Problematic Hydrophytic Vegetation¹ (Explain)</li> </ul>
		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
85	= Total Cover	be present, unless disturbed or problematic.
		Hydrophytic
		Vegetation Present? Yes No
	= Total Cover	111
	Lat: N 3  this time of year significantly inaturally pro p showing  No No No Sho Sho Sho Sho Sho Sho Sho Sho Sho Sh	Section, Township, Ra  Or well Local relief (concave, Lat: N 38° 45.1042′  This time of year? Yes No_ significantly disturbed? Are naturally problematic? (If no p showing sampling point I  No Is the Sample within a Wetlan  No Species? Status   ants.  Absolute Dominant Indicator % Cover Species? Status  = Total Cover  = Total Cover  = Total Cover    Section, Township, Ra   No

		-	
_	-		
•			

Sampling Point:

depth needed to document the indicator or confirm the absence of indicators.)
Redox Features Page 18
Color (moist) % Type Loc Textore
Sundy loan
10483/10 37. C PL Prominent
10 yr 3/4 5/ C PL
10 MR 3 6 2 C PL garding
10 yr 410 3% Sindy tay prm.
10 4R 416 51. C PL "Gandy clay
10 yeurs 11. C M boamy sand
1 -WIFHW
PM-Reduced Matrix (CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :
Sandy Redox (S5) — 2 cm Muck (A10)
Stopped Matrix (S6) Red Parent Material (TF2)
Very Shallow Dark Surface (TF12)
Loamy Gleyed Matrix (F2)  Other (Explain in Remarks)
Depleted Matrix (F3)
Pedox Dark Surface (F6) Indicators of hydrophytic vegetation and
Depleted Dark Surface (F7)  wetland hydrology must be present,
Redox Depressions (F8) unless disturbed or problematic.
Hydric Soil Present? Yes No

#### **HYDROLOGY**

Wetland Hydrology Indicators:		O to Indicators (2 or more required)
Primary Indicators (minimum of one required; c	heck all that apply)	Secondary Indicators (2 or more required)
	<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Sall Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living Roots (C3)</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled Soils (C6)</li> <li>Stunted or Stressed Plants (D1) (LRR A)</li> <li>Other (Explain in Remarks)</li> </ul>	<ul> <li>✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>✓ Drainage Patterns (B10)</li> <li>✓ Dry-Season Water Table (C2)</li> <li>✓ Saturation Visible on Aerial Imagery (C9)</li> <li>Ճ Geomorphic Position (D2)</li> <li>✓ Shallow Aquitard (D3)</li> <li>✓ FAC-Neutral Test (D5)</li> <li>✓ Raised Ant Mounds (D6) (LRR A)</li> <li>✓ Frost-Heave Hummocks (D7)</li> </ul>
Field Observations:  Surface Water Present? Yes No Water Table Present? Yes No Saluration Present? Yes No (includes capillary fringe)		Hydrology Present? Yes No
Remarks.		

pject/Site: Rolling Hills - East Tributary to Jimmy Camp Creek plicant/Owner: Murray Fountain LLC				State: CO Sampling Point:
T total A Deute	S	Section, Town	nship, Ran	ge: S1χT15S R65W
and a dead of the day (Chall	mel. 1	ocal relief (	concave. c	onvex, none): None-concowe Slope (%): 22
	Lat: N3	8'45.67	25'	Long: W 104 37 456 Datum: WAS 84
				NWI classification: None
iil Map Unit Name: <u>Sawyson Joan</u>	ma of upo		1	(If no, explain in Remarks.)
e climatic / hydrologic conditions on the site typical for this ti	ine or yea	Estudod2	^ro	Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology sign	nificantly o	iisturbeu r		eded, explain any answers in Remarks.)
e Vegetation, Soil, or Hydrology nat	urally prot	olematic?		
