

WETLAND DELINEATION REPORT

for

Falcon Ranchettes Filing No. 1A El Paso County, Colorado

PREPARED FOR:

Meridian Storage, LLC 11750 Owl Place Peyton, CO 80831 Contact: Mike Texer mike.texer@gmail.com

PREPARED BY:

Bristlecone Ecology, LLC 2023 W. Scott Place Denver, CO 80211 Contact: Dan Maynard dmaynard@bristleconeecology.com

February 16, 2024



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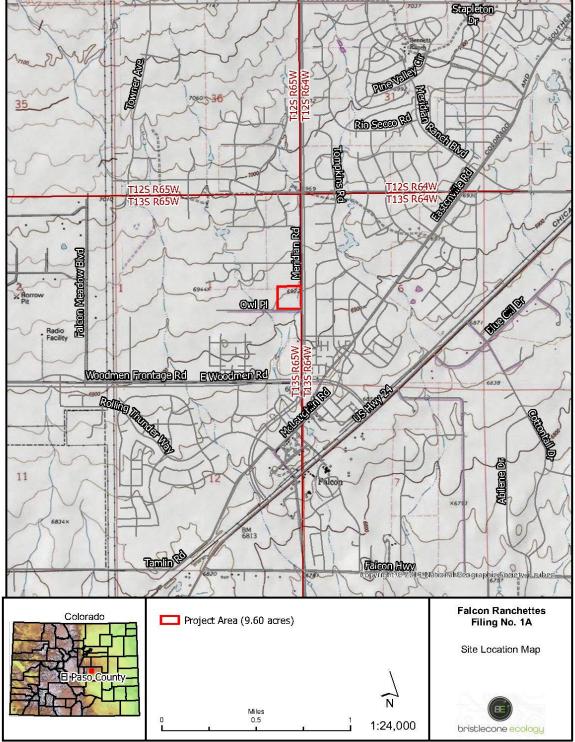
1 INTRODUCTION

Meridian Storage, LLC ("Proponent") has retained Bristlecone Ecology, LLC ("B.E." or "Agent") to perform a wetland assessment and prepare a Wetland Delineation Report for the proposed Falcon Ranchettes Filing No. 1A ("Project") located in the unincorporated community of Falcon, El Paso County, Colorado. The Project Area is located north of Owl Place and west of Meridian Road in El Paso County Parcel Nos. 5301001001 and 5301001002 (**Figure 1:** *Site Location Map*). The Project is located in Section 1 of Township 13 South, Range 65 West, and can be found on the U.S. Geological Survey's (USGS) Falcon 7.5-minute quadrangle (USGS 2020). The purpose of the Project is to subdivide the existing parcels into two new lots, tracts, public rights-of-way, and easements. Elevations at the site range between approximately 6,910 and 6,930 feet above mean sea level (AMSL). The area delineated for the Project (hereinafter referred to as the "Project Area") is located along the eastern edge of the Project Area, running north to south along Meridian Road. The Project Area eventually drains to Black Squirrel Creek No. 2 about 19 miles southeast of the site; it is found in the Black Squirrel Creek drainage basin, 10-digit hydrologic unit code (HUC) 1102000402.



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2 ECOLOGICAL SETTING

The Project Area is located in the Foothill Grasslands Level IV Ecoregion of Colorado (Chapman et al. 2006). The Foothills Grasslands ecoregion is composed of a mixture of tall and mid-grasses and isolated pine woodlands (Chapman et al. 2006). Dominant species in this ecoregion include little bluestem (Schizachyrium scoparium), big bluestem (Andropogon gerardii), switchgrass (Panicum virgatum), and yellow Indiangrass (Sorghastrum nutans) (Chapman et al. 2006).

The topography of the Project Area consists of a mix of flat to gently rolling grasslands, interspersed with scattered plains cottonwoods (*Populus deltoides*), ponderosa pines (*Pinus ponderosa*), and a few shrubs. A constructed ditch runs through the easternmost side of the site from north to south along Meridian Road and conveys flows from the site under Owl Place through a small culvert. A swale in the east-central portion of the site joins the constructed ditch a few hundred feet north of the culvert.

The majority of the site can be characterized by vegetation typical of the Foothills Grasslands ecoregion such as smooth brome (*Bromus inermis*), little bluestem, and switchgrass, along with a few weeds, including great mullein (*Verbascum thapsus*) and Canada thistle (*Cirsium arvense*). The ditch corridor has low plant diversity and is overall the least vegetated area on the site. Wetter conditions just north of the culvert under Owl Place, and in the swale to the north, support the growth of hydrophytes such as Baltic rush (*Juncus balticus*) and Nebraska sedge (*Carex nebrascensis*). The ditch and swale are both surrounded by New Mexico locust (*Robinia neomexicana*), smooth brome, switchgrass, blue grama, and common sunflowers (*Helianthus annuus*), among other upland vegetation. Rough cocklebur (*Xanthium strumarium*) and Canada thistle (*Cirsium arvense*) are common in both wetland and upland areas.



3 METHODS

The purpose of the wetland delineation was to survey and delineate the boundaries of any aquatic resources within the Project Area, as defined under Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act (RHA). Aquatic resources include jurisdictional wetlands and other regulated Waters of the U.S. (WOTUS) such as streams/rivers, ponds/lakes, and ditches, as well as non-regulated wetlands, streams/rivers, ponds/lakes, ditches, and other surface water features.

Prior to the on-site assessments, a preliminary desktop analysis was performed to evaluate overall aquatic resource characteristics of the Project Area and identify the locations of potential wetlands and watercourses. Spatial data, aerial imagery sources, and other publicly available data reviewed included:

- USGS National Aerial imagery Program (NAIP),
- USGS National Hydrography Dataset (NHD),
- U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) maps,
- Natural Resource Conservation Service (NRCS) soil survey maps,
- and Federal Emergency Management Agency (FEMA) floodplain maps.

A formal wetland delineation was conducted on February 1st, 2024. Watercourses and other aquatic features identified in the desktop analysis were inspected in the field to assess their presence/absence and jurisdictional potential. The wetland delineation was performed in accordance with the Great Plains Regional Supplement (Version 2.0) (USACE 2010) to the 1987 USACE Wetland Delineation Manual (USACE 1987).

The determination of a wetland depends on the presence or absence of three parameters: 1) hydrophytic vegetation, 2) hydric soils, and 3) wetland hydrology during the wettest season. Vegetation, soils, and hydrology were analyzed to determine the presence of wetlands, watercourses, and other aquatic features. The boundaries of any identified wetlands, watercourses, or other aquatic features were delineated using a handheld Trimble mapping unit with sub-meter accuracy (**Appendix A:** *Wetland Location Maps*). Photographs were taken depicting field conditions at the time of the site visits (**Appendix B:** *Photographic Log*). Results of the field assessment and descriptions of observed features are detailed below in **Appendix C:** *Wetland Determination Data Forms*, and **Appendix D:** *OHWM Delineation Datasheets*. Wetland indicator status for vegetation was based on the National Wetland Plant List (Lichvar et al. 2020).



4 BACKGROUND DOCUMENTATION REVIEW

Aerial photographs, NWI maps, FEMA flood hazard maps, and county soil survey maps were utilized to document background information on the Project Area prior to the on-site delineation. A discussion of each evaluation process follows.

4.1 Aerial Photograph Review

Aerial photographs dated 1999, 2003, 2004, 2005, 2006, 2011, 2013, 2015, 2017, 2019, 2020, 2021, and 2022 were obtained from the U.S. Department of Agriculture (USDA) Farm Service Agency (USDA 2022). Aerial photograph interpretation was conducted to identify potential wetlands, watercourses, and other notable landscape features within the property. Aerial imagery showed darker vegetation along a stretch of the eastern portion of the site, running from north to south, potentially indicative of wetlands. This darker vegetation appears to be comprised of primarily emergent vegetation with shrubs surrounding it. The shrubby vegetation is thickest and emergent vegetation appears darkest in the southern half of the Project Area. Other potential wetland areas were not noted on aerial images. Aerial images may provide a starting point for determining the locations of wetlands, but they are often inaccurate and must be field verified.

4.2 National Hydrography Dataset and National Wetlands Inventory Review

The USFWS' NWI and USGS' NHD datasets were reviewed for the possible presence of wetlands and streams, respectively, within the Project Area. The NHD and NWI datasets depict the probable locations of aquatic resources based on aerial photograph interpretation. Aquatic resources include jurisdictional wetlands and other regulated WOTUS such as streams/rivers, ponds/lakes, and ditches, as well as non-regulated wetlands, streams/rivers, ponds/lakes, ditches, and other surface water features. NHD and NWI maps may not accurately depict the extent or existence of wetland and river systems in a specific area, nor do maps consistently and accurately identify wetland type. As such, the maps were utilized for preliminary analysis only. Aquatic features that were depicted in the data can be seen in **Figure 2**: *National Wetland Inventory & National Hydrography Dataset*, and included the following feature:

• A wetland was identified in the NWI dataset as Riverine, Intermittent, Streambed, Temporarily Flooded wetland (R4SBA) running throughout the site; the R4SBA wetland was shown joining another Riverine wetland south of the site. The NHD data showed an unnamed stream in the same location as the R4SBA wetland.

4.3 County Soil Survey Map Review

County soil survey data indicate that the site is composed entirely of Columbine gravelly sandy loam, o to 3 percent slopes (**Figure 3**: NRCS Soils). The Columbine soil series is a consociation, so other, minor soil series may be present within it (NRCS 2023). The primary minor series that forms the remainder of the consociation is the Pleasant series, which is typically found in depressions and is rated as hydric in El Paso County (NRCS 2023).



A review of the hydric soil ratings for all soil components present in the Project Area was performed to aid in the determination of wetland habitats during the site reconnaissance. Hydric soils are those that form under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions, and their formation is required for the establishment of wetlands to take place. The Columbine series was described as having a hydric rating of 2 out of 100, with lower ratings being less hydric (NRCS 2020). The minor Pleasant component of the Columbine series is rated as hydric in EPC under the criterion that it is "frequently ponded for long or very long duration during the growing season" (NRCS 2020). Based on these ratings, the suitability of the site for the development of hydric soils, and thus wetlands, is moderate within swales and other depressions where the Pleasant component is more likely to be found, and low everywhere else. If wetlands occur onsite, they are most likely to form along swales and possibly within other isolated depressions.

4.4 FEMA Floodplain Map Review

A review of FEMA floodplain hazard maps (FEMA 2023) was conducted to determine the existence, location, and extent of floodplains located within the Project Area. The floodplain hazard maps depict floodplain areas along rivers and tributaries. The maps record the following data: 100-year floodplains (1% chance of annual flooding) and 500-year floodplains (0.2% annual chance of flooding), the height of the base flood (Base Flood Elevations), and the risk premium zones developed from topographical information across a floodplain. FEMA generates floodplain maps for flood insurance purposes.

A review of the National FEMA flood hazard layer (2023) indicated that the entirety of the Project Area is in Zone X and is thus in an area of minimal flood hazard and higher than the elevation of the 0.2-percent-annual-chance flood (**Figure 4**: FEMA Flood Hazard Layer; FEMA 2023).



