

# **APPENDIX H**

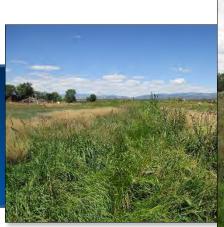
# Durango-La Plata County Airport

# Wetland and Waters of the U.S. Preliminary Jurisdictional Delineation Report

# **Prepared for:**

Jviation, Inc. 900 South Broadway, Suite 350 Denver, CO 30326

October 2014









Durango, CO Cortez, CO Pagosa Springs, CO Santa Fe, NM Farmington, NM

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# **ACRONYMS AND ABBREVIATIONS**

Ecosphere Environmental Services, Inc.

GIS Geographic Information System

NRCS Natural Resource Conservation Service

NWI National Wetland Inventory
OHWM Ordinary High Water Mark
USACE U. S. Army Corps of Engineers
USDA U.S. Department of Agriculture

USGS U.S. Geologic Survey

WDDF Wetland Determination Data Form WRCC Western Regional Climate Center

WUS waters of the U.S.

# 1. Introduction

# 1.1 Project Description

Ecosphere Environmental Services, Inc. (Ecosphere) was contracted by Jviation, Inc. to determine the presence of wetlands and other jurisdictional waters of the U.S. (WUS) located on property owned by the city of Durango, where the Durango-La Plata County Airport resides. Ecosphere delineated wetlands in the survey area and mapped wetlands and other (WUS using the National Wetland Inventory (NWI) mapping standards. All work was done to support planning efforts for the Durango - La Plata County Airport Master Plan. Future development at the airport may include relocation of the terminal or expansion of the existing terminal and expansion of other facilities, though exact locations are not currently known.

# 1.2 Scope of Services

The scope of work for the wetland delineations includes the following:

 Review existing Geographic Information System (GIS) data, including the National Hydrologic

Dataset, NWI, and U.S. Geological Survey (USGS) soil data that identifies hydric soils

- Conduct pedestrian field surveys to delineate wetlands and WUS
- Verify and modify (as needed) the existing NWI mapping within the survey area
- Prepare a Wetland Delineation Report suitable for submittal to the U.S. Army Corps of Engineers

(USACE)

#### 1.3 Site Location

The airport is situated in the foothills of the San Juan Mountains in southwestern Colorado, approximately 14 miles southeast of the City of Durango (Figure 1, Appendix A). The airport is located in La Plata County on the Loma Linda, Colorado, 7.5-minute United States Geological Survey quadrangle. About 35 percent of the survey area is improved or paved as part of the runway and airport infrastructure. The airport is accessed via Colorado 172 and Airport Road.

The survey area is defined as the Durango – La Plata County Airport boundary comprising about 1,258 acres (Figure 2). The airport boundary is the survey area for this wetland delineation report. The mesa top is the portion of the property that includes the footprint of the airport proper, but the property boundary extends down to the Florida River to the west and to highway 172 to the north. The legal coordinates for the airport are as follows:

Sections 20, 29, 30, 31, 32 Township 34 North, Range 8 West Section 6, Township 33 North, Range 8 West Section 1, Township 33 North, Range 9 West

# New Mexico Principal Meridian La Plata County, Colorado

## 2. EXISTING CONDITIONS

# 2.1 Vegetation Conditions

According to SWReGAP (Southwest Regional Gap Analysis Project), the primary vegetation community in the survey area is mapped as agriculture both on the mesa top and in the Florida River valley. Although current uses at the airport are private, commercial, and industrial, the historical land use was agriculture. Agriculture, especially ranching, continues to dominate the surrounding area. The second most prominent vegetation community mapped is Colorado Plateau piñon-juniper (*Pinus edulis-juniperus scopulorom*) woodlands, covering the slopes leading up to the mesa and the slope across the Florida River above the valley floor. Other vegetation types include Inter-Mountain Basin big sagebrush (*Artemisia tridentata*) shrublands interspersed within the piñon—juniper woodlands and Inter-Mountain Basin semi-desert shrub steppe. The airport facilities and buildings occur in an area mapped as Inter-Mountain Basin greasewood flats, yet none of that habitat remains.

Eight Colorado-listed and La Plata County-listed noxious<sup>1</sup> and enforceable weed species were observed throughout the survey area. Enforceable Colorado List B species observed in the survey area include: bull thistle (*Cirsium vulgare*), Canada thistle (*Cirsium arvense*), houndstongue (*Cynoglossum officinale*), musk thistle (*Carduus nutans*), oxeye daisy (*Chrysanthemum leucanthemum*), Russian knapweed (*Acroptilon repens*), salt cedar (*Tamarix sp.*), and scotch thistle (*Onopordum acanthium*).

A list of plants observed during field work in the survey area is provided in Appendix B.

### 2.2 Soils

The surface geology of the project area includes the Nacimiento Formation, Gravels and Alluviums (Pinedale and Bull Lake Age), and San Jose Formation. About 5 to 10 percent cryptobiotic soils were observed in the piñon-juniper woodlands. Slopes within the survey area range from 0 to 20 degrees. A northwestern aspect occurs on the west side of the mesa and a southeastern aspect occurs on the eastern side of the mesa.

Based on the Soil Survey of La Plata County, Colorado, there are seven soil-mapping units present in the survey area as shown in Table 1 (NRCS<sup>2</sup> 2014). Three soil types—Falfa clay loam, Tefton loam, and Arboles clay—are partially hydric. Wetlands were observed predominantly in the Falfa clay loam soil type.

<sup>&</sup>lt;sup>1</sup> Noxious weeds are non-native plants that disrupt native vegetation and ecosystems.

<sup>&</sup>lt;sup>2</sup> NRCS = Natural Resource Conservation Service

Table 1. USDA Soil Types in the Project Area

Soil Type	Description and Slope	Erosion Hazard
Falfa clay loam	Well drained, prime farmland if irrigated, not hydric, 1 to 3 percent slopes	Slight
Falfa clay loam	Well drained, partially hydric, 3 to 8 percent slopes	Moderate
Tefton loam	Somewhat poorly drained, partially hydric, prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season	Slight
Ustic Torriorthents- Ustollic	Well drained, not hydric, 12 to 60 percent slopes	Severe
Arboles clay	Well drained, partially hydric, 3 to 12 percent slopes	Moderate
Zyme-Rock outcrop complex	Well drained, not hydric, 12 to 65 percent slopes	Severe
Bodot clay	Well drained, not hydric, 3 to 10 percent slopes	Moderate

Source: NRCS, US Department of Agriculture (USDA) 2014

# 2.3 Hydrology

The airport is located on a plateau above the Florida River with an elevation range of 6,450 to 6,690 feet above mean sea level. The south-flowing Florida River, a tributary of the Animas River, is located about three-tenths of a mile west of the runway facility and is the predominant water feature within the airport vicinity. Salt Creek, an intermittent tributary of the Florida River, is located approximately on-half mile east of the airport. The Animas River is located approximately 6.5 miles west of the airport.

The project area is located in an arid landscape; annual precipitation at the airport is 12.6 inches per year (WRCC³ 2014). The survey area includes lands that support agriculture and animal husbandry, particularly in the Florida River valley, and includes fallow agricultural lands in the northeastern corner. One active irrigation ditch located in the northeastern survey area conveys irrigation water across the airport property to support agricultural practices downstream. Pastures irrigated by center pivot and flood irrigation are located directly west and north of the northeastern survey area. These lands are up gradient and drain onto the fallow agricultural lands of the survey area. Many abandoned sub-lateral irrigation ditches in the northeastern survey area capture irrigation return flows from neighboring pastures and

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<sup>&</sup>lt;sup>3</sup> WRCC = Western Regional Climate Center

distribute water throughout. Irrigation in the region returns water to local streams and plays a significant role in supporting wetland hydrology in the survey area.

Irrigation return flows and surface drainage flow west into the Florida River and east into Salt Creek, depending on the side of the mesa. Salt Creek is tributary to the Florida River; the confluence is approximately one mile downstream of the proposed survey area. The Florida River is a perennial stream located within the San Juan Watershed (HUC 14080104).

# 3. METHODOLOGY

Wetlands in the project area were mapped on August 26, 27, and September 4 and 25, 2014, using the methodologies defined below.