UMMARY OF FINDINGS – Attach site map sh	nowing	sampling	point lo	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No	V_	lo the	Sampled	Area
Hydric Soil Present? Yes No			a Wetlan	
Netland Hydrology Present? Yes No		1,000		
Remarks: No drought at time of assessment in El		dwight	·gov)	
EGETATION – Use scientific names of plants		Developed	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Dominant Species?		Number of Dominant Species That Are OBL. FACW, or FAC: (A)
1)				matale obt. racv, or rac.
2				Total Number of Dominant Species Across All Strata:  2 (B)
3				Openies / Israelis
4		= Total Cov	er	Percent of Dominant Species That Are OBL. FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1			-	Total % Cover of: Multiply by:
2				OBL species x 1 = 0
4.				FACW species x 2 =
5				FAC species 40 x3 = 120  FACU species 26 x4 = 100
<u> </u>		= Total Cov	/er	
Herb Stratum (Plot size: *	- 1		7.2	Or Lapedies x 3 =
1. Bouteloua gracilis		<u> </u>		Column Totals: <u>V6</u> (A) <u>226</u> (B)
2. bassia suparia	30%		FAC	Prevalence Index = B/A = 3.46
3. Chenopodium album	20%	<u>~~</u>	FACH	Hydrophytic Vegetation Indicators:
4. Cuscuta approximata	10%	_ <u>N</u>	NI	1 - Rapid Test for Hydrophytic Vegetation
5. Poa annua	10%	7	FAC	2 - Dominance Test is >50%
6. Yanicum milia ceum	5./.	-2	FACU	= 3 - Prevalence Index is ≤3.0¹
7. Herianthus annuis	2.1.	N	FACU	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8. Verbesina encelioides			FACM	5 - Wetland Non-Vascular Plants
9. Pascopyrum smithii		_N_	1700	Problematic Hydrophytic Vegetation¹ (Explain)
10				¹Indicators of hydric soil and wetland hydrology must
11/2		= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		10(a) 00(		
1				Hydrophytic
2.				Vegetation Present? Yes No
		= Total Cov	/er	rieseller fes No y
% Bare Ground in Herb StratumO		_ , , ottal		

Prome Description	on: (Describe	to the dep	th needed to docur	nent the i	ndicato	r or confirm	n the absence	of indicators.)
Depth	Matrix	- 01		x Features			1 . <del>1</del>	
(inches) (	Color (moist)		Color (moist)	%	Type'	Loc	Texture	Remarks
020	104Ra/2	160 1			4	-	Sandy	
9-16 1	OYRaja	99.1.	104R316	11-	<u></u>	PL	Laura	Dron
6-30 16	94R27	apa)	104K316	11.		W	daylean	I stalation deposits.
	_			_			1	
					T.			
			Reduced Matrix. CS			ed Sand Gr		ation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> :
	ators. (Applied	ubic to un i	Sandy Redox (S		u.,			Muck (A10)
<ul> <li>Histosol (A1)</li> <li>Histic Epipedo</li> </ul>	on (A2)		Stripped Matrix				_	Parent Material (TF2)
Black Histic (A			Loamy Mucky M		(excep	t MLRA 1)		Shallow Dark Surface (TF12)
Hydrogen Sulf			Loamy Gleyed N		(oxocp	· merur //		(Explain in Remarks)
The second secon	w Dark Surface	(A11)	Depleted Matrix					
_ Thick Dark Su	rface (A12)		Redox Dark Sur	face (F6)			3Indicators	s of hydrophytic vegetation and
Sandy Mucky	Mineral (S1)		Depleted Dark S	Surface (F7	)			d hydrology must be present,
_ Saridy Mucky	Willieral (O1)							
Sandy Gleyed	Matrix (S4)		Redox Depressi	ons (F8)			unless	disturbed or problematic.
Sandy Gleyed	Matrix (S4)		Redox Depressi	ons (F8)			unless	disturbed or problematic.
Sandy Gleyed	Matrix (S4)		Redox Depressi	ons (F8)			unless	disturbed or problematic.