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Figure 2: National Wetland Inventory & National Hydrography Dataset



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Figure 3: NRCS Soils



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Figure 4: FEMA Flood Hazard Layer



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5 FIELD SURVEY RESULTS

B.E. performed a formal wetland delineation on the site on February 1st, 2024, to determine whether any potential aquatic resources (particularly areas identified during the desktop review) were present. The field delineation determined that two wetlands (W1 and W2) were present, separated by a stretch of swale that was determined to be uplands (**Appendix A**: *Wetland Location Map*). Additionally, an ordinary high water mark (OHWM) was present and delineated, extending along the eastern border of the site from a headcut to the northern edge of W1. The presence of an OHWM was confirmed using the USACE's *National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams* (see datasheets in **Appendix D**). W2 was determined to be isolated, separated from W1 by an upland swale and thus lacking connection to downstream WOTUS. Sample points SP1 and SP4 were taken within wetlands, while SP2, SP3, Sp5, Sp6, and Sp7 were determined to be in uplands based on the vegetation, soils, and hydrology observed. The wetlands delineated on the site are further classified in **Table 1** below.

Wetland ID	Latitude	Longitude	Wetland Type	Size	Regulatory Status ¹
W1	W1 38.94633° -104.60797°		PEM1A – Palustrine, Emergent,	0.02	Presumed Non-
VV1	30.94033	-104.00/9/	Persistent, Temporarily Flooded	acres	Jurisdictional
W2			PEM1A – Palustrine, Emergent,	0.04	Presumed Non-
vv2	38.94687°	-104.60810°	Persistent, Temporarily Flooded	acre	Jurisdictional

Table 1. Project Area Wetland Locations and Classifications

¹Presumed status based on professional opinion. Only the USACE may determine official regulatory status.

The features listed in **Table 1** above are described in greater detail below. Photographs of the site can be seen in **Appendix B**, which includes general overview photos of the site. Datasheets for wetland and upland sampling and for OHWM delineations are provided in **Appendix C** and **Appendix D**, respectively.

The R4SBC wetland and stream depicted in the NWI and NHD, respectively, do not exist to the same extent as shown in those datasets (Figure 2). The feature instead exists as two wetlands (W1 and W2), separated by an upland swale. The swale does not contain an OHWM. Both wetlands are dominated by Baltic rush, and W2 is co-dominated by Nebraska sedge. Overall function is low to moderate, with a general lack of diversity in all strata and noxious weeds present within both wetlands (especially W2 to the north). Seven sample points were taken to determine the extents of these two wetlands. One sample point was taken within each wetland to establish the wetlands' characteristics. These points were paired with upland points laterally and longitudinally to confirm the extents of the wetlands. SP2 confirmed the western extent of W1, while SP3 confirmed that W1 did not extend further north along the line of the constructed ditch (Appendix A). SP5 and SP6 confirmed the western and northern extents of W2, and SP7 confirmed that W2 is not abutting W1 (Appendix A). The transition from wetland to upland conditions was clearly evident in all sample points, as the upland points did not support hydrophytic vegetation, hydric soil indicators, or indicators of wetland hydrology. Only one upland sample point (SP5) showed indicators of wetland hydrology, as discussed further below.



An additional aquatic feature was present that was not shown in the NWI or NHD. The constructed ditch along Meridian Road, which shows a faint OHWM starting from a headcut at the center of the eastern border to the northern boundary of W1, was observed in the field (Appendix B). This ditch is characterized by gravelly sediment deposits along the bottom of the ditch and gradual slope and subtle vegetation breaks along both sides of the ditch.

5.1 Vegetation

Dominant vegetation at wetland locations included the aforementioned Baltic rush and Nebraska sedge, facultative wetland (FACW) and obligate (OBL) plants, respectively, within the Great Plains Region (Lichvar *et al.* 2020). Overall, both wetlands were somewhat sparsely vegetated and, in some cases, less vegetated than adjacent upland areas. The upland locations were dominated by New Mexico locust, smooth brome, little bluestem, switchgrass, and blue grama (*Bouteloua gracilis*). There were no shrubs within the wetlands, and the transition to upland habitat was often marked by the presence of smooth brome and New Mexico locusts, along with sunflowers.

5.2 Soils

Seven soil samples were taken at soil sample pits within the Project Area (**Appendix C**). Soil samples were taken in either Columbine gravelly sandy loams or the minor Pleasant soil component. Soils in W1 predominantly corresponded to the Columbine series' soil profile, while soils in W2 corresponded with the Pleasant series (**Appendix C**).

For W1, one sample point was taken within the swale where the wetland exists (SP1), and two sample points was taken in uplands: SP2 along the western edge of the swale to confirm the extent of the wetland laterally to the swale, and SP3 longitudinally to confirm that W1 did not extend further north along the swale/ditch (**Appendix A**). The soils in the wetland were clearly hydric, while those outside the wetland were clearly nonhydric (**Appendix C**). Positive hydric soil indicators at the soil sample location within W1 included S5 (Sandy Redox) and F3 (Depleted Matrix).

At W2, one wetland sample point (SP4), located within the center of the wetland, was paired with three upland sample points to the west, north, and south of the wetland (**Appendix A**). Similar to W1, soils within this wetland were clearly hydric, while those outside the wetland were clearly nonhydric. Positive hydric soil indicators at the soil sample location within W2 included A4 (Hydrogen Sulfide) and F6 (Redox Depressions) (**Appendix C**). Three upland soil pits (SP5, SP6, and SP7) were dug to confirm extents of W2 and further support the disconnection from W1. SP5 and SP6 established the limits of W2 to the west and north, while SP7 also showed nonhydric soil conditions and further confirmed that the two wetlands were not connected. See **Appendix A** and **Appendix C**.

5.3 Hydrology

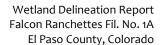
Hydrology across all wetlands in the Project Area is provided primarily by normal precipitation and runoff events. Positive hydrologic indicators within both wetland areas were prominent, while almost all the upland sample points, except SP3, showed no indication of hydrologic indicators. At SP1 within W1, positive hydrologic indicators included B3 (Drift Deposits), B10 (Drainage Patterns), D2 (Geomorphic Position), and D5 (FAC-Neutral Test) (**Appendix C**). At sample point within W2 (SP4), positive hydrologic indicators included A3 (Saturation), C1 (Hydrogen Sulfide Odor), C3 (Oxidized Rhizospheres on Living Roots), D2 (Geomorphic Position), and D3 (FAC-Neutral Test) (**Appendix C**).



Upland sample point SP3 did contain one primary and one secondary indicator of wetland hydrology – B3 (Drift Deposits) and D2 (Geomorphic Position) – however, it did not pass the vegetation or soil requirements for wetlands. Hydrologic indicators were expected at this sample location, which was located within the constructed ditch and demonstrated indicators of an OHWM. See **Appendix A** and **Appendix C**.

5.4 Ordinary High Water Mark

An OHWM delineation was performed at sample locations within the constructed ditch and swale between W1 and W2 to determine whether the wetlands on the site were hydrologically connected to one another and to other aquatic resources. OHWM SP1 determined that a faint OHWM was present along the constructed ditch north of W1 up to a headcut, north of which the ditch transitioned to a vegetated swale lacking OHWM indicators (**Appendix A** and **Appendix D**). OHWM SP2, located between W1 and W2 along a separate swale, confirmed that no OHWM indicators were present and the that two wetlands were hydrologically disconnected (**Appendix A** and **Appendix D**).



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6 CONCLUSIONS AND RECOMMENDATIONS

In summary, two Palustrine emergent wetlands (W1 and W2) were delineated within the Project Area. The two wetlands were separated by an upland swale and were not connected hydrologically, as there was no evidence of an OHWM in the swale between them, nor were they abutting. There was an OHWM present north of W1 that began at a distinct headcut along the eastern border of the site where channelization began and a defined streambed and banks formed. The OHWM was present in a constructed ditch which connected to the northern extent of W1.

These features occurred in similar location to those shown in the NWI and NHD, but to a lesser extent (as confirmed by sample points). Both W1 and W2 appeared to receive hydrology from normal precipitation and runoff events with no other sources of hydrology present. A primary source of hydrology was the constructed ditch along the eastern boundary of the site. The two wetlands contained similar vegetation, however W2 was slightly more diverse and vegetated than W1. W2 appeared to be non-jurisdictional based on field observations of a lack of continuous surface connection to W1 or any other downstream WOTUS. W1 may also be disconnected from downstream WOTUS due to significant offsite development downstream Project Area that appeared on aerial imagery to sever connection. Should it be determined that these wetlands are jurisdictional. any impacts would require permitting through the USACE under Section 404 of the CWA.

The USACE typically has jurisdiction over navigable or traditionally navigable waters (TNWs), perennial and intermittent tributaries to TNWs, lakes, ponds, and impoundments of jurisdictional waters, and wetlands adjacent to such waters (85 Federal Register 22250). Following the announcement of the U.S. Supreme Court's ruling on May 25th, 2023 (SCOTUS 2023), jurisdictional wetlands include only those wetlands that abut or maintain "a continuous surface connection" to WOTUS. Isolated and adjacent wetlands (i.e., those not abutting or otherwise hydrologically connected to other jurisdictional waters) are not considered WOTUS and are not under USACE's jurisdiction. An approved jurisdictional determination (AJD) may be required to determine the regulatory status of presumably non-jurisdictional aquatic resources, such as isolated or adjacent wetlands, including both W1 and W2.

Pursuant to CWA requirements, impacts to WOTUS should be avoided and minimized to the extent possible. A permit under Section 404 of the CWA is required for the discharge of dredged or fill material into WOTUS and mitigation may be required.

While the USACE regulates only those activities resulting in a discharge of dredge or fill material into WOTUS, the Colorado Department of Public Health and Environment (CDPHE) has the authority to regulate activities resulting in a discharge of pollutants into state waters. The CDPHE conducts Section 401 certification reviews of projects in Colorado requiring a Section 404 permit from the USACE. The purpose of certification review is to determine whether a proposed discharge will comply with Colorado water quality standards. CDPHE has an interest in Waters of the State, which currently have a broader definition that WOTUS.

In Colorado, joint Section 404 and 401 permitting is authorized through the Nationwide Permit (NWP) program. An NWP is a simplified 404 permit for some small-scale activities which minimally affect WOTUS, and is designed to streamline the permitting process and eliminate the need to issue an Individual Permit (IP). NWPs allow certain activities to take place which result in minimal impacts to



WOTUS, including wetlands. If the Project should require a permit, an NWP 29 for Residential Developments would likely be the applicable NWP for the Project. The extent of wetlands on the site is minimal and any impacts would be permissible under an NWP, should one be required.

In the event that all aquatic resources on the site are determined to be non-jurisdictional by the USACE, the wetlands present may still be Waters of the State. CDPHE advises anyone who would conduct activities causing the dredge or fill of Waters of the State that are not regulated by the USACE to notify CDPHE of the activity.

Should you have any questions regarding the information or recommendations provided in this report, please feel free to contact Bristlecone Ecology at dmaynard@bristleconeecology.com.