#### 3.1 Wetlands and Waters of the U.S.

Due to the large survey area and significant influence to the landscape from irrigation practices, and because available NWI mapping of the area was erroneous, two delineation methodologies were applied to delineate potentially jurisdictional wetlands and WUS in the airport planning area. The initial screening method consisted of review of 6-inch resolution color infrared aerial imagery from 2012 applying NWI Classification standards (Cowardin, et. al. 1979). In addition to mapping the boundaries of existing (accurate) NWI polygons, this approach served to calibrate and re-delineate apparent wetland areas according to NWI Classification standards. Approximately 57 acres of potentially jurisdictional wetlands were delineated and mapped in the survey area. The NWI classification is used by the U.S. Fish & Wildlife Services to inventory wetlands and deepwater habitats of the United States and may be used as a guide to inform development planning within the survey area. This wetland mapping approach is in conformance with Part IV, Section D, Subsection 3 of the Wetlands Delineation Manual (USACE 1987) for routine preliminary jurisdictional determinations of wetland complexes greater than 5 acres in size.

Once this initial delineation and mapping was completed, approximately 20 acres of the potentially jurisdictional 57 acres of wetlands were delineated using the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (USACE 2008a) and the Wetlands Delineation Manual. The delineation of this 20 acre subset using the referenced manuals was intended to validate the delineation boundaries mapped according to the NWI classification method. This amount of acreage represents a significant proportion of the total potential jurisdictional wetlands in the study area and is an appropriate validation methodology as defined by Part IV, Section D, Subsection 3 of the Wetlands Delineation Manual. Under the delineation procedures in these manuals, an area must exhibit characteristic wetland hydrology, hydric soils, and hydrophytic vegetation to be considered a wetland. Any area that appeared to display these characteristics was investigated using an approved USACE Arid West Wetland Determination Form. The delineation of these approximately 20 acres of wetlands were flagged in the field using pin flags and flagging tape to facilitate USACE field verification, and serves to validate wetland areas mapped by Ecosphere according to the NWI classification standards. The flag

locations and all mapped wetland boundaries may be relocated using a sub-meter Trimble GeoXT® global positioning system unit.

Results of the wetland survey (including wetland boundaries, flag points, photo points, and soil pits) are shown on detailed maps in Appendix A, Figures 3-9. Any plant species observed and hydric plant status may be found on the forms included in Appendix B. Completed determination forms are included in Appendix C; representative photographs are included in Appendix D.

Ordinary High Water Mark (OHWM) evaluations were prepared in accordance with the methodology identified in the USACE Field Guide to the Identification of OHWM (USACE 2008b). The National Hydrography Dataset, a general surface water database that contains features such as lakes, ponds, streams, rivers, canals, dams and stream gauges, was referenced prior to conducting the project fieldwork (USGS 2008).

This report provides the Minimum Standards for Acceptance of Preliminary Wetlands Delineations (USACE 2001). It should be noted that the methods applied to delineate study area wetlands and WUS represents a very conservative estimate of jurisdictional areas present in the planning area.

# 3.1.1 Hydrophytic Vegetation

The USACE Manual defines hydrophytic vegetation as "the community of macrophytes that occurs in areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to exert a controlling influence on the plant species present" (USACE 2008a). Hydrophytic vegetation decisions are based primarily on the wetland indicator status, as defined by the USACE National Hydric Plant List (Lichvar 2013). Wetland indicator status ratings include obligate (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), upland (UPL), no indicator (NI), and not listed (NL). Scientific nomenclature of all plant species follows that of the PLANTS database (USDA 2012).

The locations of sampling points were selected to capture the primary vegetation communities of the wetland and adjacent upland areas. Points were sometimes located near each other to highlight the transition from wetland to upland. At each sample plot, trees and shrubs within a 25-foot radius and graminoids and forbs within a 5-foot radius were identified and recorded on the wetland determination form. The Dominance Test is the basic hydrophytic vegetation indicator that was applied to every point sampled. The Dominance Test identifies the most abundant species in the community and uses a repeatable and objective procedure for selecting dominant plant species. The Prevalence Index was calculated if the Dominance Test failed. The Prevalence Index takes into consideration the percent cover of all plants identified at the sampling point.

#### 3.1.2 Hydric Soils

The National Technical Committee for Hydric Soils defines a hydric soil as "a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (USACE 1987). Most hydric soils exhibit characteristic

morphologies that result from repeated periods of saturation or inundation for more than a few days. Saturation or inundation combined with microbial activity in the soil causes the depletion of oxygen. These processes are evident in the field and can include high organic contents, gley formations, development of redoximorphic features, and other hydric indicators as outlined in the Arid West Supplement (USACE 2008a).

Soil samples were obtained at each data point by digging a pit to a depth of sufficient depth to determine hydric characteristics. Soil samples were then examined for soil texture and hydric soil indicators. Soil colors were evaluated using a Munsell® soil color chart (Gretag/Macbeth 2000).

# 3.1.3 Wetland Hydrology

Hydrophytic vegetation and hydric soil indicators typically represent a site's medium- to long-term history. Wetland hydrology indicators provide evidence that the "site has a continuing wetland hydrologic regime and that hydric soils and hydrophytic vegetation are not relics of a past hydrologic regime" (USACE 2008a). Hydrology indicators are the most inconsistent of wetland indicators, especially in the arid west where extended dry seasons are common and precipitation within a year has extreme temporal and spatial variability.

Assessment of the hydrologic criterion was based on primary and secondary indicators, as described in the Arid West Supplement (USACE 2008a). Primary indicators include observation of surface water or saturation, as well as evidence of recent inundation (e.g., oxidized rhizospheres along living roots) or current or recent soil saturation (e.g., hydrogen sulfide odor, oxidized rhizospheres). Secondary indicators also include some indicators of recent inundation or saturation (e.g., drainage patterns, saturation visible on aerial imagery).

#### 4. RESULTS

# 4.1 Wetlands and Other Waters of the U.S. in the Survey Area

Six wetland verification areas were delineated within the study area totaling over 20 acres. These wetland areas are described in detail in Sections 4.1.1 thru 4.1.5 below. Table 2 contains a summary of all the wetlands delineated according to the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (USACE 2008a) and the Wetlands Delineation Manual (USACE 1987) within the survey area.

Table 2. Delineated Verification Wetlands within the Survey Area

Name	NWI Classification <sup>1</sup>	Latitude <sup>2</sup>	Longitude <sup>2</sup>	Area (Acre)	Method Used
Wetland	PEM1C	37.16	-107.7424	2.61	Field

Name	NWI Classification <sup>1</sup>	Latitude <sup>2</sup>	Longitude <sup>2</sup>	Area (Acre)	Method Used
Wetland	PEM1F	37.1668	-107.7443	0.57	Field
Wetland I	PEM1C	37.1655	-107.7377	16.42	Field
Wetland	PEM1F	37.1618	-107.7493	0.06	Field
Wetland L	PEM1F	37.1618	-107.7487	0.004	Field
Wetland	PEM1F	37.1579	-107.7532	0.45	Field
			Total	20.1	

<sup>&</sup>lt;sup>1</sup> PEMC1C = Palustrine emergent, seasonal, seasonally flooded; PEM1F = palustrine emergent, persistent, semi-permanently flooded (Cowardin, et al. 1979)

Other wetlands within the study area were identified using the NWI classification method described above. An additional 36.9 acres were delineated and mapped in the study area as potentially jurisdictional wetlands using NWI classification standards. In total, approximately 57 acres of potentially jurisdictional wetlands were delineated and mapped in the study area.

#### 4.1.1 Fallow Pasture, Northeast Corner

Roughly 17 acres of wetlands were delineated north of County Road 309a (Wetlands G and I) (Figure 3). Another 26.9 acres were classified as wetlands based on color infrared imagery, NWI classification standards (collectively, these are labeled H1 through H16). Wetlands in this pasture persist in part due to irrigation return flows from adjacent land use. Irrigation runoff from neighboring pastures introduce a seasonal supply of water to the fallow pasture. A network of ditches and laterals convey this water throughout and disperse water into mapped wetland areas (Photo 9). A total of 1.8 miles of ditches and laterals were measured from the color IR imagery in the northeast corner alone. This network of ditches and laterals flow into and out of three ponds (Photo 8). For some perspective, a review of historic aerial imagery shows surrounding land uses employed flood irrigation since 1993. A center pivot was added in an adjoining, tributary field by 2005, likely reducing irrigation return flows onto the property since that time. However, flood irrigation is still employed in the adjacent, tributary pasture.

Dominant hydrophytic vegetation in the fields included redtop (*Agrostis gigantea*), inland sedge (*Carex interior*), cattails (*Typha latifolia*), arctic rush (*Juncus arcticus*), barnyard grass (*Echinochloa crus-galli*) and creeping meadow foxtail (*Alopecurous arundinaceus*) (WDDF 1h-3h) (Photo 10). Hydric soils in the field were predominantly red parent material with a low chroma and evidence of reducing conditions.