Sandy Gleyed estrictive Layer Type: Depth (inches):	Matrix (S4) (if present):	•	Redox Depressi	ons (F8)			unless Hydric Soil P	
Sandy Gleyed estrictive Layer Type: Depth (inches):	Matrix (S4) (if present):	•	Redox Depressi	ons (F8)				
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:	Matrix (S4) (if present):	•	Redox Depressi	ons (F8)				
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  /DROLOGY /etland Hydrolog	Matrix (S4) (if present):	•					Hydric Soil P	resent? Yes No <u>\</u>
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  'DROLOGY  etland Hydrolog rimary Indicators	Matrix (S4) (if present):  gy Indicators: (minimum of or	ne required	; check all that apply	)	(70)		Hydric Soil P	resent? Yes No\_\
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog rimary Indicators Surface Water	Matrix (S4) (if present):  gy Indicators: (minimum of or	ne required	; check all that apply	) ned Leaves		xcept	Hydric Soil P	resent? Yes No\_\ ary Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1,
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  'DROLOGY etland Hydrolog rimary Indicators Surface Water High Water Ta	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) ble (A2)	ne required	; check all that apply Water-Stain MLRA 1	) ned Leaves , 2, 4A, an		xcept	Hydric Soil P	ary Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1,
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) )	ne required	; check all that apply  Water-Stain  MLRA 1  Salt Crust (I	) ned Leaves , <b>2, 4A, an</b> B11)	d 4B)	xcept	Hydric Soil P	ary Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, IA, and 4B) inage Patterns (B10)
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B1)	ne required	check all that apply Water-Stain MLRA 1 Salt Crust (I	) ned Leaves , <b>2, 4A, an</b> B11) ertebrates (	d 4B) (B13)	xcept	Hydric Soil P	ary Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, IA, and 4B) inage Patterns (B10) Season Water Table (C2)
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depte	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B1) osits (B2)	ne required	; check all that apply  Water-Stain  MLRA 1  Salt Crust (I)  Aquatic Inve	) led Leaves , <b>2, 4A, an</b> B11) ertebrates ( ulfide Odo	(B13) r (C1)		Seconda  Wate Drai Dry- Satu	ery Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, A, and 4B) mage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deposits (	matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B1) osits (B2) (B3)	ne required	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	) ned Leaves , <b>2, 4A, an</b> B11) ertebrates ( ulfide Odo nizosphere:	d 4B) (B13) r (C1) s along l	Living Roots	Hydric Soil P	resent? Yes No
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) ble (A2) ) B1) osits (B2) (B3) rust (B4)	ne required	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	ed Leaves , <b>2, 4A, an</b> B11) ertebrates ulfide Odo nizospheres Reduced	d 4B) (B13) r (C1) s along l	Living Roots	Seconda  Wate Drai Dry- Satus S (C3) Geo	resent? Yes No
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrologimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I) Sediment Depoint Called Mat or City Iron Deposits (I)	matrix (S4) (if present):  gy Indicators: (minimum of or (A1) ble (A2) ) B1) osits (B2) (B3) rust (B4) B5)	ne required	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	ned Leaves , <b>2, 4A, an</b> B11) ertebrates ulfide Odo nizospheres f Reduced Reduction	d 4B) (B13) r (C1) s along l lron (C4	Living Roots	Seconda  Wate Drai Dry- Satu S (C3) Geo Shal	resent? Yes No