Sincerely, Bristlecone Ecology, LLC

June Mayund

Daniel Maynard Ecologist



7 REFERENCES

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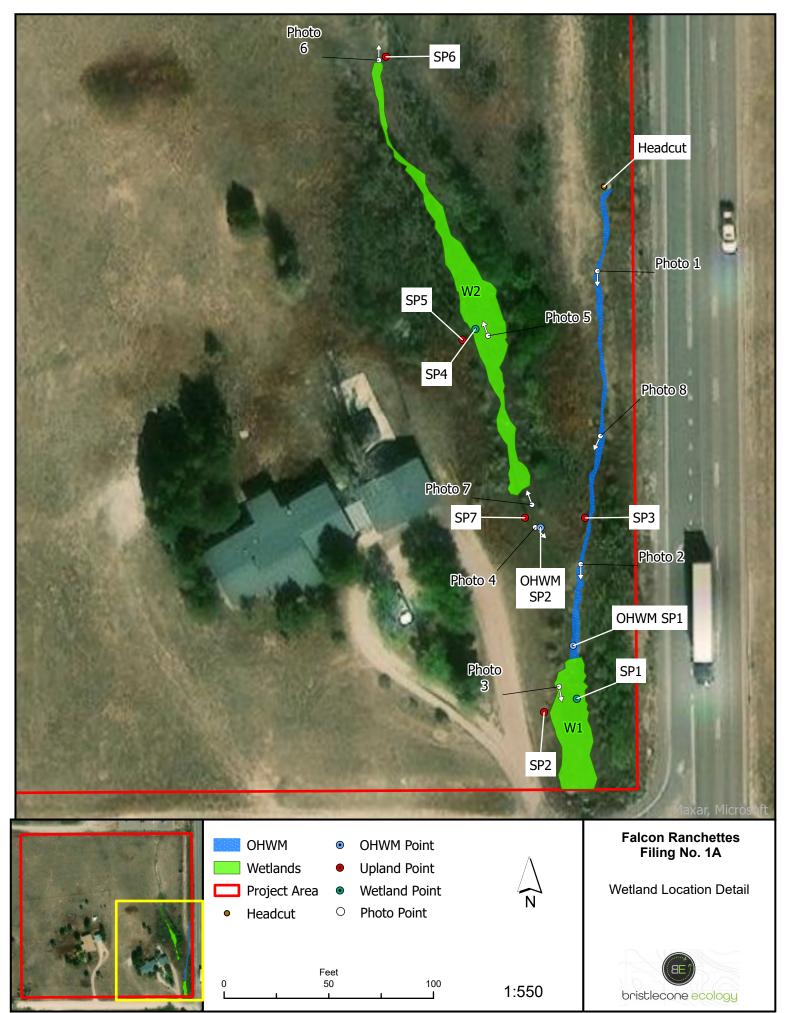


Appendices

APPENDIX A:

WETLAND LOCATION MAP





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Appendices

APPENDIX B:

PHOTOGRAPHIC LOG



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Photo 1 – View facing south of the constructed ditch showing the topographic, sediment, and vegetation changes of an OHWM; the ditch eventually connects with Wetland 1 to the south.



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Photo 2 – Another view facing south of the constructed ditch and OHWM, just north of OHWM SP1. The confluence between the ditch and W1 can be seen in the top half of the photo. Rock riprap has been installed in this section of the ditch and can be seen in the photo.



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Photo 3 – View facing south-southeast, looking at W1 and the culvert under Owl Place, taken near SP1, SP2, and OHWM SP1. Baltic rush dominates the wetland and the transition to uplands is marked by the presence of smooth brome, common sunflower, and New Mexico locust. The wetland ends at the culvert under Owl Place that can be seen under the roadway.



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Photo 4 – Photo taken at SP7 and OHWM SP2, looking southeast at the vegetated swale between W1 and W2. Sampling confirmed that no wetlands or OHWM are present in the connecting swale. The area is a trasition from the depression containing W2, and is dominated by smooth brome, little bluestem, and switchgrass.



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Photo 5 – View facing north-northwest of W2, taken near SP4. W2 is a depressional wetland within a swale that does not contain surface connection to W1 downstream. This wetland is dominated by Baltic rush and Nebraska sedge (both visible in the photo) and is surrounded by smooth brome, switch grass, and New Mexico locust at the edges of the depression. Noxious weeds including common mullein and Canada thistle are also present in the transition area from wetland to upland in W2.



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Phot 6 – View facing north of the northernmost limit of W2, taken near SP6, where vegetation transitions to upland grass dominated by smooth brome, little bluestem, and blue grama.



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Photo 7 – View facing north-northwest of the transition area between W2 and the upland swale south of the wetland behind the viewer. The abrupt vegetative transition from Baltic rush to smooth brome is clear in the foreground.



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Photo 8 – View facing south-southwest of the heavily vegetated area along the constructed ditch, north of W1. This area is dominated by little bluestem and switchgrass and contains a very faint OHWM, marked primarily by sediment deposits along the bottom of the ditch and subtle topographic changes along the side slopes of the ditch on both sides.



Appendices

APPENDIX C:

WETLAND DETERMINATION DATA FORMS

U.S. Army Corps of Engineers Controlled Unclassified Information Determination WETLAND DETERMINATION DATA SHEET – Great Plains Region See ERDC/EL TR-10-1; 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: Falcon Ranchettes City/C	ounty: <u>El Paso Coun</u> t	Sampling Date:	2/1/24			
Applicant/Owner: Meridian Storage LLC		State:	СО	Sampling Point:	SP1	
Investigator(s): Dan Maynard, Emily DeAlto Section	, Township, Range:	S1, T1	3S, R65W			
Landform (hillside, terrace, etc.): ditch/swale Local relief	(concave, convex, no	one): (Concave	Slop	e (%):4	
Subregion (LRR/MLRA): LRR G Lat: <u>38.946427</u>	Long:	-104.60	07953	Datum:	WGS84	
Soil Map Unit Name: Columbine (Torriothenic Haplustolls)		I	WI classific	ation: R4SBC		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed?	Are "Normal Circum	stances	" present?	Yes <u>X</u> No)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic?	(If needed, explain a	ny ansv	vers in Rema	arks.)		
SUMMARY OF FINDINGS – Attach site map showing sample	ing point locatio	ns, tra	ansects, i	mportant featu	ires, etc.	

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

VEGETATION – Use scientific names of plants.

Tree Stratum (Distaire: 20,20)	Absolute	Dominant	Indicator	Dominon of Toot	werkebe	- 4 .		
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test				
1				Number of Domin	•	es That	1	(A)
				Are OBL, FACW,	or FAC:	-	I	(A)
3				Total Number of D		Species		
4				Across All Strata:		-	1	(B)
		=Total Cover		Percent of Domina	•	es That		
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW,	or FAC:	-	100.0%	(A/B)
1								
2				Prevalence Index	« workshe	eet:		
3				Total % Cover of:		Multipl	y by:	
4				OBL species	0	x 1 =	0	_
5				FACW species	60	x 2 =	120	
		=Total Cover		FAC species	15	x 3 =	45	_
Herb Stratum (Plot size: 5x5')				FACU species		x 4 =	24	
1. Juncus balticus	60	Yes	FACW	UPL species	0	x 5 =	0	
2. Helianthus annuus	5	No	FACU	Column Totals:	81	(A)	189	(B)
3. Xanthium strumarium	15	No	FAC	Prevalence Index	= B/A =		2.33	
4. Cirsium arvense	1	No	FACU					
5				Hydrophytic Veg	etation In	dicators:		
6.				1 - Rapid Tes	t for Hydro	ophytic Ve	getation	
7.				X 2 - Dominanc	e Test is >	>50%		
8.				X 3 - Prevalenc	e Index is	≤3.0 ¹		
9.				4 - Morpholog	gical Adap	tations ¹ (P	rovide sup	porting
10				data in Rer				Ū
		=Total Cover		Problematic H	- Ivdrophyti	c Vegetati	on ¹ (Explai	n)
Woody Vine Stratum (Plot size: 15x15')				¹ Indicators of hydr		-		
1,				present, unless di				iusi be
2				Hydrophytic				
		=Total Cover		Vegetation				
% Bare Ground in Herb Stratum 20				Present?	Yes X	No		
Remarks:								

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Sampling Point: SP1

	cription: (Describe to	the depth r				r or cor	nfirm the absence of	f indicators.)
Depth	Matrix			ox Feature		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/2	99	5YR 4/6	1	С	М	Sandy	Loamy sand
7-15	10YR 4/2	98	5YR 4/6	2	С	PL/M	Loamy/Clayey	Sandy loam
15-24	10YR 3/2	96	5YR 4/6	4	С	Μ	Loamy/Clayey	Sandy clay loam
¹ Type: C=Co	oncentration, D=Deplet	ion, RM=Re	duced Matrix, C	S=Covere	d or Coat	ted Sand	d Grains. ² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicabl	e to all LRR	s, unless other	rwise not	ed.)		Ind	licators for Problematic Hydric Soils ³ :
Histosol	(A1)			Sandy G	leyed Ma	ıtrix (S4)		1 cm Muck (A9) (LRR I, J)
Histic Ep	oipedon (A2)		X	Sandy R	edox (S5)		High Plains Depressions (F16)
Black Hi	istic (A3)			Stripped	Matrix (S	6)		(LRR H outside of MLRA 72 & 73)
Hydroge	en Sulfide (A4)			Loamy N	lucky Mir	neral (F1)	Reduced Vertic (F18)
Stratified	d Layers (A5) (LRR F)			Loamy G	Bleyed Ma	atrix (F2))	Red Parent Material (F21)
1 cm Mu	uck (A9) (LRR F, G, H)		X	Depleted	l Matrix (F	F3)		Very Shallow Dark Surface (F22)
Depleted	d Below Dark Surface (A11)		Redox D	ark Surfa	ace (F6)		Other (Explain in Remarks)
Thick Da	ark Surface (A12)			Depleted	l Dark Su	ırface (F	7)	
Sandy M	lucky Mineral (S1)			Redox D	epressio	ns (F8)		
2.5 cm N	Mucky Peat or Peat (S2) (LRR G, H)	High Pla	ins Depre	essions	(F16) ³ Inc	dicators of hydrophytic vegetation and
5 cm Mu	ucky Peat or Peat (S3)	(LRR F)		(MLR	A 72 & 7	3 of LR	R H)	wetland hydrology must be present,
								unless disturbed or problematic.
	Layer (if observed):							
Type:	N/A		_					
Depth (ir	nches):		_				Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:								
HYDROLO								
	drology Indicators:	ia raguira du	abook all that a	nnh ()			Second	lan (Indiastora (minimum of two required)
	<u>cators (minimum of one</u> Water (A1)	e is requirea;	Salt Crust					lary Indicators (minimum of two required)
	()		Aquatic Ir	. ,	oo (P12)			rface Soil Cracks (B6) arsely Vegetated Concave Surface (B8)
	ater Table (A2)		·		. ,			• •
Saturatio				Sulfide O		n)		ainage Patterns (B10)
	larks (B1) at Donacita (B2)		Dry-Seas					idized Rhizospheres on Living Roots (C3)
	nt Deposits (B2)			Rhizosphe		iving Ro	. , .	where tilled)
X Drift Dep	. ,			not tilled		24)		ayfish Burrows (C8)
	at or Crust (B4)			of Reduc		(4)		turation Visible on Aerial Imagery (C9)
	posits (B5)	(5-7)		k Surface	. ,			omorphic Position (D2)
	on Visible on Aerial Ima	agery (B7)	Other (Ex	plain in Re	emarks)			C-Neutral Test (D5)
	tained Leaves (B9)							ost-Heave Hummocks (D7) (LRR F)
Field Obser			NI 14	.				
Surface Wat			No <u>X</u>		nches):			
Water Table		š	No <u>X</u>		nches):		Watland Understa	any Bracont? Vac V
Saturation P		·	No <u>X</u>	Depth (i	ncnes):		Wetland Hydrold	ogy Present? Yes <u>X</u> No
(includes cap				nhat-) if even it et	
Describe Re	corded Data (stream g	auge, monito	ning well, aerial	pnotos, p	evious ir	spection	ns), it available:	
Pemarka								
Remarks: ENG FORM 6 [°]	116-5, JUL 2018							
		d Inform	nation (C)					
CONTROL	ed Unclassifie	a intorr	nation (Cl	лу				Great Plains – Version :