<sup>&</sup>lt;sup>2</sup> North American Datum 83, decimal degrees

# **4.1.2** Wetlands within the Secured, Fenced Interior of the Durango - La Plata County Airport

Wetlands found within the secured, fenced interior of the Durango - La Plata County Airport were commonly observed below the mesa rim within drainages (Photo 11; Figure 7, 8 & 9). Wetland hydrology generally included saturated soil. All but one of the areas lacked surface flow, but instead included persistent hydrophytic vegetation such as cattails, arctic rush and redtop. One seep was observed below a sandstone outcrop, also in a natural drainage (Figure 6). Downstream of the seep, a wetland is formed on a narrow bench below the mesa rim within the piñon-juniper woodland (Photo 13). Once the gradient increases in the drainage, a narrow, wetland fringe buffers the stream. A jurisdictional ephemeral wash forms the headwater of this minor drainage.

# 4.1.3 Wetlands near Administrative Buildings and Main Terminal Parking

Wetlands J and M are man-made palustrine emergent wetlands designed to manage stormwater runoff from developed airport facilities (Photos 1 and 2; Figures 4 and 7). A concrete spillway and excavated basin collects and detains stormwater for treatment. Larger precipitation events will fill and eventually spill over the concrete structure into a man-made earthen channel to the Florida valley floor below. Hydrophytic vegetation was predominantly cattails. A narrow band of coyote willows (*Salix exigua*) was observed growing along the northwest shoreline. There are three storm inlets to Wetland M and two storm inlets into Wetland J. Hydric soil includes red parent material (WDDF 1m).

# 4.1.4 The Florida River, Valley Floor and Tributary Waters

The Florida River is a managed, perennial stream tributary to the Animas River. Surrounding floodplains, as a result, infrequently flood, unless as the result of a lower elevation, localized precipitation event. Lemon Reservoir is located roughly 20 miles upstream. Lemon reservoir is managed by the U.S. Bureau of Reclamation as a Colorado River Storage Project. The outflow from the reservoir on September 27, 2014, was 10 cubic feet per second. The Florida Water Conservancy District manages irrigation water deliveries from the reservoir. Irrigation return flows increase streamflow in the Florida River along its course and until its confluence with the Animas River.

Within the survey area, cattle have access to most all the river corridor, perhaps limiting establishment of woody riparian species, such as coyote willow. A few palustrine scrub shrub communities were identified, however. These were small, scattered communities of coyote willow and/or hawthorne (*Cratageus* spp).

Over 11.8 acres of palustrine emergent wetlands were mapped as wetlands west of the airport based on the color infrared imagery (Figures 4, 6, 7 & 8). Most wetlands have origin from the mesa top, as irrigation return flows and active ditches convey water from the mesa to the valley floor. Irrigation water is actively managed in ditches and laterals throughout this portion of the survey area. Approximately 1.1 miles of ditches were mapped west of the airport as part of this survey. Some ponds may be found throughout the valley floor, typically excavated areas fed by ditch laterals. Land uses on the valley floor include active agricultural (hay), animal husbandry (cows) and natural gas development.

Some palustrine emergent wetlands may be found adjacent to the Florida River. These are supported by a high groundwater table and often are found in abandoned oxbows or low river terraces (Photo 2). Pastures close to the river also receive supplemental irrigation return flows from flood irrigation of upper pastures.

## 4.1.5 Tributary Drainage to Salt Creek

The unnamed tributary to Salt Creek east of the airport (Wetland F) collects a significant portion of irrigation return flows from the fallow pasture in the northeast corner of the survey area. One airport stormwater drain outlet contributes to the stream flow (Photo 3). The drainage in most sections support a defined and active (vegetated) channel approximately 2 feet wide by 6 inches deep, depending on location. The upper portion of the drainage is low-gradient (Photos 6 and 7). The gradient does increase the further south it travels. The drainage supports a palustrine emergent wetland community along its course. Approximately 2.61 acres were delineated as part of this mapping effort (Figures 3 & 5). Another 0.44 acre was classified as wetland using the NWI classification standard (Figure 9). Dominant hydrophytic vegetation near the active channel included cattails with intermittent and sparing communities of northwest territory sedge (*Carex utriculata*). Hydrophytic vegetation near the wetland boundary was typically dominated by bluejoint (*Calamagrostis canadensis*) and Canada thistle (*Cirsium arvense*). Hydric soil near the wetland boundary included a depleted matrix with low chroma and a soil matrix containing redoxymorphic features (WDDF 1F through 5f). Portions of the drainage support coyote willow, typically when the stream gradient increases and the flood-prone area decreases.

# 5. REFERENCES

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Durango La Plata County Airport - Wetland and Waters of the U.S. Delineation Report
Appendix A: Wetland Delineation Maps and Figures

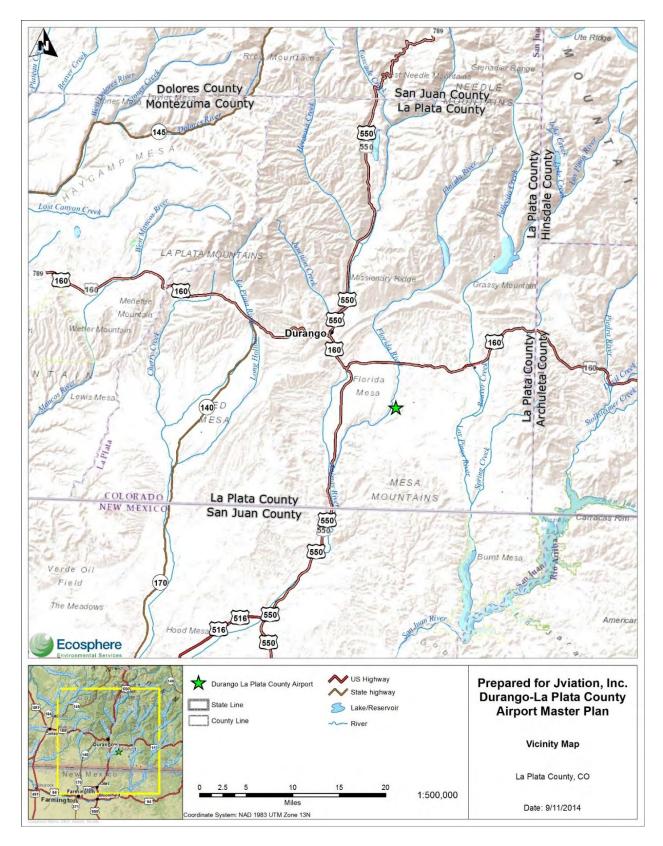
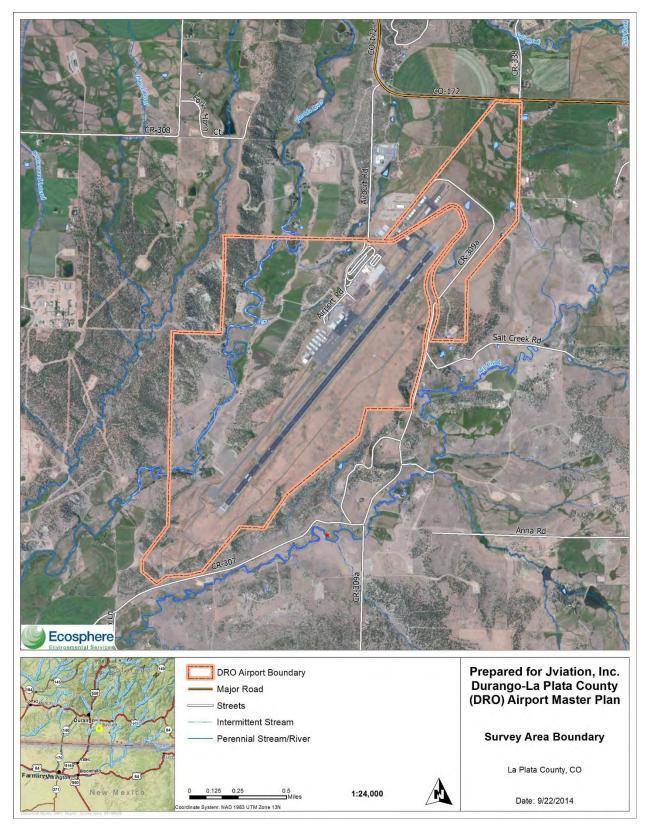