Sandy Gleyed estrictive Layer Type:	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B1) osits (B2) (B3) rust (B4) (B5) racks (B6)		check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	) ned Leaves , 2, 4A, an B11) ertebrates ( ulfide Odo nizospheres f Reduced Reduction Stressed Pi	(B13) r (C1) s along li lron (C4 in Tilled	Living Roots  ) d Soils (C6)	Seconda  Wate  Drai  Dry- Satu S (C3) FAC Rais	resent? Yes No
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ( Algal Mat or Ci Iron Deposits ( Surface Soil Ci Inundation Visi	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B1) osits (B2) (B3) rust (B4) (B5) racks (B6) (ble on Aerial In	nagery (B7)	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	) ned Leaves , 2, 4A, an B11) ertebrates ( ulfide Odo nizospheres f Reduced Reduction Stressed Pi	(B13) r (C1) s along li lron (C4 in Tilled	Living Roots  ) d Soils (C6)	Seconda  Wate  Drai  Dry- Satu S (C3) FAC Rais	resent? Yes No
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ( Algal Mat or Ci Iron Deposits ( Surface Soil Ci Inundation Visi Sparsely Vege	matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B3) (B3) (B5) (B5) (B6) (ble on Aerial In tated Concave	nagery (B7)	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve	) ned Leaves , 2, 4A, an B11) ertebrates ( ulfide Odo nizospheres f Reduced Reduction Stressed Pi	(B13) r (C1) s along li lron (C4 in Tilled	Living Roots  ) d Soils (C6)	Seconda  Wate  Drai  Dry- Satu S (C3) FAC Rais	resent? Yes No
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrologimary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depoists ( Algal Mat or Cr Iron Deposits ( Surface Soil Cr Inundation Visit Sparsely Vege eld Observation	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) ble (A2) ) B1) osits (B2) (B3) rust (B4) B5) racks (B6) ible on Aerial In tated Concave s:	nagery (B7) Surface (B	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ned Leaves , <b>2, 4A, an</b> B11) ertebrates ulfide Odo nizospheres Reduced Reduction Stressed Pl ain in Rema	(B13) r (C1) s along li lron (C4 in Tilled	Living Roots  ) d Soils (C6)	Seconda  Wate  Drai  Dry- Satu S (C3) FAC Rais	resent? Yes No
Esandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ( Algal Mat or Ci Iron Deposits ( Surface Soil Ci Inundation Visi Sparsely Vege eld Observation urface Water Pres	matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ible on Aerial In tated Concave s: sent? Ye	nagery (B7) Surface (Bl	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ned Leaves , 2, 4A, an B11) ertebrates ( ulfide Odo nizospheres f Reduced Reduction Stressed Pl ain in Remaines):	d 4B) (B13) r (C1) s along l lron (C4 in Tillec	Living Roots  ) d Soils (C6)	Seconda  Wate  Drai  Dry- Satu S (C3) FAC Rais	resent? Yes No
Sandy Gleyed estrictive Layer Type: Depth (inches): emarks:  DROLOGY  etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ( Algal Mat or Ci Iron Deposits ( Surface Soil C	Matrix (S4) (if present):  gy Indicators: (minimum of or (A1) (ble (A2) ) (B3) (B3) (B3) (B4) (B5) (B6) (ble on Aerial In tated Concave s: sent? Ye nt? Ye	nagery (B7) Surface (Bl s No	check all that apply Water-Stain MLRA 1 Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ned Leaves , 2, 4A, an B11) ertebrates ( ulfide Odo nizospheres f Reduced Reduction Stressed Pl ain in Remains	d 4B) (B13) r (C1) s along l lron (C4 in Tillec	Living Roots  d Soils (C6) (LRR A)	Seconda  Wate  Drai  Dry- Satu S (C3) FAC Rais	ary Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, AA, and 4B) mage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (comorphic Position (D2) llow Aquitard (D3) E-Neutral Test (D5) sed Ant Mounds (D6) (LRR A) st-Heave Hummocks (D7)