Controlled Unclassified Information Provineers WETLAND DETERMINATION DATA SHEET – Great Plains Region

See ERDC/EL TR-10-1; 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: Falcon Ranchettes City/C	County: El Paso Count	Sampling Date:	2/1/24		
Applicant/Owner: Meridian Storage LLC		State:	со	Sampling Point:	SP2.
Investigator(s): Dan Maynard and Emily DeAlto Section	n, Township, Range:	S1, T13S	8, R65W		
Landform (hillside, terrace, etc.): side slope Local relie	f (concave, convex, no	one): <u>no</u>	ne	Slop	oe (%):7
Subregion (LRR/MLRA): LRR G Lat: <u>38.946362</u>	Long:	-104.608	033	Datum:	WGS84
Soil Map Unit Name: Columbine (Torriothenic Haplustolls)		NV	VI classific	cation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>X</u> No		(If no, exp	lain in Remarks.)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed?	Are "Normal Circum	stances" p	present?	Yes <u>X</u> No)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic?	(If needed, explain a	any answe	rs in Rema	arks.)	
SUMMARY OF FINDINGS - Attach site man showing same	ling point locatio	ne tran	isocts i	important foati	uros oto

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

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

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test	t workshe	et:		
1				Number of Domir	nant Specie	es That		
2				Are OBL, FACW,	or FAC:	-	0	(A)
3.				Total Number of	Dominant \$	Species		
4				Across All Strata:	:	· _	2	(B)
	:	=Total Cover		Percent of Domir	ant Specie	es That		
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW,	or FAC:	_	0.0%	(A/B)
1. Robinia neomexicana	10	Yes	UPL					
2.				Prevalence Inde	x workshe	et:		
3.				Total % Cover of		Multipl	y by:	
4.				OBL species	0	x 1 =	0	
5.				FACW species	10	x 2 =	20	
	10	=Total Cover		FAC species	0	x 3 =	0	
Herb Stratum (Plot size: 5x5')				FACU species	18	x 4 =	72	_
1. Bromus inermis	70	Yes	UPL	UPL species	81	x 5 =	405	_
2. Juncus balticus	10	No	FACW	Column Totals:	109	(A)	497	(B)
3. Helianthus annuus	2	No	FACU	Prevalence Index	c = B/A =		4.56	_
4. Chenopodium album	3	No	FACU					
5. Verbascum thapsus	1	No	UPL	Hydrophytic Veg	getation In	dicators:		
6. Salsola tragus	10	No	FACU	1 - Rapid Te	st for Hydro	ophytic Ve	getation	
7. Hordeum pusillum	3	No	FACU	2 - Dominan	ce Test is >	>50%		
8.				3 - Prevalenc	ce Index is	≤3.0 ¹		
9.				4 - Morpholo	gical Adap	tations ¹ (Pi	rovide sup	porting
10					marks or o			. 0
	99	=Total Cover		Problematic	Hydrophyti	c Vegetatio	on ¹ (Expla	in)
Woody Vine Stratum (Plot size: 15x15')				¹ Indicators of hyd		-		,
1,				present, unless d				nusi be
2				Hydrophytic				
	:	=Total Cover		Vegetation				
% Bare Ground in Herb Stratum 5				Present?	Yes	No	Х	
Remarks:								

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Sampling Point:	SP2.
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Profile Descr Depth	iption: (Describe Matrix	to the depth		tent the x Feature		or or con	firm the absence of	ot indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 4/3	100					Sandy		Loamy sand	
6-12	10YR 4/3	100					Loamy/Clayey		Sandy loam	
12-24	2.5Y 5/3	100					Sandy		Loamy sand	
									,	
			educed Matrix, CS:	-Covera	d or Cool	tod Sand		ocation: PL=Por	o Lining M-N	lotrix
			Rs, unless otherv			led Sand		dicators for Pro	-	-
Histosol (A					leyed Ma	atrix (S4)		1 cm Muck (A	-	
	pedon (A2)			•	edox (S5	. ,		High Plains De		6)
Black Hist					Matrix (S			-	tside of MLR	
Hydrogen	Sulfide (A4)			Loamy N	lucky Mir	neral (F1)	Reduced Vert	ic (F18)	
Stratified	Layers (A5) (LRR	F)	!	Loamy G	leyed Ma	atrix (F2)				
	k (A9) (LRR F, G ,				l Matrix (I		_	Very Shallow Dark Surface (F2		
·	Below Dark Surfac	æ (A11)			ark Surfa	• • •		Other (Explain	n in Remarks)	
	k Surface (A12)			•	l Dark Su epressio	•	7)			
	icky Mineral (S1) ucky Peat or Peat ((S2) (I RR G I			ins Depre		(F16) ³ lr	ndicators of hydro	onhytic vegeta	tion and
	ky Peat or Peat (S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	-	A 72 & 7		, ,	wetland hydro		
	,	-/(/		,			,	unless disturb		-
Restrictive La	ayer (if observed)	:								
Туре:	N/A	١								
Depth (ind	ches):						Hydric Soil Prese	ent?	Yes	No <u>X</u>
Remarks:										
HYDROLOG	GY									
Wetland Hydi	rology Indicators:									
Primary Indica	tors (minimum of o	one is required	l; check all that app	ply)			Secon	dary Indicators (minimum of tw	vo required)
Surface V	Vater (A1)		Salt Crust ((B11)			Surface Soil Cracks (B6)			
	High Water Table (A2) Aquatic Invertebrates (B13)							parsely Vegetate		rface (B8)
Saturation	. ,		Hydrogen S					ainage Patterns		- (())
Water Ma			Dry-Seasor		•	,		xidized Rhizosph (where tilled)	eres on Living	Roots (C3)
Drift Depo	Deposits (B2)		Oxidized R (where n			iving Roo		(where tilled) ayfish Burrows ((C8)	
	. ,		•			24)		aturation Visible	. ,	erv (C9)
	Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Thin Muck Surface (C7)					01)		eomorphic Positi	-	01) (00)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)								AC-Neutral Test		
Water-Sta	ained Leaves (B9)						Fr	ost-Heave Hum	mocks (D7) (L	RR F)
Field Observa	ations:									
Surface Wate	r Present?	Yes		Depth (i	nches):					
Water Table F		Yes		Depth (i						
Saturation Pre		Yes	No <u>X</u>	Depth (i	nches):		Wetland Hydro	logy Present?	Yes	No <u>X</u>
(includes capil Describe Reco		1 gauge, monit	toring well, aerial p	hotos n	revious ir	rspection	l ns), if available:			
200010011000	Sala Dala (onodin	. <u>355</u> 90, monii					,,			
Remarks: E NG iFØRM P691	p 6≘5 ç0ÚL 2018									

Controlled Unclassified Information Provineers WETLAND DETERMINATION DATA SHEET – Great Plains Region

See ERDC/EL TR-10-1; 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: Falcon Ranchettes City	County: El Paso County Sampling Date: 2/1/24
Applicant/Owner: Meridian Storage LLC	State: CO Sampling Point: SP3
Investigator(s): Dan Maynard and Emily DeAlto Section	n, Township, Range: <u>S1, T13S, R65W</u>
Landform (hillside, terrace, etc.): Ditch Local rel	ef (concave, convex, none): <u>Concave</u> Slope (%): <u>3</u>
Subregion (LRR/MLRA): LRR G Lat: <u>38.946619</u>	Long: -104.607968 Datum: WGS84
Soil Map Unit Name: Columbine (Torriothenic Haplustolls)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF EINDINGS Attach aits man abowing some	ling point locations, transacts, important features, atc

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

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

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test worksheet:				
1				Number of Dominant Species That				
2				Are OBL, FACW, or FAC: 1 (A)				
3				Total Number of Dominant Species				
4.				Across All Strata: <u>3</u> (B)				
		=Total Cover		Percent of Dominant Species That				
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)				
1. Robinia neomexicana	5	Yes	UPL					
2				Prevalence Index worksheet:				
3				Total % Cover of: Multiply by:				
4.				OBL species 0 x 1 = 0				
5.				FACW species 2 x 2 = 4				
	5	=Total Cover		FAC species 50 x 3 = 150				
Herb Stratum (Plot size: 5x5')				FACU species 27 x 4 = 108				
1. Schizachyrium scoparium	25	Yes	FACU	UPL species 23 x 5 = 115				
2. Helianthus annuus	2	No	FACU	Column Totals: 102 (A) 377 (B)				
3. Bromus inermis	18	No	UPL	Prevalence Index = B/A = 3.70				
4. Juncus dudleyi	2	No	FACW					
5. Panicum virgatum	45	Yes	FAC	Hydrophytic Vegetation Indicators:				
6. Other grass	4	No	FAC	1 - Rapid Test for Hydrophytic Vegetation				
7. Xanthium strumarium	1	No	FAC	2 - Dominance Test is >50%				
8.				3 - Prevalence Index is ≤3.0 ¹				
9.				4 - Morphological Adaptations ¹ (Provide supporting				
10.				data in Remarks or on a separate sheet)				
	97	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)				
<u>Woody Vine Stratum</u> (Plot size: <u>15x15'</u>)				¹ Indicators of hydric soil and wetland hydrology must be				
1				present, unless disturbed or problematic.				
2				Hydrophytic				
		=Total Cover		Vegetation				
% Bare Ground in Herb Stratum				Present? Yes No X				
Remarks:								

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Sampling	Point:	SP3

Profile Desc	ription: (Describe to	the depth	needed to docu	ment the	indicato	r or con	firm the absence	of indicators.)		
Depth	Matrix		Redo	ox Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-7	10YR 3/2	99	7.5YR 4/6	1	С	М	Loamy/Clayey	y Promine	ent redox conce	ntrations
7-24	10YR 4/3	100					Sandy		Loamy sand	
									·	
		<u> </u>		• •						
¹ Type: C=Co	ncentration, D=Deple	tion, RM=Re	educed Matrix, CS	S=Covere	d or Coat	ted Sanc	d Grains. 2	² Location: PL=Pc	re Lining, M=Ma	atrix.
-	ndicators: (Applicab	le to all LR	Rs, unless other		•			Indicators for Pro	-	ric Soils ³ :
Histosol	. ,				leyed Ma	• •	-	1 cm Muck (A		
	ipedon (A2)				edox (S5		-	-	epressions (F16	,
Black His	. ,			- · ·	Matrix (S	,		•	Itside of MLRA	72 & 73)
	n Sulfide (A4)			-	/lucky Mir			Reduced Ver	()	
	Layers (A5) (LRR F)			-	Gleyed Ma	• •) –	Red Parent M		
	ck (A9) (LRR F, G, H) Below Dark Surface				d Matrix (I		Very Shallow Dark Surface (F22)			-22)
·	rk Surface (A12)	(ATT)	Redox Dark Surface (Depleted Dark Surface			• • •				
	ucky Mineral (S1)			• •	epressio	``	")			
	lucky Peat or Peat (S	2) (LRR G. I		•	ins Depre	• •	(F16) ³	³ Indicators of hydr	ophytic vegetati	ion and
	cky Peat or Peat (S3)		-,	-	RA 72 & 7			-	ology must be pr	
	, (-)	()		· ·			,	-	ed or problema	
Restrictive L	ayer (if observed):									
Туре:	N/A									
Depth (in	iches):		_				Hydric Soil Pres	sent?	Yes	No <u>X</u>
Remarks:										
Redox preser	nt in uppermost layer,	not enough	to pass any indic	ator metri	ics					
HYDROLO	GY									
Wetland Hyd	Irology Indicators:									
Primary Indic	ators (minimum of on	e is required	l; check all that ap	oply)			Seco	ondary Indicators	minimum of two	o required)
Surface \	Water (A1)		Salt Crust	(B11)			:	Surface Soil Crac	ks (B6)	
High Wat	ter Table (A2)		Aquatic In	vertebrat	es (B13)		:	Sparsely Vegetate	ed Concave Sur	face (B8)
Saturatio	()		Hydrogen					Drainage Patterns	()	
Water Ma	()		Dry-Seaso		`	,		Oxidized Rhizospl	neres on Living	Roots (C3)
	t Deposits (B2)		Oxidized F			iving Ro		(where tilled)	(00)	
X Drift Dep			•	not tilled	•	24)		Crayfish Burrows	. ,	(00)
	t or Crust (B4)		Presence			(4ر		Saturation Visible	-	ery (C9)
	osits (B5) Nicible on Acrial Im		Thin Muck					Geomorphic Posit		
	on Visible on Aerial Im ained Leaves (B9)	ayery (D7)	Other (Ex	Jan II R	emarks)			FAC-Neutral Test Frost-Heave Hum	()	R F)
	()						'			
Field Observ		-	No. Y	Darth /	noh c = \;					
Surface Wate Water Table I		s s	No <u>X</u> No X	Depth (i Depth (i	inches): inches):					
Saturation Pr			No X	Depth (i			Wetland Hydr	ology Present?	Yes X	No
(includes cap				(1					<u> </u>	·