Figure 1. Vicinity Map of Durango-La Plata County Airport



**Figure 2. Survey Area Boundary** 

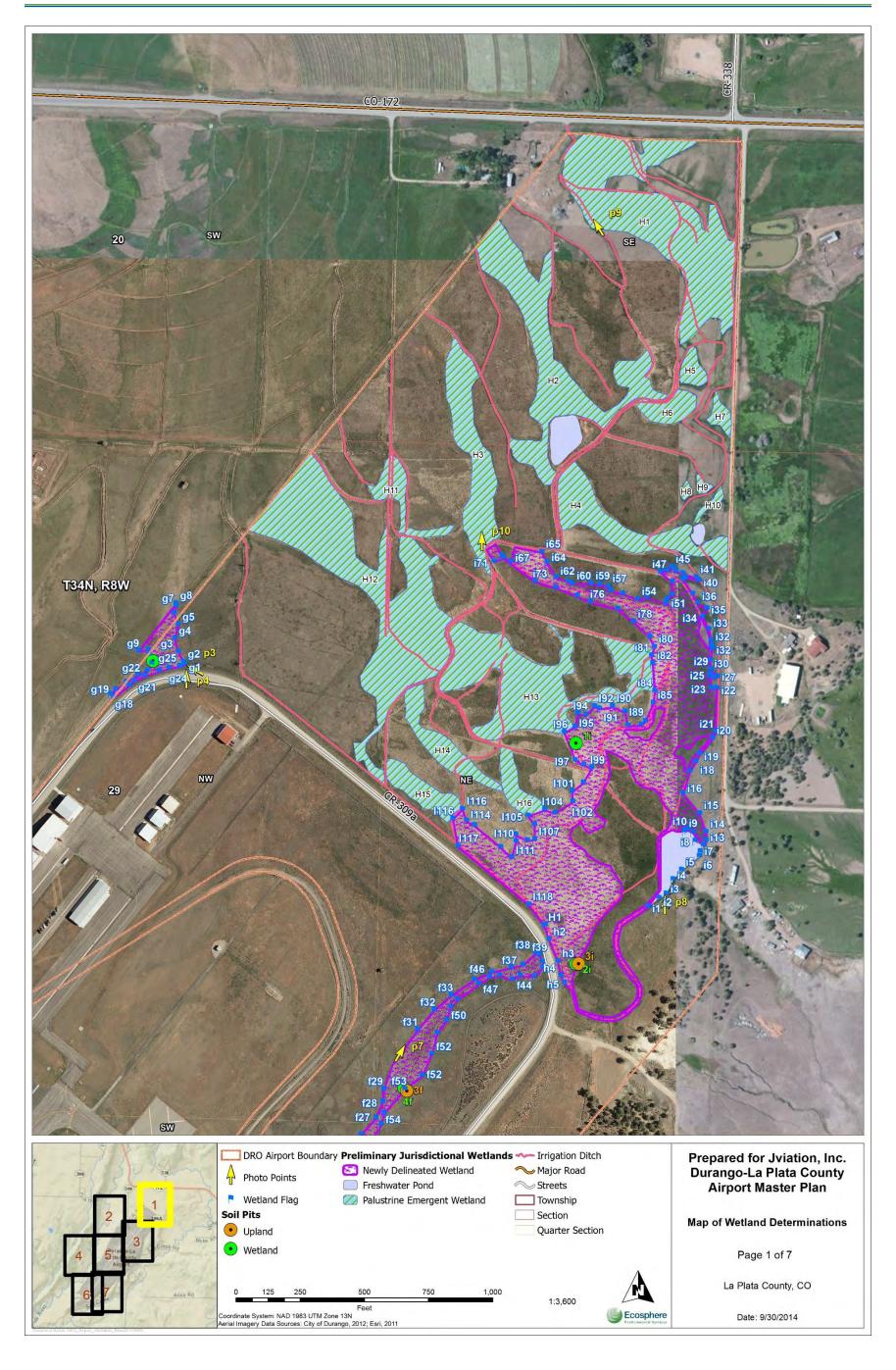


Figure 3. Wetland Determinations Map Book, page 1 of 7

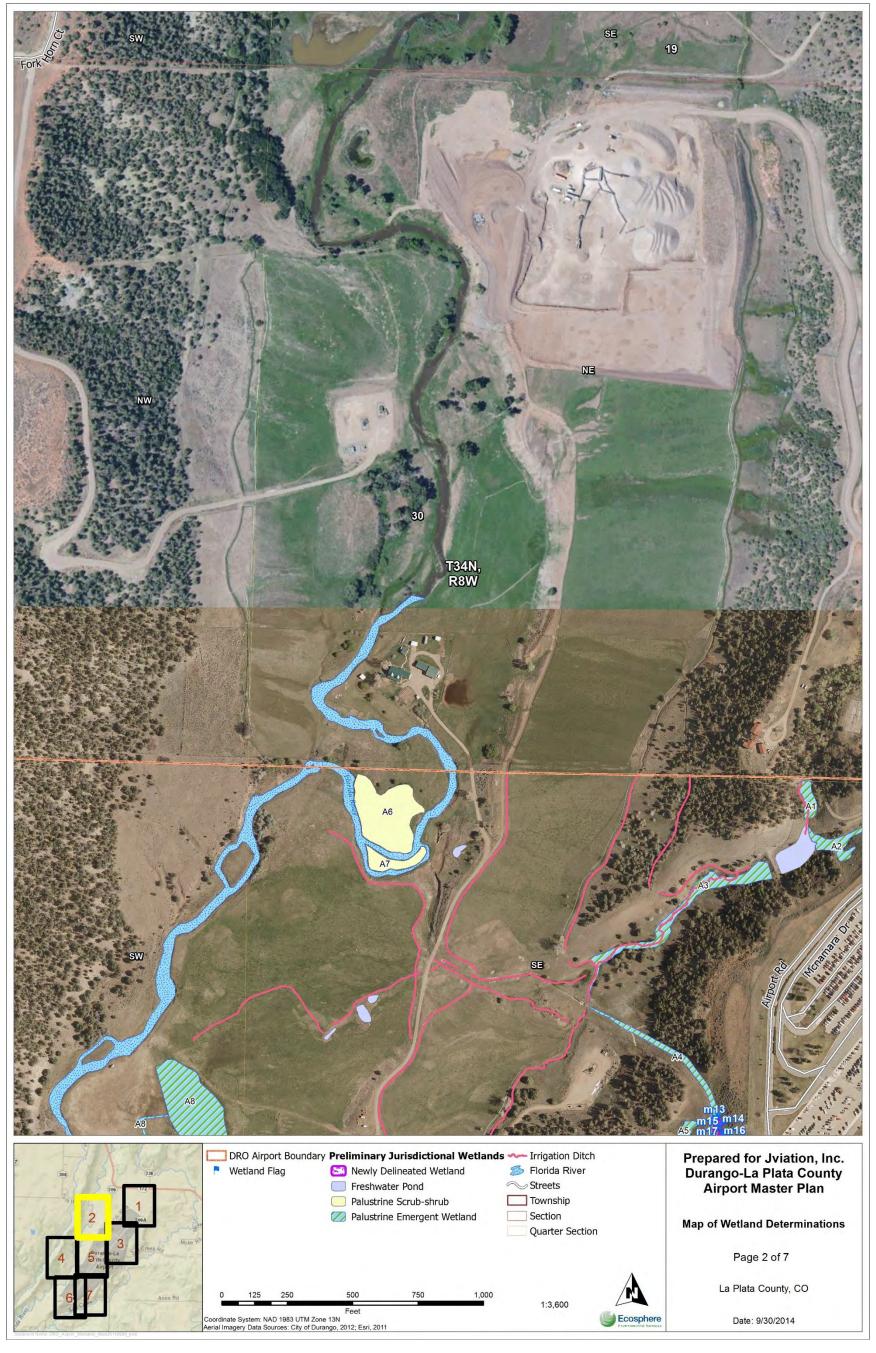


Figure 4. Wetland Determinations Map Book, page 2 of 7

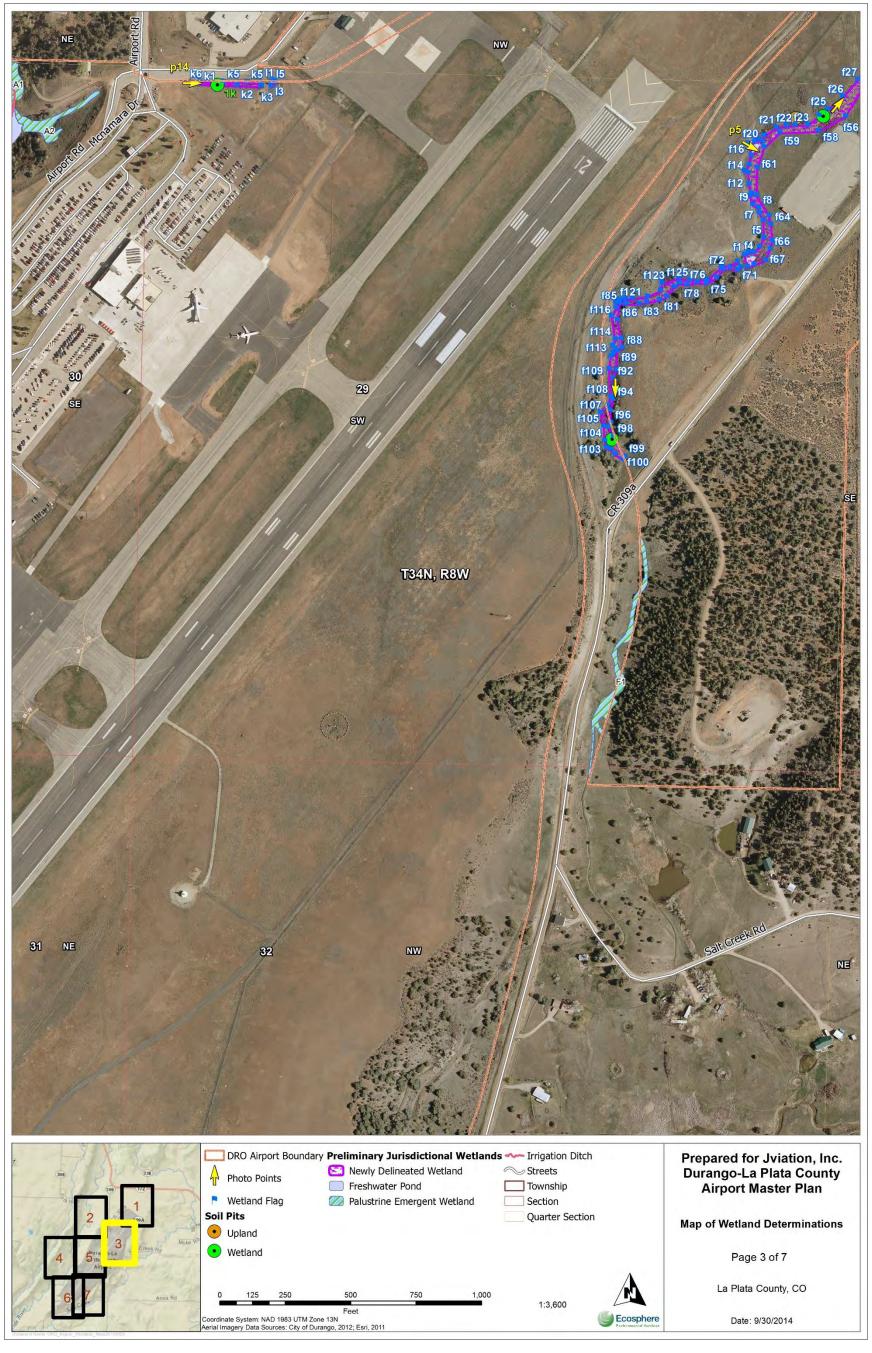


Figure 5. Wetland Determinations Map Book, page 3 of 7

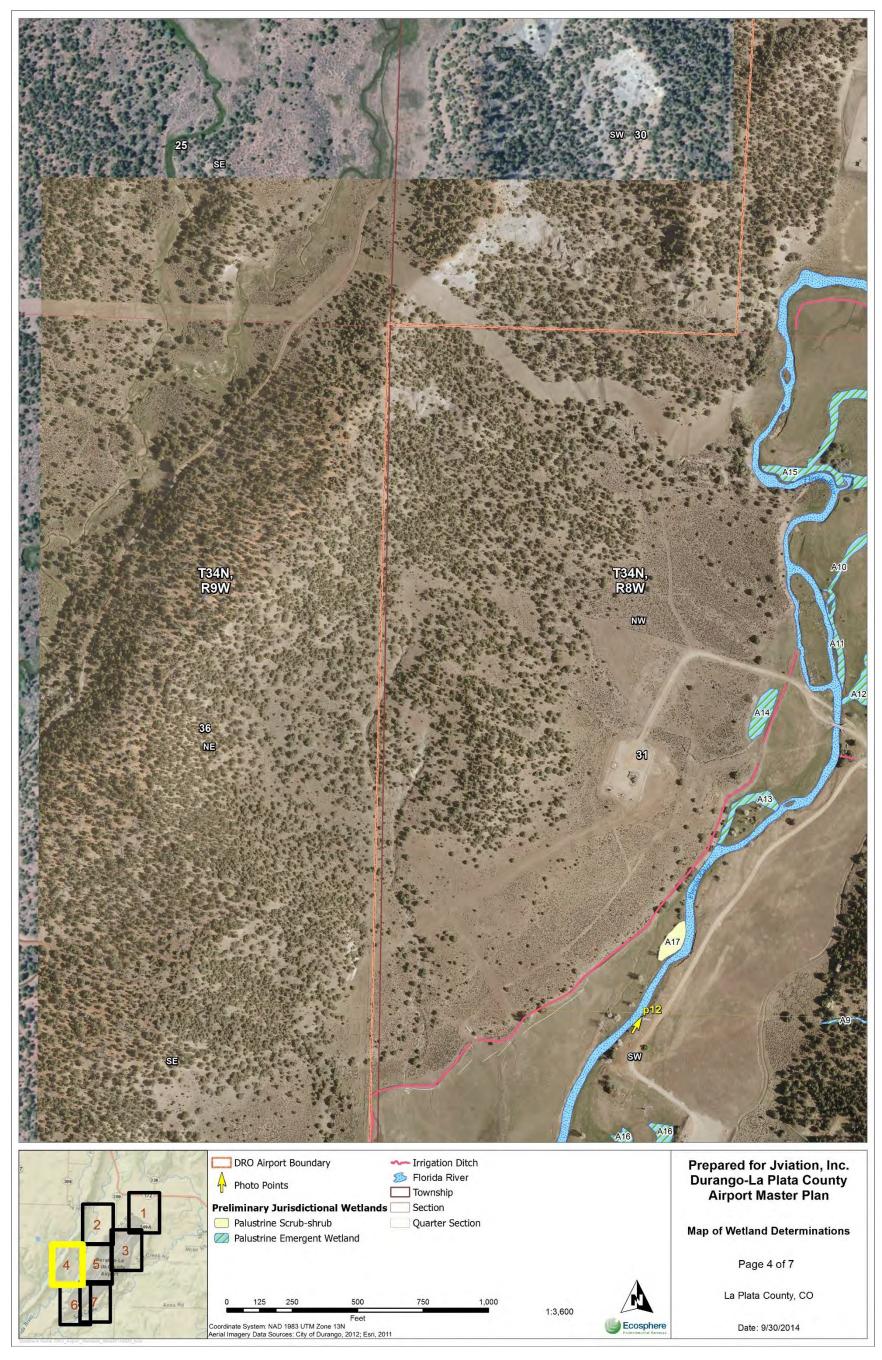


Figure 6. Wetland Determinations Map Book, page 4 of 7

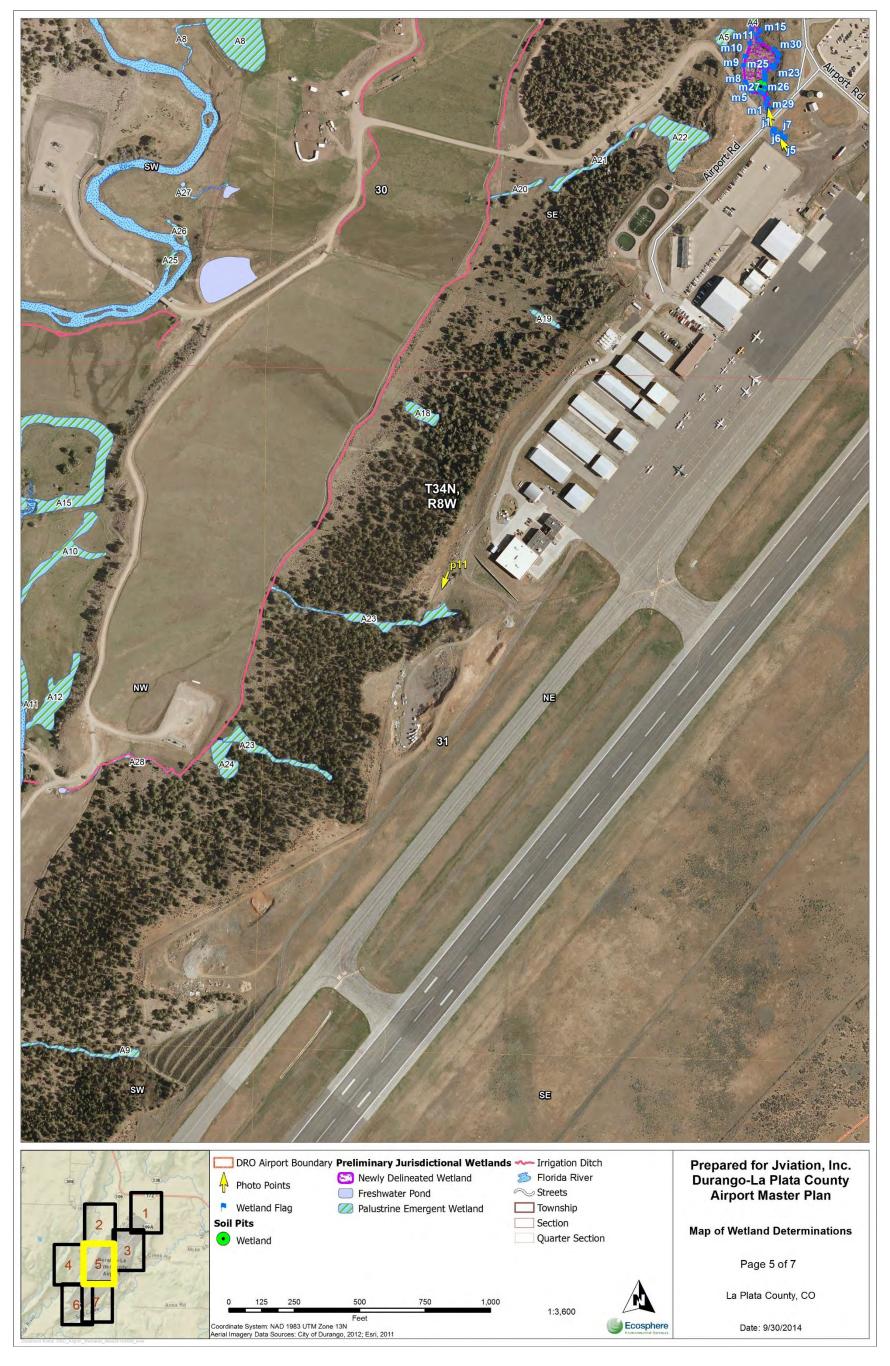


Figure 7. Wetland Determinations Map Book, page 5 of 7



Figure 8. Wetland Determinations Map Book, page 6 of 7



Figure 9. Wetland Determinations Map Book, page 7 of 7

Durango La Plata County Airport - Wetland and Waters of the U.S. Delineation R	eport
Appendix B: Plant Speci	ies Observed

Scientific Name	Common Name	Family	Wetland Indicator Status <sup>1</sup>
	TREES		
Juniperus osteosperma	Utah juniper	Cupressaceae	NI
Pinus edulis	twoneedle pinyon	Pinaceae	NI
Populus fremontii	Fremont cottonwood	Salicaceae	FAC
Populus angustifolia	Narrowleaf cottonwood	Salicaceae	FACW
Ulmus pumila	Siberian elm	Ulmaceae	UPL
	SHRUBS		
Juniperus communis	common juniper	Cupressaceae	FACU
Ribes aureum	golden currant	Grossulariaceae	FAC
Rosa woodsii	Wood's rose	Rosaceae	FACU
Salix amygdaloides	peach-tree willow	Salicaceae	FACW
Salix exigua	narrowleaf willow	Salicaceae	FACW
	FORBS		
Agrostis gigantea	redtop	Poaceae	FACW
Asclepias speciosa	Showy milkweed	Asclepiadaceae	FAC
Cirsium arvense	Canada thistle	Asteraceae	FACU
Carduus nutans	Nodding plumeless thistle	Asteraceae	FACU
Convolvulus arvensis	bindweed	Convolvulaceae	NI
Cynoglossum officinale	Houndstongue	Boraginaceae	FACU
Epilobium ciliatum	Fringed willowherb	Onagraceae	FACW
Helianthus annuus	sunflower	Asteraceae	FACU
Hordeum jubatum	Foxtail barley	Poaceae	FAC
Lepidium spp.	pepperweed	Brassicaceae	UPL
Melilotus officinalis	sweet clover	Fabaceae	FACU
Plantago lanceolata	plantain	Plantaginaceae	FAC
Plantago major	common plantain	Plantaginaceae	FAC