Project/Site: Rolling Hills - East Tributary to Jimmy Camp C	reek	City/Cou	inty: Colorado	Springs - El Paso County Sampling Date: 8 2 2
Applicant/Owner: Murray Fountain LLC		Only Out	,.	State: CO Sampling Point: 8
T Walsh and A Davis		Section	Township, Ra	nge: S1 T15S R65W
Landform (hillslope, terrace, etc.): The trib- landform (LRR): D	nurdawy Lat: 38	Local re	elief (concave,	Convex, none):
Soil Map Unit Name: Sampson Loam				
Are climatic / hydrologic conditions on the site typical for thi				(If no, explain in Remarks.) "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
		samp	ling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?         YesN           Hydric Soil Present?         YesN           Wetland Hydrology Present?         YesN	10/_		the Sampled	
Remarks:				
VEGETATION – Use scientific names of plan				Total and to be a few and
Tree Stratum (Plot size:) 1			ant Indicator s? Status	Number of Dominant Species That Are OBL. FACW, or FAC: (A)
2				Total Number of Dominant 2
3	_			Species Across All Strata:(B)
4		= Total	Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  O (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species
5.				FACU species 53 x4= 3+3 x4=
470		= Total	Cover	UPL species x 5 =
Herb Stratum (Plot size: 2	6x.1.	V	11	Column Totals: 61 (A) 236 (B)
1. Bouteloua gracilis	201.	1	FACU	
2. Chenopodium album	20%	1	FACU.	Prevalence Index = B/A = 3.84  Hydrophytic Vegetation Indicators:
3. Amaranthus retroflexus 4. Chamomilla iscoidea olensow	10%	N	FASY	1 - Rapid Test for Hydrophytic Vegetation
5. Passia scarparia	<b>6</b> .	7	FAC.	2 - Dominance Test is >50%
6. Verbesina Offide Witalisencelion		N	FACU	= 3 - Prevalence Index is ≤3.0¹
7. Rumex crispus	2.1.	N	FAC	4 - Morphological Adaptations (Provide supporting
8. Convalvulus arvensis	1.1.	N	NI	data in Remarks or on a separate sheet)
9. Cirsium arvense	1:/.	-14	FAC	5 - Wetland Non-Vascular Plants1
10	-			✓ Problematic Hydrophytic Vegetation¹ (Explain)
11	u ····			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	112	= Total C	Cover	Hydrophytic
2				Vegetation
		= Total C	Cover	Present? Yes No
% Bare Ground in Herb Stratum	-			
Activities.				

Profile Descri	Matrix		Redox Features	
(inches)	Color (moist)	%	Color (moist) % Type Loc	Texture Remarks
0-13	10422/2	160-16		day loan dos
1 2 Th 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CASE A	- 11		solthole I
13-30	104R3/2	100.	1 to	Stry loan
30-48	104232	100-		Sandy lian &
			W	0 42
Type: C=Cor	ncentration D=Deni	etion RM=	Reduced Matrix, CS=Covered or Coated San	d Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
type. C-Co	dicators: (Applica	ble to all I	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (		77.5	Sandy Redox (S5)	2 cm Muck (A10)
	pedon (A2)	- 8	Stripped Matrix (S6)	Red Parent Material (TF2)
- Black His		100	Loamy Mucky Mineral (F1) (except MLR	
	Sulfide (A4)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
		(011)	Depleted Matrix (F3)	
	Below Dark Surface	(ATT)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
	k Surface (A12)	10.7		wetland hydrology must be present,
	ucky Mineral (S1)		Depleted Dark Surface (F7)	unless disturbed or problematic.
	eyed Matrix (S4)		Redox Depressions (F8)	unless distribed of problematic.
Restrictive La	ayer (if present):			
Type:				and the state of t
				Hydric Soil Present? Yes No
V.				
Remarks:	BY _	15.		