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

Remarks:

ENG FORM 6116-5, JUL 2018

Controlled Unclassified Information Determined Plains Region WETLAND DETERMINATION DATA SHEET – Great Plains Region

See ERDC/EL TR-10-1; the proponent agency is CECW-CO-R (Authorit

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Falcon Ranchettes City	/County: El Paso Coun	ty		Sampling Date	: 2/1/24
Applicant/Owner: Meridian Storage LLC		State:	СО	Sampling Point	:: SP4
Investigator(s): Dan Maynard and Emily DeAlto Section	ion, Township, Range:	S1, T1	3S, R65W		
Landform (hillside, terrace, etc.): swale Local rel	ief (concave, convex, no	one): (Concave	S	lope (%): <u>3</u>
Subregion (LRR/MLRA): LRR G Lat: <u>38.946868</u>	Long:	-104.60	08149	Datum	: WGS84
Soil Map Unit Name: Pleasant (Torrertic Arguistolls)		I	NWI classific	cation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>X</u> No)	(If no, exp	lain in Remarks.)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed	? Are "Normal Circum	stances	" present?	Yes X	No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic?	(If needed, explain a	any ansv	vers in Rema	arks.)	

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

Hydric Soil Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Wetland Hydrology Present?	Yes	Х	No				

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test	workshee	et:		
1				Number of Domin		es That		
2.				Are OBL, FACW,	or FAC:	_	2	(A)
3				Total Number of [Dominant \$	Species		
4				Across All Strata:		-	2	(B)
		=Total Cover		Percent of Domin	ant Specie	s That		
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW,	or FAC:	_	100.0%	(A/B)
1. Robinia neomexicana	3	No	UPL					
2.				Prevalence Index	x workshe	et:		
3				Total % Cover of:		Multipl	y by:	
4				OBL species	40	x 1 =	40	
5.				FACW species	30	x 2 =	60	
	3	=Total Cover		FAC species	0	x 3 =	0	
Herb Stratum (Plot size: 5x5')				FACU species	15	x 4 =	60	_
1. Juncus balticus	30	Yes	FACW	UPL species	5	x 5 =	25	_
2. Carex nebrascensis	40	Yes	OBL	Column Totals:	90	(A)	185	(B)
3. Cirsium arvense	15	No	FACU	Prevalence Index	= B/A =		2.06	
4. Verbascum thapsus	2	No	UPL					_
5.				Hydrophytic Veg	jetation In	dicators:		
6.				1 - Rapid Tes	st for Hydro	ophytic Ve	getation	
7.				X 2 - Dominand	e Test is >	•50%		
8.				X 3 - Prevalence	e Index is	≤3.0 ¹		
9.				4 - Morpholog	gical Adap	tations ¹ (Pi	rovide sup	porting
10				data in Rei	marks or o	n a separa	ate sheet)	Ū
		=Total Cover		Problematic I	Hydrophyti	c Vegetatio	on ¹ (Explai	n)
Woody Vine Stratum (Plot size: 15x15')				¹ Indicators of hyd		-		
<u> </u>				present, unless di				iusi be
2.				• •				
		=Total Cover		Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 13				•	Yes X	No		
Remarks:				l				

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som trolled Unclassified Information (CUI)

nation	(CUI)		

Sampling Point:

SP4

Depth	Matrix		Redo	ox Featur	es						
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-12	10YR 3/1	93	5YR 4/6	7	С	PL/M	Loamy/Claye	y Prominent redox concentrations			
						·					
					—						
		·									
Type: C=Cor	ncentration, D=Deple	etion, RM=I	Reduced Matrix, CS	S=Covere	d or Coat	ted Sand (Grains.	² Location: PL=Pore Lining, M=Matrix.			
lydric Soil In	ndicators: (Applicat	ole to all L	RRs, unless other	wise not	ed.)			Indicators for Problematic Hydric Soils ³			
Histosol (Histosol (A1)				leyed Ma	ıtrix (S4)	-	1 cm Muck (A9) (LRR I, J)			
Histic Epi	pedon (A2)			Sandy Redox (S5)			_	High Plains Depressions (F16)			
Black Hist	tic (A3)			Stripped Matrix (S6)			(LRR H outside of MLRA 72 & 73				
X Hydrogen	n Sulfide (A4)			Loamy N	lucky Mir	neral (F1)		Reduced Vertic (F18)			
Stratified	Layers (A5) (LRR F)			Loamy G	Bleyed Ma	atrix (F2)	-	Red Parent Material (F21)			
1 cm Muc	k (A9) (LRR F, G, H)		Depleted	l Matrix (I	F3)	-	Very Shallow Dark Surface (F22)			
Depleted	Below Dark Surface	(A11)		Redox Dark Surface (F6)				Other (Explain in Remarks)			
 Thick Dar	k Surface (A12)			Depleted	l Dark Su	Irface (F7)	-				
Sandy Mu	ucky Mineral (S1)		X	Redox D	epressio	ns (F8)					
	ucky Peat or Peat (S	2) (LRR G	, H)	High Pla	ins Depre	essions (F	16)	³ Indicators of hydrophytic vegetation and			
5 cm Muc	5 cm Mucky Peat or Peat (S3) (LRR F)			(MLR	A 72 & 7	3 of LRR	,	wetland hydrology must be present, unless disturbed or problematic.			
Restrictive La	ayer (if observed):										
Type:	N/A										
	ches):					1	Hydric Soil Pre	sent? Yes X No			

HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of one is required	; check all that apply)	Secondary Indicators (minimum of two required)				
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)				
High Water Table (A2)	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)				
X Saturation (A3)	X Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)				
Water Marks (B1)	Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3)				
Sediment Deposits (B2)	pots (C3) (where tilled)					
Drift Deposits (B3)	(where not tilled)	Crayfish Burrows (C8)				
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)				
Iron Deposits (B5)	Thin Muck Surface (C7)	X Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)	Frost-Heave Hummocks (D7) (LRR F)					
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes X	No Depth (inches): 0	Wetland Hydrology Present? Yes X No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspections	s), if available:				
		, , , , , , , , , , , , , , , , , , ,				
Remarks:						
ENG FORM 6116-5, JUL 2018						
Controlled Unclassified Infor	mation (CUI)	Great Plains - Version 2 (

U.S. Army Corps of Engineers Controlled Unclassified Information Defension WETLAND DETERMINATION DATA SHEET – Great Plains Region See ERDC/EL TR-10-1; 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: Falcon Ranchettes City/Co	ounty: El Paso Count	ty		Sampling Date:	2/1/24
Applicant/Owner: Meridian Storage LLC		State:	со	Sampling Point:	SP5
Investigator(s): Dan Maynard and Emily DeAlto Section,	, Township, Range:	S1, T1	3S, R65W		
Landform (hillside, terrace, etc.): Side of ditch Local relief	(concave, convex, no	ne): I	None	Slop	e (%): <u>11</u>
Subregion (LRR/MLRA): LRR G Lat: <u>38.946854</u>	Long:	-104.60	08171	Datum:	WGS84
Soil Map Unit Name: Columbine (Torriothenic Haplustolls)		l	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>X</u> No		(If no, exp	lain in Remarks.)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed?	Are "Normal Circum	stances	" present?	Yes <u>X</u> No)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic?	(If needed, explain a	any ansv	vers in Rema	arks.)	
SUMMARY OF FINDINGS – Attach site map showing sampli	ng point locatio	ns, tra	ansects, i	mportant featu	ıres, etc.

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

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test	workshee	et:		
1				Number of Domin	ant Specie	es That		
2				Are OBL, FACW,	or FAC:	_	0	(A)
3				Total Number of D	Dominant §	Species		
4				Across All Strata:		·	2	(B)
	:	=Total Cover		Percent of Domina	ant Specie	es That		
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW,	or FAC:	_	0.0%	(A/B)
1. Robinia neomexicana	40	Yes	UPL					
2.				Prevalence Index	« workshe	et:		
3.				Total % Cover of:		Multiply	v by:	
4.				OBL species	0	x 1 =	0	
5.				FACW species	0	x 2 =	0	
	40	=Total Cover		FAC species	2		6	_
Herb Stratum (Plot size: 5x5')				FACU species	20	x 4 =	80	_
1. Bromus inermis	80	Yes	UPL	UPL species	122	x 5 =	610	
2. Melilotus officinalis	10	No	FACU	Column Totals:	144	(A)	696	(B)
3. Cirsium arvense	10	No	FACU	Prevalence Index	= B/A =		4.83	
4. Potentilla gracilis	2	No	FAC					
5. Brassica rapa	2	No	UPL	Hydrophytic Veg	etation In	dicators:		
6.				1 - Rapid Tes	t for Hydro	ophytic Veg	getation	
7.				2 - Dominanc	e Test is >	>50%		
8.				3 - Prevalenc	e Index is	≤3.0 ¹		
9.				4 - Morpholog	gical Adapt	tations ¹ (Pr	ovide sup	porting
10				data in Rer	narks or o	n a separa	te sheet)	
	104	=Total Cover		Problematic H	-lydrophyti [,]	c Vegetatio	on ¹ (Expla	in)
Woody Vine Stratum (Plot size: 15x15')				¹ Indicators of hydr		-		,
1				present, unless di			, ,,	nusi be
2.				Hydrophytic				
		=Total Cover		Vegetation				
% Bare Ground in Herb Stratum 10				•	Yes	No	Х	
Remarks:								