Polygonum amphibium	Water smartweed	Polygonaceae	OBL
Rumex crispus	curly dock	Polygonaceae	FAC
Sagittaria cuneata	Arumleaf arrowhead	Alismataceae	OBL
Symphiotrichum lanceolatum	White panicle aster	Poaceae	OBL
Typha latifolia	broadleaf cattail	Typhaceae	OBL
Verbascum thapsus	great mullein	Scrophulariaceae	FACU

Scientific Name	Common Name	Family	Wetland Indicator Status <sup>1</sup>
Viola nephrophylla	northern bog violet	Violaceae	FACW
Xanthium strumarium	rough cocklebur	Asteraceae	FAC
	GRAMINOI	DS	
Alopecurus arundinaceus	Creeping meadow foxtail	Poaceae	FAC
Agrostis gigantea	Redtop	Poaceae	FACW
Bromus inermis	smooth brome	Poaceae	FACU
Calamagrostis canadensis	Bluejoint	Poaceae	FACW
Carex bebbii	Bebb's sedge	Cyperaceae	OBL
Carex interior	Inland sedge	Cyperaceae	OBL
Carex utriculata	Northwest territory sedge	Cyperaceae	OBL
Echinochloa crus-galli	Barnyard grass	Poaceae	FACW
Eleocharis palustris	common spikerush	Cyperaceae	OBL
Equisetum hyemale	scouringrush horsetail	Equisetaceae	FACW
Glyceria striata	Fowl mannagrass	Poaceae	OBL
Hordeum jubatum	foxtail barley	Poaceae	FAC
Juncus arcticus	Arctic rush	Juncaceae	FACW
Phleum pratense	timothy	Poaceae	FACU
Poa palustris	Fowl bluegrass	Poaceae	FAC
Poa pratensis	Kentucky bluegrass	Poaceae	FAC
Puccinellia nuttalliana	Nuttall's alkaligrass	Poaceae	FACW
Scirpus americanus	American threesquare	Cyperaceae	OBL
Scirpus tabernaemontani	softstem bulrush	Cyperaceae	OBL

<sup>1:</sup> OBL=obligate, FACW=facultative wetland, FAC=facultative, FACU=facultative upland, UPL-upland, NI= no indicator, NL=not listed

Durango La Plata County Airport	- Wetland and Waters of the U.S. Delineation Report
	Appendix C: Wetland Delineation Forms

Project/Site: La Plata County Airport	City/County: La Plata	Sampling Date: 08/27/2014
Applicant/Owner: La Plata County/Cit	ty of Durango State: C	O Sampling Point: 1f
nvestigator(s): Ryan Unterreiner	Section, Township, Range: Sec. 29, 1	<u> </u>
andform (hillslope, terrace, etc.): Dra	inageway Local relief (concave, co	nvex, none): <u>concave</u> Slope (%): <u>2</u>