YDROLOG Wetland Hyd	GY rology Indicators:		f: check all that apply)	Secondary Indicators (2 or more required)
YDROLOG Wetland Hyd	ology Indicators:		f: check all that apply)  — Water-Stained Leaves (B9) (except	
YDROLOG Wetland Hydrimary Indica	orology Indicators: ators (minimum of o		Water-Stained Leaves (B9) (except	─ Water-Stained Leaves (B9) (MLRA 1, 2,
YDROLOG Wetland Hydi Frimary Indica Surface V High Wat	ology Indicators: ators (minimum of o Nater (A1) er Table (A2)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
YDROLOG Wetland Hydi Primary Indica Surface V High Wat Saturatio	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3)		<ul><li>Water-Stained Leaves (B9) (except</li><li>MLRA 1, 2, 4A, and 4B)</li><li>Salt Crust (B11)</li></ul>	<ul> <li>Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>Drainage Patterns (B10)</li> </ul>
YDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> </ul>	<ul> <li>✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>✓ Drainage Patterns (B10)</li> <li>✓ Dry-Season Water Table (C2)</li> </ul>
YDROLOG Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	<ul> <li>Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
YDROLOG Wetland Hyd Surface V High Wat Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living</li> </ul>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9) Roots (C3)  Geomorphic Position (D2)
YDROLOG Wetland Hyd Surface V High Wat Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)
YDROLOG Wetland Hyd Frimary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of on Nater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living</li> </ul>	── Water-Stained Leaves (B9) (MLRA 1, 2,
YDROLOG Wetland Hydrograms Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo Algal Mat	rology Indicators: ators (minimum of on Nater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		<ul> <li>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living</li> <li>Presence of Reduced Iron (C4)</li> </ul>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOG  Wetland Hydrogram  Surface V  High Water Ma  Sediment  Drift Depo  Algal Mat  Iron Depo  Surface S	rology Indicators: ators (minimum of or	ne required	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
YDROLOG Wetland Hyd Frimary Indica Surface V High Water Ma Sediment Drift Dep Algal Mat Iron Depo Surface S Inundatio	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I	ne required	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF)  Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  s (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOG  Wetland Hydrogram  Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely	rology Indicators: ators (minimum of or Nater (A1) ter Table (A2) to (A3) arks (B1) t Deposits (B2) to r Crust (B4) to r Crust (B4) to r Crust (B6) on Visible on Aerial I Vegetated Concave	ne required	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF)  Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  S (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOG  Wetland Hydro  Frimary Indica  Surface V  High Water Ma  Sediment  Drift Depo  Algal Mat  Iron Depo  Surface S  Inundatio  Sparsely  Field Observ	rology Indicators: ators (minimum of or Nater (A1) per Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave	magery (B Surface (I	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF)  Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  s (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOG Wetland Hydro Primary Indica Surface V High Water Ma Sediment Under Ma Sediment Under Ma Sediment Under Ma Iron Depo Surface S Inundatio Sparsely Field Observ Surface Water	rology Indicators: ators (minimum of or Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) in Visible on Aerial I Vegetated Concave rations:	magery (B' e Surface (l	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF  Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  s (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOG  Wetland Hydrogom  Primary Indication  Surface V  High Water Mater Mat	rology Indicators: ators (minimum of or Nater (A1) ter Table (A2) to (A3) arks (B1) t Deposits (B2) to r Crust (B4) to r Crust (B4) to r Crust (B6) to Visible on Aerial I Vegetated Concave rations: ter Present? Y	magery (B'e Surface (l'es	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF  Other (Explain in Remarks)  No  Depth (inches):  Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)
YDROLOG  Wetland Hydrogom  Primary Indication  Surface V  High Water Mater Mat	rology Indicators: ators (minimum of or Nater (A1) ter Table (A2) to (A3) arks (B1) t Deposits (B2) to r Crust (B4) to r Crust (B4) to r Crust (B6) to Visible on Aerial I Vegetated Concave rations: ter Present? Y Present? Y	magery (B'e Surface (l'es	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF Other (Explain in Remarks)  No  Depth (inches):  Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  s (C6)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)
YDROLOG Wetland Hydrogramary Indica Surface V High Water Ma Sediment Water Ma Sediment Sediment Iron Depo Surface S Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Profincludes cap	rology Indicators: ators (minimum of or Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) in Visible on Aerial I Vegetated Concave rations: ar Present? Present? Y esent? y esent? y esent? y esent? y esent?	magery (B e Surface (I es es	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF  Other (Explain in Remarks)  No Depth (inches):   Depth (inch	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Roots (C3)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes  No
YDROLOG Wetland Hydrogramary Indica Surface V High Water Ma Sediment Water Ma Sediment Sediment Iron Depo Surface S Inundatio Sparsely Field Observ Surface Water Water Table I Saturation Profincludes cap	rology Indicators: ators (minimum of or Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) in Visible on Aerial I Vegetated Concave rations: ar Present? Present? Y esent? y esent? y esent? y esent? y esent?	magery (B e Surface (I es es	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)  Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils  Stunted or Stressed Plants (D1) (LF  Other (Explain in Remarks)  No  Depth (inches):  Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  RR A)  Raised Ant Mounds (D6) (LRR A)  Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes No
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