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Sampling Po	int: SP5

Depth	Matrix			ox Featur	es		firm the absence of i			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-6	10YR 3/2	100					Loamy/Clayey		Sandy loam	
6-14	10YR 3/3	100					Sandy		Loamy sand	
14-24	2.5Y 5/4	100					Sandy		Loamy sand	
				·						
¹ Type: C=Co	oncentration, D=Deple	tion, RM=R	Reduced Matrix, CS	S=Covere	d or Coat	ted San	d Grains. ² Loca	ation: PL=Por	e Lining, M=M	atrix.
	ndicators: (Applicab							ators for Pro	-	-
Histosol	(A1)			Sandy G	leyed Ma	trix (S4))	I cm Muck (A9	9) (LRR I, J)	
Histic Ep	ipedon (A2)			Sandy R	edox (S5)	H	High Plains De	pressions (F1	6)
Black His	()			• • • •	Matrix (S	,		(LRR H out	tside of MLR	A 72 & 73)
	n Sulfide (A4)				lucky Mir	•	·	Reduced Verti	()	
	Layers (A5) (LRR F)			-	Bleyed Ma			Red Parent Ma	,	===>
	ck (A9) (LRR F, G, H)				l Matrix (I	,		/ery Shallow [F22)
·	Below Dark Surface (A11)		•	ark Surfa	` '		Other (Explain	ın Remarks)	
	irk Surface (A12) lucky Mineral (S1)			• •	l Dark Su epressio	``	.()			
	lucky Mineral (ST) lucky Peat or Peat (S2		н) —	•	ins Depre	• •	(F16) ³ Indir	ators of hydro	phytic veneta	tion and
	cky Peat or Peat (S3)				A 72 & 7		. ,	vetland hydrol		
	, (20)	. ,					•	unless disturbe		
Restrictive L	ayer (if observed):									
Туре:	N/A									
Depth (in	nches):						Hydric Soil Present	?	Yes	No <u>X</u>
Remarks:										
No indicators	present.									
HYDROLO	GY									
	drology Indicators:									
	ators (minimum of one	<u>e is r</u> equire	<u>d; chec</u> k all that an	oply)			Secondar	y Indicators (r	<u>ninim</u> um of tw	o required)
	Water (A1)		Salt Crust		-	_		ice Soil Crack		<i>*</i>
	ter Table (A2)		Aquatic In	. ,	es (B13)		Spar	sely Vegetated	d Concave Su	rface (B8)
Saturatio	on (A3)		Hydrogen	Sulfide C	dor (C1)		Drair	age Patterns	(B10)	
	arks (B1)		Dry-Seaso		``	,		zed Rhizosph	eres on Living	Roots (C3)
	t Deposits (B2)		Oxidized F			iving Ro	. , .	nere tilled)		
	osits (B3)		•	not tilled				fish Burrows (,	(.
	t or Crust (B4)		Presence		`	54)		ration Visible o	-	ery (C9)
·	osits (B5)		Thin Muck					norphic Positio		
	on Visible on Aerial Im tained Leaves (B9)	agery (B7)	Other (Exp	Jiain in Ri	emarks)			Neutral Test (-Heave Humn		
	× ,						F1050			
Field Observ		-	No Y	Donth /:	nchoc);					
Surface Wate Water Table	Present? Yes	s	No <u>X</u> No <u>X</u>		nches): nches):					
Saturation Pr		s <u> </u>	No X		nches):		Wetland Hydrolog	y Present?	Yes	No_X
(includes cap				. (<i>'</i> _			-		
•	corded Data (stream g	auge, mon	itoring well, aerial	photos, p	revious ir	nspectio	ns), if available:			
	_									
Remarks:										
	196°5,90UL 2018	•								
Controll	ed Unclassifie	d Infor	mation (CL	Щ					Great Plain	s – Version 2.

U.S. Army Corps of Engineers Controlled Unclassified Information Full WETLAND DETERMINATION DATA SHEET – Great Plains Region See ERDC/EL TR-10-1; 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: Falcon Ranchettes City/	County: El Paso Count	ty		Sampling Date:	2/1/24
Applicant/Owner: Meridian Storage LLC		State:	со	Sampling Point:	SP6
Investigator(s): Dan Maynard and Emily DeAlto Section	on, Township, Range:	<u>S1, T1</u>	3S, R65W		
Landform (hillside, terrace, etc.): Swale Local reli	ef (concave, convex, no	one):	Concave	Slop	be (%):4
Subregion (LRR/MLRA): LRR G Lat: <u>38.947211</u>	Long:	-104.6	08314	Datum:	WGS84
Soil Map Unit Name: Columbine (Torriothenic Haplustolls)			NWI classific	ation: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>X</u> No		(If no, exp	lain in Remarks.)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed?	Are "Normal Circum	stances	" present?	Yes <u>X</u> Ne	D
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic?	(If needed, explain a	any ansv	vers in Rema	arks.)	
SUMMARY OF FINDINGS – Attach site map showing samp	oling point locatio	ons, tra	ansects, i	mportant feat	ures, etc.

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

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test	workshee	et:		
1				Number of Domina		es That		
2				Are OBL, FACW,	or FAC:	_	0	(A)
3.				Total Number of D	ominant S	Species		
4.				Across All Strata:		_	2	(B)
		=Total Cover		Percent of Domina	ant Specie	s That		
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW,	or FAC:	_	0.0%	(A/B)
1. Robinia neomexicana	4	No	UPL					
2				Prevalence Index	workshe	et:		
3				Total % Cover of:		Multiply	y by:	
4				OBL species	0	x 1 =	0	
5.				FACW species	15	x 2 =	30	
	4	=Total Cover		FAC species	0	x 3 =	0	
Herb Stratum (Plot size: 5x5')				FACU species	5	x 4 =	20	
1. Bromus inermis	50	Yes	UPL	UPL species	88	x 5 =	440	
2. Juncus balticus	15	No	FACW	Column Totals:	108	(A)	490	(B)
3. Bouteloua gracilis	25	Yes	UPL	Prevalence Index	= B/A =		4.54	_
4. Koeleria macrantha	7	No	UPL					
5. Pascopyrum smithii	5	No	FACU	Hydrophytic Veg	etation In	dicators:		
6. Artemisia frigida	2	No	UPL	1 - Rapid Tes	t for Hydro	phytic Veg	etation	
7.				2 - Dominanc	e Test is >	·50%		
8.				3 - Prevalence	e Index is	≤3.0 ¹		
9.				4 - Morpholog	ical Adapt	ations ¹ (Pr	ovide sup	porting
10				data in Ren				. 0
	104	=Total Cover		Problematic H	lvdrophyti	c Vegetatio	n ¹ (Expla	in)
Woody Vine Stratum (Plot size: 15x15')						-		
1				¹ Indicators of hydr present, unless dis				nust de
2.						proproduction		
		=Total Cover		Hydrophytic				
% Bare Ground in Herb Stratum 15				Vegetation Present?	Yes	No	Х	
Remarks:								

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Sampling Point:	SP6
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inches)	0 1 1 1 1	0/	0 1 <i>i</i>		T 1	2	- ·			
	Color (moist)	%	Color (moist)) %	Type ¹	Loc ²	Texture		Remarks	
0-4	10YR 3/1	100					Loamy/Clayey	Sa	andy clay loam	
4-12	10YR 4/2	100					Loamy/Clayey	;	Sandy loam	
12-24	2.5Y 5/4	100					Sandy	l	Loamy sand	
ydric Soil In Histosol (/ Histic Epi Black Hist Hydrogen Stratified I 1 cm Muc	pedon (A2)	le to all LF		herwise not Sandy G Sandy R Stripped Loamy M Loamy O Depleted	ed.) ileyed Ma ledox (S5 Matrix (S Mucky Mir	atrix (S4) 5) 56) neral (F1) atrix (F2) F3)	Indic f f f	ators for Prob 1 cm Muck (A9) High Plains Dep (LRR H outs Reduced Vertic Red Parent Mate	oressions (F16) side of MLRA 72 (F18) erial (F21) ark Surface (F22)	
Sandy Mu 2.5 cm Mu 5 cm Muc	k Surface (A12) icky Mineral (S1) ucky Peat or Peat (S ky Peat or Peat (S3)		- H)	Redox D High Pla	epressio ins Depre	urface (F7 ons (F8) essions (F 73 of LRR	, ⊊16) ³ Indic ≿ H) v	wetland hydrolog	bhytic vegetation a gy must be prese d or problematic.	
Type: Depth (inc	ayer (if observed): N/A ches):						Hydric Soil Present		Yes N	o_>
Type: Depth (inc	N/A								Yes N	o <u>)</u>
Type: Depth (inc emarks: YDROLOC	N/A ches):								Yes N	o
Type: Depth (inc Remarks: YDROLOO	N/A	e is require	<u></u>	t apply)			Hydric Soil Present	?	Yes N	
Type: Depth (inc Remarks: YDROLOO Vetland Hydr Primary Indica Surface V High Wate Saturation Water Ma Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	N/A ches): GY rology Indicators: ators (minimum of on Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4)		Salt Cr Aquatio Hydrog Dry-Se Oxidize (whe Preser Thin M	t apply) ust (B11) c Invertebrati jen Sulfide C ason Water ed Rhizosphe i re not tilled ice of Reduc uck Surface Explain in R	Odor (C1) Table (C eres on L) ed Iron (((C7)	2) .iving Roo	Hydric Soil Present Secondar Surfa Spars Drair Oxidi ts (C3) (wi Crayi Satur Satur Geor FAC-	? ry Indicators (mi ace Soil Cracks sely Vegetated hage Patterns (E ized Rhizospher here tilled) fish Burrows (C- ration Visible on morphic Positior -Neutral Test (D	inimum of two rec (B6) Concave Surface 310) res on Living Roo 8) n Aerial Imagery ((n (D2)	<u>uirec</u> (B8) ss (C C9)

Controlled Unclassified Information Provineers WETLAND DETERMINATION DATA SHEET – Great Plains Region

See ERDC/EL TR-10-1; 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: Falcon Ranchettes Cit	y/County: El Paso County Sampling Date: 2/1/24	
Applicant/Owner: Meridian Storage LLC	State: CO Sampling Point: SP7	
Investigator(s): Dan Maynard and Emily DeAlto Sec	tion, Township, Range: <u>S1, T13S, R65W</u>	
Landform (hillside, terrace, etc.): Swale Local re	elief (concave, convex, none): <u>None</u> Slope (%): <u>4</u>	
Subregion (LRR/MLRA): LRR G Lat: <u>38.946620</u>	Long: -104.608069 Datum: WGS84	
Soil Map Unit Name: Columbine (Torriothenic Haplustolls)	NWI classification: R4SBC	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed	? Are "Normal Circumstances" present? Yes X No	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic	? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing san	pling point locations, transects, important features, etc.	

Remarks:

Swale between W1 and W2.