Subregion (LRR): Interior Deserts (LRR	D) Lat: 1.00000000 Long: 1.00	0000000 Datum: WGS84
soil Map Unit Name: Falfa Clay Loam,	3-8% NWI classification:	
Are climatic/hydrologic conditions on	the site typical for this time of year? 🔟	Yes (if no, explain in Remarks.)
Are Vegetation $\underline{x}$ , Soil $\underline{}$ , or Hydrolo	gy significantly disturbed?	Are "Normal Circumstances" present? Yes
Are Vegetation, Soil, or Hydrolo	ogy naturally problematic?	(if needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach Hydrophytic Vegetation Present? Hydric Soil Present?	site map showing sampling point  Yes No	locations, transects, important features, etc.
Wetland Hydrology Present? No		Is the Sampled Area within a Wetland? No
		13 the Sampled Area Within a Westand. 110

Tree Stratum (Plot size: 0 )  1. 2. 3.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant	<u>1</u> (A)
4. Total Cover = 0				Species Across All Strata:	<u>2</u> (B)
Sapling/Shrub Stratum (Plot size: 0 ) 1. <u>Salix exigua</u>	40	Yes	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>50</u> (A/B)
2. 3. 4. 5. Total Cover = <u>40</u>				Prevalence Index worksheet           Total % Cover of;         Mult           OBL species         0         x 1 =           FACW species         40         x 2 =	-
Herb Stratum (Plot size: 0 )  1. Carduus nutans  2. Cynoglossum officinale  3.  4.  5.  6.  7.  8.  Total Cover = 25	<u>5</u> <u>20</u>	<u>No</u> Yes	FACU FACU	FAC species 0 x3 = FACU species 25 x4 = UPL species 0 x5 = Column Totals: 65 (A)  Prevalence Index = B/A = 2.77	0 100
Woody Vine Stratum (Plot size: 0 )  1. 2. Total Cover = 0  % Bare Ground in Herb Stratum: 75 % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators  Dominance Test is >50% Yevalence Index is \$\leq 3.0^\tau Morphological Adaptations (is supporting data in Remarks or on a Problematic Hydrophytic Vegetalindicators of hydric soil and wetla must be present, unless disturbed	Provide a separate sheet) station <sup>1</sup> (Explain) nd hydrology
Remarks: Willow community adjacent to creek, but dy				Hydrophytic Vegetation Present?	Yes