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30x30')	% Cover	Species?	Status	Dominance Test worksheet:	
1				Number of Dominant Species That	
2				Are OBL, FACW, or FAC: 0	(A)
3				Total Number of Dominant Species	
4				Across All Strata: 1	(B)
		=Total Cover		Percent of Dominant Species That	
Sapling/Shrub Stratum (Plot size: 15x15')				Are OBL, FACW, or FAC: 0.0%	(A/B)
1. Robinia neomexicana	3	No	UPL		
2. Rosa woodsii	1	No	FACU	Prevalence Index worksheet:	
3.				Total % Cover of: Multiply by:	
4				OBL species 0 x 1 = 0	
5.				FACW species 0 x 2 = 0	-
	4	=Total Cover		FAC species 3 x 3 = 9	-
Herb Stratum (Plot size: 5x5')				FACU species 2 x 4 = 8	-
1. Bromus inermis	99	Yes	UPL	UPL species 102 x 5 = 510	-
2. Cirsium arvense	1	No	FACU	Column Totals: 107 (A) 527	(B)
3. Rumex crispus	1	No	FAC	Prevalence Index = B/A = 4.93	-
4. Other forbs	2	No	FAC		•
5.				Hydrophytic Vegetation Indicators:	
6.				1 - Rapid Test for Hydrophytic Vegetation	
7.				2 - Dominance Test is >50%	
8.				3 - Prevalence Index is ≤3.0 ¹	
9.				4 - Morphological Adaptations ¹ (Provide supp	orting
10				data in Remarks or on a separate sheet)	U
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain	i)
Woody Vine Stratum (Plot size: 15x15')				¹ Indicators of hydric soil and wetland hydrology mi	
1				present, unless disturbed or problematic.	ust be
2.					
		=Total Cover		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0				Present? Yes No X	
Remarks:					

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Sampling	Point [.]	SP7
oumpring	i onit.	017

			Re	edox Featur	es						
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	e		Remarks	
0-6	10YR 3/2	100					Loamy/Cl	ayey		Sandy loam	
6-14	10YR 4/3	100					Loamy/Cl	ayey		Sandy loam	
14-24	2.5Y 5/4	100					Sand	у		Loamy sand	
	ncentration, D=Depletion	on RM=R	educed Matrix		d or Coa	ted Sand	Grains	² Locati	on: PI =Por	e Lining, M=M	atrix
	dicators: (Applicable									blematic Hyd	_
Histosol (A1)		·	Sandy G	, Bleyed Ma	atrix (S4)				9) (LRR I, J)	
Histic Epi	pedon (A2)			Sandy R	edox (St	5)		Hi	gh Plains De	epressions (F1	6)
Black His	tic (A3)		_	Stripped	Matrix (S	S6)			(LRR H ou	tside of MLR/	A 72 & 73)
Hydrogen	sulfide (A4)		_	Loamy N	/lucky Mi	neral (F1))	Re	duced Verti	c (F18)	
	Layers (A5) (LRR F)		_		-	atrix (F2)				aterial (F21)	
	k (A9) (LRR F, G, H)		_						-	Dark Surface (F22)
	Below Dark Surface (A	411)	_	Redox D		ace (F6) urface (F7	7)	Ot	her (Explain	in Remarks)	
	k Surface (A12) ucky Mineral (S1)		_	Depleted Redox D		``	()				
	ucky Peat or Peat (S2)	LRR G.	н) —		•	essions (F16)	³ Indica	tors of hydro	ophytic vegeta	tion and
	ky Peat or Peat (S3) (_		73 of LRF				ogy must be p	
	, , , , , , , , , , , , , , , , , , ,			•			,		-	ed or problema	
Restrictive La	ayer (if observed):										
	N1/A										
Туре:	N/A										
Depth (ind	ches):		_				Hydric Soil	Present?		Yes	No <u>X</u>
Depth (ind	ches):		_				Hydric Soil	Present?		Yes	No <u>X</u>
Depth (ind emarks: lo indicators	ches):						Hydric Soil	Present?		Yes	No <u>X</u>
Depth (indicators	ches):						Hydric Soil	Present?		Yes	No <u>X</u>
Depth (ind Remarks: Io indicators YDROLOO Vetland Hydr Primary Indica	ches): present. GY rology Indicators: ators (minimum of one	is required						Secondary		ninimum of tw	
Depth (indicators o indicators YDROLOC /etland Hydr rimary Indica Surface V	ches): present. GY rology Indicators: ators (minimum of one Vater (A1)	is required	Salt Cru	ust (B11)				Secondary	e Soil Crack	ninimum of tw s (B6)	o required
Depth (indicators o indicators YDROLOO /etland Hydr rimary Indica Surface V High Wat	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2)	is required	Salt Cru Aquatic	ust (B11) Invertebrat				Secondary Surfac Sparse	e Soil Crack ly Vegetate	minimum of tw s (B6) d Concave Su	o required
Depth (indicators lo indicators YDROLOO Vetland Hydri rimary Indica Surface V High Wate Saturation	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3)	is required	Salt Cru Aquatic Hydrog	ust (B11) Invertebrat en Sulfide C	dor (C1))		Secondary Surfac Sparse Draina	e Soil Crack Iy Vegetate ge Patterns	<u>minimum of tw</u> s (B6) d Concave Su (B10)	o required
Depth (indicators to indicators YDROLOO Vetland Hydr Primary Indicators Surface V High Wate Saturation Water Ma	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1)	is required	Salt Cru Aquatic Hydrog Dry-Sea	ust (B11) Invertebrat en Sulfide C ason Water	dor (C1) Table (C	2)	\$	Secondary Surfac Sparse Draina Oxidize	e Soil Crack Iy Vegetate ge Patterns ed Rhizosph	minimum of tw s (B6) d Concave Su	o required
Depth (indicators lo indicators YDROLOO Vetland Hydr rimary Indica Surface V High Wate Saturation Water Ma Sediment	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2)	is required	Salt Cru Aquatic Hydrog Dry-Sea Oxidize	ust (B11) Invertebrate en Sulfide C ason Water d Rhizosphe)dor (C1) Table (C eres on L	2)	\$	Secondary Surfac Sparse Draina Oxidize (whe	e Soil Crack ly Vegetate ge Patterns ed Rhizosph re tilled)	<u>minimum of tw</u> s (B6) d Concave Su (B10) eres on Living	o required
Depth (indicators Primary Indicators Primary Indicators Surface V High Water Saturation Water Mater Sediment Drift Depo	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2)	is required	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when	ust (B11) Invertebrat en Sulfide C ason Water	Odor (C1) Table (C eres on L I)	2) .iving Roo	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis	e Soil Crack ly Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (<u>minimum of tw</u> s (B6) d Concave Su (B10) eres on Living	<u>o required</u> fface (B8) Roots (C3
Depth (ind Remarks: No indicators YDROLOO Vetland Hydr Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4)	is required	Aquatic Aquatic Ury-Sea Oxidize (when Presen	ust (B11) Invertebrate en Sulfide C ason Water d Rhizosphe re not tilled	Odor (C1) Table (C eres on L) ed Iron (2) .iving Roo	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura	e Soil Crack ly Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag	<u>o required)</u> fface (B8) Roots (C3
Depth (indicators io indicators YDROLOO /etland Hydr rimary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4)		Salt Cru Aquatic Hydrog Dry-Sea Oxidize Oxidize Presen Thin Mu	ust (B11) Invertebrate en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc	Odor (C1) Table (C eres on L) ed Iron ((C7)	2) .iving Roo	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura Geomo	e Soil Crack ly Vegetate ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o	minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2)	<u>o required</u> fface (B8) Roots (C3
Depth (ind temarks: lo indicators YDROLOO Vetland Hydr rimary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5)		Salt Cru Aquatic Hydrog Dry-Sea Oxidize Oxidize Presen Thin Mu	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface	Odor (C1) Table (C eres on L) ed Iron ((C7)	2) .iving Roo	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura Geomo FAC-N	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2)	o required rface (B8) Roots (C3 ery (C9)
Depth (ind Remarks: Io indicators YDROLOO Vetland Hydr Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9)		Salt Cru Aquatic Hydrog Dry-Sea Oxidize Oxidize Presen Thin Mu	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface	Odor (C1) Table (C eres on L) ed Iron ((C7)	2) .iving Roo	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura Geomo FAC-N	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5)	o required rface (B8) Roots (C3 ery (C9)
Depth (indicators Permarks: Io indicators PUROLOO Vetland Hydr Primary Indicators Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Surface Wate	ches): present. GY rology Indicators: ators (minimum of one. Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9) ations: r Present? Yes	gery (B7)	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when Presen Thin Mu Other (I	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface Explain in R Depth (i	odor (C1) Table (C eres on L) ed Iron ((C7) emarks)	2) .iving Roc C4)	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura Geomo FAC-N	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5)	o required rface (B8) Roots (C3 ery (C9)
Depth (ind Remarks: Io indicators YDROLOO Vetland Hydr Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Surface Wate Vater Table F	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9) ations: r Present? Yes Present? Yes	gery (B7)	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when Presen Thin Mu Other (I NoX	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface Explain in R Depth (i Depth (i	odor (C1) Table (C eres on L) ed Iron ((C7) emarks) inches): inches):	2) .iving Roc C4)		Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura Geomo FAC-N Frost-h	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (leave Humr	minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5) nocks (D7) (L I	<u>o required)</u> rface (B8) Roots (C3 ery (C9) RR F)
Depth (indicators Remarks: Io indicators YDROLOO Vetland Hydr Primary Indicators Surface V High Water Saturation Water Mater Sediment Drift Depo Algal Mater Iron Depo Inundation Water-Stater Surface Water Vater Table F Saturation Press	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9) ations: r Present? Yes present? Yes	gery (B7)	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when Presen Thin Mu Other (I	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface Explain in R Depth (i Depth (i	odor (C1) Table (C eres on L) ed Iron ((C7) emarks)	2) .iving Roc C4)	\$	Secondary Surfac Sparse Draina Oxidize (whe Crayfis Satura Geomo FAC-N Frost-h	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (leave Humr	minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5)	o required rface (B8) Roots (C3 ery (C9) RR F)
Depth (ind Remarks: No indicators Vetland Hydr Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Surface Wate Vater Table F Saturation Pre includes capi	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9) ations: r Present? Yes Present? Yes llary fringe)	gery (B7)	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when Presen Thin Mu Other (I NoX NoX NoX	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface Explain in R Depth (i Depth (i	odor (C1) Table (C eres on L) ed Iron ((C7) emarks) inches): inches):	2) .iving Roc C4)	5	Secondary Surfac Sparse Draina Oxidize Crayfis Satura Geomo FAC-N Frost-F	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (leave Humr	minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5) nocks (D7) (L I	<u>o required)</u> rface (B8) Roots (C3 ery (C9) RR F)
Depth (ind Remarks: No indicators Vetland Hydr Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Surface Wate Vater Table F Saturation Pre includes capi	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9) ations: r Present? Yes present? Yes	gery (B7)	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when Presen Thin Mu Other (I NoX NoX NoX	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface Explain in R Depth (i Depth (i	odor (C1) Table (C eres on L) ed Iron ((C7) emarks) inches): inches):	2) .iving Roc C4)	5	Secondary Surfac Sparse Draina Oxidize Crayfis Satura Geomo FAC-N Frost-F	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (leave Humr	minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5) nocks (D7) (L I	o required) rface (B8) Roots (C3 ery (C9)
Depth (indicators Primary Indicators Primary Indicators Vetland Hyde Primary Indicators Vetland Hyde Surface V High Water Saturation Water Mater Drift Depo Algal Mater Iron Depoc Inundation Water-Stator Surface Water Vater Table F Saturation Pre- Saturation Pre- Saturation Pre- Saturation Pre-	ches): present. GY rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) n Visible on Aerial Ima ained Leaves (B9) ations: r Present? Yes Present? Yes llary fringe)	gery (B7)	Salt Cru Aquatic Hydrog Dry-Sea Oxidize (when Presen Thin Mu Other (I NoX NoX NoX	ust (B11) Invertebrati en Sulfide C ason Water d Rhizosphe re not tilled ce of Reduc uck Surface Explain in R Depth (i Depth (i	odor (C1) Table (C eres on L) ed Iron ((C7) emarks) inches): inches):	2) .iving Roc C4)	5	Secondary Surfac Sparse Draina Oxidize Crayfis Satura Geomo FAC-N Frost-F	e Soil Crack Jy Vegetated ge Patterns ed Rhizosph re tilled) h Burrows (tion Visible o orphic Positi eutral Test (leave Humr	minimum of tw s (B6) d Concave Su (B10) eres on Living C8) on Aerial Imag on (D2) (D5) nocks (D7) (L I	<u>o required)</u> rface (B8) Roots (C3 ery (C9) RR F)



Wetland Delineation Report Falcon Ranchettes Fil. No. 1A El Paso County, Colorado

Appendices

APPENDIX D:

OHWM DELINEATION DATASHEETS

Bristlecone Ecology, LLC | Denver, CO 80211 | 971.237.3906

	Corps of Engineers (L					
RAPID ORDINARY HIGH WATER MA	Corps of Engineers (U ARK (OHWM) FIFI D	,	DATA SHEET	OMB Control No. 0710-XXXX		
	cy is Headquarters USACE			Approval Expires:		
Project ID #: Sit	e Name: Falcon Ranchet	tes Fil. No. 1A	Date and Ti	me: 02/01/2024 2:30pm		
Location (lat/long): 104.6079798°W 38.94644	Investigator(s): Dan M	laynard and Emil	y DeAlto			
			Describe land use and flow conditions from online resources.			
gage data LiDAR	geologic maps	-		ents (floods or drought)? 1rred recently. The ditch		
	land use maps			was constructed and		
	storm runof					
aerial photos topographic maps	Other: <u>NWI & NHI</u>	Under Owl P	lace, south of the	e site.		
Step 2 Site conditions during field assessment First look for changes in channel shape, distribution. Make note of natural or mar rockfalls etc. Within a constructed ditch, there is a gentle slope	-made disturbances that w	ould affect flow and chai	nnel form, such as l	oridges, riprap, landslides,		
a higher content of gravel and sand at the base of break on both sides, at which vegetation transition	-	-	-			
Step 3 Check the boxes next to the indicators OHWM is at a transition point, therefor OHWM. From the drop-down menu next `x', or just above `a' the OHWM. OHWM. Go to page 2 to describe overall	e some indicators that are to to each indicator, select the	used to determine location e appropriate location of	the indicator by sel	ecting either just below `b', at		
Geomorphic indicators	Sediment indicators		Ancillary indica	tors		
Break in slope: b	Soil developmen	 t:	Wracking organic li	/presence of X		
on the bank: a	Changes in chara	acter of soil: b		of large wood:		
undercut bank:	Mudcracks:			disturbed or		
valley bottom: b	Changes in partic	b	washed a	•		
Other:	transition from	sand to gravelly	Weathere	d clasts or bedrock:		
Shelving:	upper limit of s	and-sized particles	Other observed	indicators?		
shelf at top of bank:	silt deposits:		Describe:			
natural levee:	Vegetation Indicators			een installed and		
man-made berms or levees:	Change in vegetat and/or density:	lion type a	erosion cont the ditch bot	rol netting is present in		
other berms:	Check the appropr	iate boxes and select	the ditch bot	lom.		
Channel bar:	the general vegeta graminoids to woo	tion change <i>(e.g.,</i> dy shrubs). Describe				
shelving (berms) on bar:	the vegetation tra the middle of the	nsition looking from channel, up the				
unvegetated:	banks, and into th	he floodplain.				
(go to veg. indicators) sediment transition	vegetation absent to: gr moss to:	raminoids	Step 4 Is addition support this dete	nal information needed to rmination?		
(go to sed. indicators) upper limit of deposition	forbs to:		Yes	No		
on bar:		Y waa day sharaha	If yes, describe to datasheet:	and attach information		
bedload transport evidence:	woody	o woody shrubs				
deposition bedload indicators (e.g., imbricated clasts, b	shrubs to:					
gravel sheets, etc.) bedforms (e.g., poofs,	trees to:					
riffles, steps, etc.):	coniferous trees to:					
(e.g., obstacle marks, scour, smoothing, etc.)	Vegetation matter and/or bent:	d down				
Secondary channels:	Exposed roots be intact soil layer:	low				

The combine where the sate which the co OHWM, the	rationale for location of OHWM ation of indicators present convey the presence of an OHWM at this sample point within the ditch ample point was taken. The OHWM is present up until a prominent headcut within the ditch, after onditions within the ditch change and indicators of an OHWM are no longer present. Within the ere are two changes in slope, a deposition of gravel and sand along the base of the ditch, absence of long the base of the ditch, and a transition to graminoid and woody vegetation along the top of ditch.
Additional obse	ervations or notes
Attach a photo lo	og of the site. Use the table below, or attach separately.
-	log attached? Xes No If no, explain why not:
	hs and include descriptions in the table below.
-	graphs in the order that they are taken. Attach photographs and include annotations of features.
	T
Photo Number	Photograph description
	see photographic log

Project ID #: Site Name: Falcon Ranchettes Filing No. 1A Date and Time: 02/01/2024 2:00 Location (lationg): 104.6080344'W 38:9466039°N Investigator(s): DJM + ESD Site or form remote and online resources Describe land use and flow conditions from online resources Check boxes for online resources Describe land use and flow conditions from online resources Check boxes for online resources Describe land use and flow conditions floods or drought Material status geologic maps Image detail photes boographic maps Other: Describe land use and flow conditions flow of the site. Site 2 Site conditions during field assessment First look for changes in channel shape. depositional and erosional features, and changes in vegetation and sediment type, size. den distribution. Make note of natural or man-made distrubances that would affect flow and channel form, such as bridges, ripra, landsit rockfalls etc. Located in an upland swale between the two wetlands identified in the wetland delineation. Vegetation is almost monotry does not change throughout the swale. There is a very slight break in slope at the toe of the slope. There is a utility pole j of this sample point. OHWM. From the drop-down menu mext to each indicator, select the appropriate location of the Motion the edot-down menu mext to each indicator select the appropriate location of solution allows and select the owner and radio density. OHWM. Go to page 2 to describe overall rationale for location of OHWM.	RAPID ORDINARY HIGH WATER M		IDENTIFICATION [DATA SHEET	OMB Control No. 0710-XXXX Approval Expires:		
Location (lattlong): 104.6080344°W 38.9466039°N Investigator(s): DJM + ESD Step 1 Site overview from remote and online resources Describe land use and flow conditions from online resources Check boxes for online resources used to evaluate site: Describe land use and flow conditions from online resources Ginnatic data	The proponent agency is Headquarters USACE CECW-CO-R. Project ID #: Site Name: Falcon Ranchettes Filing No. 1A Date and Time: 02/01/2024 2:00pm						
Check boxes for online resources used to evaluate site: Wree there any recent extreme events (the dock or drough) is a gage data					1		
First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, den distribution. Make note of natural or man-made disturbances that would affect flow and channel form, such as bridges, riprap, landsike rockfalls etc. Located in an upland swale between the two wetlands identified in the wetland delineation. Vegetation is almost monotry does not change throughout the swale. There is a very slight break in slope at the toe of the slope. There is a utility pole j of this sample point. Step 3 Check the boxes next to the indicators used to identify the location of the OHWM. From the drop-down mean next to each indicator, select the appropriate location of the indicator by selecting either just below "X, or just above "a' the OHWM. OHWM. Go to page 2 to describe overall rationale for location of OHWM, write any additional observations, and to attach a photo log. Geomorphic indicators Sediment indicators Ancillary indicators Ancillary indicators Geomorphic indicators Sediment indicators An the bank: a Mudcracks: undercut bank: Changes in particle-sized distribution: valley bottom: Ishibution: other shelf at top of bank: natural levee: Change in vegetation fram; loo bors; man-made berms or levees: Change in vegetation transition looking from the middle of the channel, up the banks, and into the floooplain. wegetation transiti	Check boxes for online resources used to ev	aluate site: geologic maps land use maps	Were there any No extreme even of the site was co the culvert under site is down grad	Describe land use and flow conditions from online resources. Were there any recent extreme events (floods or drought)? No extreme events have occured recently. The ditch on the eastern side of the site was constructed and hydrology flows through this ditch to the culvert under Owl Place, south of the site. The culvert north of the site is down gradient from the southern half of the site, and thus does			
Break in slope: Soil development: Wracking/presence of organic litter: on the bank: a Changes in character of soil: Presence of large wood: undercut bank: Mudcracks: Presence of large wood: valley bottom: Changes in particle-sized distribution: Water disturbed or washed away: valley bottom: Changes in particle-sized distribution: Water staining: Other: transition fromto Weathered clasts or bedrock: Shelving: upper limit of sand-sized particles Other observed indicators? natural levee: Vegetation Indicators Describe: change laway: Change in vegetation transition looking from the middle of the channel, up the banks, and into the floodplain. Describe: vegetation wegetation absent to: moss to: graminoids to: forbs to: Yes No Upper limit of deposition on bar: forbs to: If yes, describe and attach information	 First look for changes in channel shape, depositional and erosional features, and changes in vegetation and sediment type, size, density, and distribution. Make note of natural or man-made disturbances that would affect flow and channel form, such as bridges, riprap, landslides, rockfalls etc. Located in an upland swale between the two wetlands identified in the wetland delineation. Vegetation is almost monotypic and does not change throughout the swale. There is a very slight break in slope at the toe of the slope. There is a utility pole just north of this sample point. Step 3 Check the boxes next to the indicators used to identify the location of the OHWM. OHWM is at a transition point, therefore some indicators that are used to determine location may be just below and above the OHWM. From the drop-down menu next to each indicator, select the appropriate location of the indicator by selecting either just below `b', at `x', or just above `a' the OHWM. 						
Soli development: organic litter: organic litter: organic litter: organic litter: organic litter: organic litter: Presence of large wood: undercut bank: Mudcracks: valley bottom: Changes in particle-sized distribution: Water staining: Other: transition fromto_ Shelving: upper limit of sand-sized particles shelf at top of bank: silt deposits: other change in vegetation transition other change in vegetation transition other graminoids to woody shrubs). Describe the vegetation transition vegetation (go to veg. indicators) moss to: upper limit of deposition forbs to: upper limit of deposition forbs to:							
(go to veg. indicators) absent to: step 4 is additional information needed (go to veg. indicators) moss to: upper limit of deposition yes (go to sed. indicators) forbs to: yes No Instream bedforms and other graminoids to: if yes, describe and attach information to datasheet:	 on the bank: a undercut bank: valley bottom: Other: Shelving: shelf at top of bank: natural levee: man-made berms or levees: other berms: Channel bar: shelving (berms) on bar: unvegetated: 	Changes in chara	acter of soil: cle-sized toto sand-sized particles tion type tiate boxes and select ation change (e.g., ridy shrubs). Describe ansition looking from channel, up the	organic li Presence Leaf litter washed a Water sta Weathere Other observed Describe:	tter: of large wood: disturbed or way: ining: d clasts or bedrock: indicators?		
bedload transport evidence: woody deposition bedload indicators woody (e.g., imbricated clasts, checked clasts, gravel sheets, etc.) deciduous bedforms (e.g., poofs, coniferous riffles, steps, etc.): coniferous erosional bedload indicators coniferous (e.g., obstacle marks, scour, vegetation matted down smoothing, etc.) Exposed roots below intact soil layer: intact soil layer:	(go to veg. indicators) sediment transition (go to sed. indicators) upper limit of deposition on bar: Instream bedforms and other bedload transport evidence: deposition bedload indicators (e.g., imbricated clasts, gravel sheets, etc.) bedforms (e.g., poofs, riffles, steps, etc.): erosional bedload indicators (e.g., obstacle marks, scour, smoothing, etc.)	absent to: moss to: forbs to: graminoids to graminoids to woody shrubs to: deciduous trees to: coniferous trees to: Vegetation matte and/or bent: Exposed roots be	d down	support this dete Yes If yes, describe	rmination?		

Project ID #:				
Step 5 Describe	rationale for location of OHWM			
	present at this sample point.			
	here and and cambre being			
Additional obse	ervations or notes			
Attach a photo lo	og of the site. Use the table below, or attach separately.			
	log attached? Xes No If no, explain why not:			
List photograp	hs and include descriptions in the table below.			
Number photo	graphs in the order that they are taken. Attach photographs and include annotations of features.			
Photo				
Number	Photograph description			