Wetlands data compiled using Electronic Data Solutions' Everglade''' wetland delineation software

SOIL Sampling Point 1f Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Depth Type! Loc Texture Remarks (inches) 0-10 10YR 3/4 100 0 Loam 10-16 10YR 3/4 80 10YR 5/8 20 C M Loam 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. \*Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) \_\_\_ Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) \_\_\_ 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) \_\_\_ Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) \_\_\_ Thick Dark Surface (A12) Redox Depressions (F8) Indicators of hydrophytic vegetation and \_\_\_ Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present, unless \_\_ Sandy Gleyed Matrix (S4) disturbed or problematic. Restrictive Layer (if present): Type: Hydric Soil Present? No Depth (inches): 0 Remarks: Falfa clay loam is partially hydric. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (two or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Biotic Crust (B12) High Water Table (A2) Sediment Deposits (B2) (Riverine) Aquatic invertebrates (B13) Drift Deposits (B3) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Surface Soil Cracks (B6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (87) Shallow Aquitard (D3) Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Depth (inches): No Water Table Present? Depth (inches): No Saturation Present? Depth (inches): No (includes capillary fringe) Wetland Hydrology Present? No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: None Remarks; There is some surface runoff from the airport into this fan-like feature, Periodic flooding possible given geomorphic position (depressional).

Wetlands data compiled using Electronic Data Solutions' Everglade" wetland delineation software.

Project/Site: La Plata County Airport	City/County: La Plata	Sampling Date: <u>08/27/2014</u>
Applicant/Owner: La Plata County/City	y of Durango State:	CO Sampling Point: 1g
nvestigator(s): Rvan Unterreiner	Section, Township, Range: Sec.29	, T34N, R8W
andform (hillslope, terrace, etc.): Dep	ression Local relief (concave, o	convex, none): <u>concave</u> Slope (%): <u>1</u>
Subregion (LRR): Interior Deserts (LRR	D) Lat: 1.00000000 Long: 1.	.00000000 Datum: WGS84
Soil Map Unit Name: Falfa clay loam, 3	-8% NWI classification: PEM	
Are climatic/hydrologic conditions on t	he site typical for this time of year?	Yes (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo	gy significantly disturbed?	Are "Normal Circumstances" present? Yes
Are Vegetation, Soil, or Hydrolo	gy naturally problematic?	(if needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes	site map showing sampling poir <u>Yes</u> <u>Yes</u>	Is the Sampled Area within a Wetland? Yes
		1 1- 3
flows.	nd that collects and channels water	into a roadside ditch adjacent to CR 309a. Heavily influenced by irrigation return

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 0 )  2. 3. 4. Total Cover = 0	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata:	4(A) 4 (B)
Sapling/Shrub Stratum (Plot size: 0 ) L.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
2. 3. 1. 5. Total Cover ≃ <u>0</u>				Prevalence Index worksheet  Total % Cover of: Multip OBL species 20 x1 =	20
Herb Stratum (Plot size: 0 )  1. Hordeum jubatum  2. Rumex crispus  3. Poa pratensis  4. Alopecurus aequalis  5. Agrostis gigantea  6.  7.  8.  Total Cover = 100	20 10 30 20 20	Yes No Yes Yes Yes	FAC FAC OBL FACW	FACW species 20 x2 = FAC species 60 x3 = FACU species 0 x4 = UPL species 0 x5 = Column Totals: 100 (A)  Prevalence Index = B/A = 2.40	40 180 0 0 2 240 (B)
Woody Vine Stratum (Plot size: 0 )  1. 2. Total Cover ≈ 0  % Bare Ground in Herb Stratum: 0  % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators:  X Dominance Test is >50%  X Prevalence Index is ≤ 3.0°  X Morphological Adaptations¹ (Produced in Remarks or on a separate sheet problematic Hydrophytic Vegetation in the problematic Hydrophytic Vegetation in the present, unless disturbed or	eet) ation <sup>1</sup> (Explain) d hydrology
Remarks: Cattails predominant in the middle of the w	retland area.			Hydrophytic Vegetation Present? Y	es

Wetlands data compiled using Electronic Data Solutions' Everglade™ wetland deliriention software.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Tom Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sedox Depressions (F8)  Vernal Pools (F9)  Wetland hydrology must be present;  Type:  Depth (inches): 0  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2Location: PL=Pore Lining, M=Matrix  Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1) Histosol (A2) Sandy Redox (55) Histic Epipedon (A2) Stripped Matrix (56) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F2) Stratified Layers (A5) (LRR D) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sestricitive Layer (if present): Type: Depth (inches): 0  C M Clay Loam  Indicators of Problematic Hydr  Indicators for Pro
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (56)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (F3)  Wernal Pools (F9)  Redox Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Gleyed Matrix (S4)  Respective Layer (if present):  Type:  Depth (inches): Q  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stripped Matrix (F2)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F3)  Thick Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (F1)  Redox Depressions (F8)  Thick Dark Surface (A12)  Sandy Mucky Mineral (F1)  We Redox Depressions (F8)  Fandy Mucky Mineral (F1)  We Redox Dark Surface (F7)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  We real Pools (F9)  We real Pools (F9)  Reservictive Layer (if present):  Type:  Depth (inches): O  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): O  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Tem Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (F3)  Vernal Pools (F9)  Wetland hydrology must be present in present;  Type:  Depth (inches): Q  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Depleted Matrix (F2) X Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)  1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Indicators of hydrophytic veget wetland hydrology must be presently disturbed or problematic.  Restrictive Layer (if present): Type: Depth (inches): Q Hydric Soil Present? Yes  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Hydrogen Sulfide (A4)  Stratified Layers (A5) (LRR C)  Depleted Matrix (F2)  Tem Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Redox Depressions (F8)  Vernal Pools (F9)  Wetland hydrology must be present disturbed or problematic.  Restrictive Layer (if present):  Type:  Depth (inches): Q  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Matrix (F3)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type:
1 cm Muck (A9) (LRR D)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type:  Depth (inches): Q  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type: Depth (inches): Q  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Thick Dark Surface (A12) Redox Depressions (F8) Indicators of hydrophytic veget wetland hydrology must be presently a factorized for problematic.  Restrictive Layer (if present): Type: Depth (inches): Q Hydric Soil Present? Yes  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)  Restrictive Layer (if present): Type: Depth (inches): Q  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Sandy Gleyed Matrix (54) disturbed or problematic.  Restrictive Layer (if present): Type: Depth (Inches): 0 Hydric Soil Present? Yes  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Restrictive Layer (if present): Type: Depth (inches): 0  Hydric Soil Present? Yes  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Type: Depth (Inches): 0 Hydric Soil Present? Yes  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Depth (inches): 0 Hydric Soil Present? Yes  Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
Remarks: Falfa clay loam, 3-8% is partially hydric. Red parent material predominant in northeastern study area (fallow agricultural field).
YDROLOGY
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (two or more
X Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine)
High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (River
X. Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) X. Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)Presence of Reduced Iron (C4)Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)X_ Saturation Visible on Aerial Im-
Inundation Visible on Aerial Imagery (B7)Thin Muck Surface (C7)Shallow Aquitard (D3)
Water-Stained Leaves (89) Other (Explain in Remarks) FAC-Neutral Test (D5)
Water-Stained Leaves (89) Other (Explain in Remarks) FAC-Neutral Test (05)
Field Observations: Surface Water Present? Yes Depth (inches): 6
Field Observations: Surface Water Present? Yes Depth (inches): 6 Water Table Present? No Depth (inches):
Field Observations:         Surface Water Present?         Yes         Depth (inches): 6           Water Table Present?         No         Depth (inches):           Saturation Present?         Yes         Depth (inches): 0
Field Observations:         Surface Water Present?         Yes         Depth (inches): 6           Water Table Present?         No         Depth (inches):           Saturation Present?         Yes         Depth (inches): 0           (includes capillary fringe)         Wetland Hydrology Present? Yes
Field Observations:  Surface Water Present? Yes Depth (inches): 6  Water Table Present? No Depth (inches): 5  Saturation Present? Yes Depth (inches): 0  (includes capillary fringe) Wetland Hydrology Present? Yes
Field Observations:  Surface Water Present? Yes Depth (inches): 6  Water Table Present? No Depth (inches): 5  Saturation Present? Yes Depth (inches): 0  (includes capillary fringe)  Wetland Hydrology Present? Yes  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Field Observations:         Surface Water Present?         Yes         Depth (inches): 6           Water Table Present?         No         Depth (inches):           Saturation Present?         Yes         Depth (inches): 0           (includes capillary fringe)         Wetland Hydrology Present? Yes
Field Observations: Surface Water Present? Yes Depth (inches): 6 Water Table Present? No Depth (inches): 6 Water Table Present? No Depth (inches): 0 Saturation Present? Yes Depth (inches): 0 Wetland Hydrology Present? Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Area frequently flooded from runoff by adjacent flood irrigation practices. Up to 6 inches of water was present in the middle of
Field Observations:  Surface Water Present? Yes Depth (inches): 6  Water Table Present? No Depth (inches): 5  Saturation Present? Yes Depth (inches): 0  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Area frequently flooded from runoff by adjacent flood irrigation practices. Up to 6 inches of water was present in the middle of

 $We tiands\ data\ compiled\ using\ Electronic\ Data\ Solutions'\ Everglade'``we tiand\ delineation\ software.$ 

rango State: <u>CO</u> ion, Township, Range: <u>Sec.29, T34P</u> ay Local relief (concave, conve Lat: <u>12.00000000</u> Long: <u>12.000</u> NWI classification: <u>PEM</u> typical for this time of year? <u>Yes</u>	x, none): <u>concave</u> Slope (%): <u>1</u> 000000 Datum: <u>WGS84</u>	
Local relief (concave, converted: 12.0000000 Long: 12.000  NWI classification: PEM	x, none): <u>concave</u> Slope (%): <u>1</u> 000000 Datum: <u>WGS84</u>	
Lat: <u>12.00000000</u> Long: <u>12.000</u> NWI classification: <u>PEM</u>	000000 Datum: <u>WGS84</u> .	
NWI classification: PEM		
typical for this time of year? Ves	The state of the s	
TAburat Inc ruin ruine of Acol: Tea	(if no, explain in Remarks.)	
ignificantly disturbed? A	re "Normal Circumstances" present? Yes	
naturally problematic? (r	f needed, explain any answers in Remarks.)	
	Is the Sampled Area within a Wetland? Yes	
	naturally problematic? (i	naturally problematic? (If needed, explain any answers in Remarks.)  nap showing sampling point locations, transects, important features, etc.

VEGETATION - Use scientific names of plants.

% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
			Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
			OBL species 28 x1 =	28
60 10 15 3 3	Yes No No Yes No	FAC OBL OBL OBL FACW	FACW species 3 x 2 = FAC species 60 x 3 = FACU species 0 x 4 = UPL species 0 x 5 = Column Totals: 91 (A)  Prevalence Index = B/A = 2.35	<u>5</u> <u>180</u> <u>0</u> <u>0</u> <u>214</u> (B)
			data in Remarks or on a separate she Problematic Hydrophytic Vegeta Indicators of hydric soil and wetland	eet) ition <sup>1</sup> (Explain) I hydrology
loned ditch late	ral with some	standing wate		
		60 Yes 10 No 15 No 3 Yes 3 No	60 Yes FAC 10 No OBL 15 No OBL 3 Yes OBL 3 No FACW	That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet  Total % Cover of:  DBL species 28 x1 = FAC w species 28 x1 = FAC species 3 x2 = FAC species 60 x3 = FAC species 0 x4 = UPL species 0 x4 = UPL species 0 x5 = Column Totals: 91 (A) Prevalence Index = B/A = 2.35

Wetlands data compiled using Electronic Data Solutions' Everglade<sup>19</sup> wetland delineation software.

nches)	Color (moist)	%	Color (mois	st) %	Type1	Loc2	Texture		Remarks	
		- 4		7 10	84.54					
0-12	7.5YR 4/2	<u>80</u>	7.5YR 6/8	20	<u>C</u>	<u>M</u>	Clay Loam			
							l I			
Type: C=	Concentration D	=Depletion	RM=Reduce	d Matrix, CS	Covered o	r Coated	Sand Grains (	ocation: PL:	Pore Lining, M=Matrix	
200			7	11 11 11 11	333.335	,	Danie Oranie.			
	il Indicators: (App	licable to al	ILRRs, unte					_	ors for Problematic Hydric Soils <sup>a</sup> :	
	sol (A1)				Redox (S5)	£		_	m Muck (A9) (LRR C)	
	Epipedon (A2)		- 11		d Matrix (S	200 100 100			m Muck (A10) (LRR B)	
Black	Histic (A3)			Loamy	Mucky Mir	eral (F1)		Re	duced Vertic (F18)	
Hydro	gen Sulfide (A4)			Loamy	Gleyed Ma	trix (F2)		X Red	d Parent Material (TF2)	
Stratif	fied Layers (A5) (L	RR C)		Deplete	ed Matrix (	F3)		Oti	her (Explain in Remarks)	
1 cm	Muck (A9) (LRR D)			Redox I	Dark Surfac	e (F6)		7.00		
	ted Below Dark Su			Deplete	d Dark Sur	face (F7)		**************************************		
Thick	Dark Surface (A12	2)		Redox I	Depression	s (F8)	Indicators of hydrophytic vegetation a			
Sandy	Mucky Mineral (S	S1)		Vernal	Pools (F9)			wetland hydrology must be present, unless		
Sandy	Gleyed Matrix (S	4)			2 - 20			disturb	ped or problematic.	
Restrictiv	e Layer (if present	t):								
Type:	a Justice							in die	C-11 D	
Depth (i	nches): <u>0</u> Falfa clay loam, 3	-8% is partia	illy hydric					Hydric	Soil Present? <u>Yes</u>	
Depth (i	Falfa clay loam, 3	-8% is partia	illy hydric					Hydric	Soil Present? <u>Yes</u>	
Depth (i	Falfa clay loam, 3		illy hydric	18/77				Hydric	Soil Present? <u>Yes</u>	
Depth (i Remarks: YDROLO Vetland H	Falfa clay loam, 3- GY Hydrology Indicate dicators (minimum	ors:			-			Secondary	r Indicators (two or more required)	
Depth (i Remarks: YDROLO Wetland H Surface	GY Hydrology Indicated dicators (Minimum e)	ors:		Salt Crust (B	11)			Secondary Wate	r Indicators (two or more required) r Marks (B1) (Riverine)	
Pepth (i Remarks:  YDROLO Wetland H  Surfac  High V	GY Hydrology Indicated dicators (Minimum e Water (A1) Vater Table (A2)	ors:	quired; chec	Salt Crust (B Biotic Crust	(B12)			Secondary Wate	r Indicators (two or more required) ir Marks (B1) (Riverine) nent Deposits (B2) (Riverine)	
Pepth (i Remarks:  YDROLO Wetland F Surfac High V X Satura	GY Hydrology Indicated dicators (minimum to Water (A1) Vater Table (A2) tion (A3)	ors: m of one rec	quired; chec	Salt Crust (B Biotic Crust Aquatic Inve	(B12) ertebrates			Secondary Wate Sedin	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine)	
YDROLO Wetland H Surfac High V X Satura Water	GY Hydrology Indicated dicators (minimum Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None	ors: m of one rec riverine)	quired; chec	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si	(B12) ertebrates ulfide Odo	(C1)		Secondary Wate Sedin Drift Drain	r Indicators (two or more required) or Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)	
YDROLO Wetland H Surfac High V X Satura Water Sedim	GY Hydrology Indicated dicators (minimum Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B2)	ors: m of one rec riverine) (Nonriverine	quired; check	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi	(B12) ertebrates ulfide Odor zospheres	(C1) along Liv	ing Roots (C3)	Secondary Wate Sedin Drift Drain Dry-S	r Indicators (two or more required) or Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2)	
YDROLO Wetland H Surfac High V X Satura Water Sedim Drift D	GY Hydrology Indicated dicators (minimum Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B2)	ors: m of one rec riverine) (Nonriverine)	quired; check	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of	(B12) (B12) ertebrates ulfide Odo zospheres Reduced I	(C1) along Liv ron (C4)		Secondary Wate Sedin Drift Drain Dry-S Crayfi	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2)	
YDROLO Wetland H Surfac High V X Satura Water Sedim Drift E Surfac	GY Hydrology Indicated dicators (minimum or Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B2) Deposits (B3) (None Soil Cracks (B6)	ors: m of one rec riverine) (Nonriverine) riverine)	e) X	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron	(B12) (B12) ertebrates ulfide Odor zospheres Reduced I Reduction	(C1) along Liv ron (C4) in Tilled		Secondary Wate Sedin Drift Drain Dry-S Crayf	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9)	
YDROLO Vetland H Surfac High V X Satura Water Sedim Drift E Surfac	GY Hydrology Indicated dicators (minimum Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B2)	ors: m of one rec riverine) (Nonriverine) riverine)	e) X	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck	(B12) ertebrates ulfide Odor zospheres Reduced I Reduction Surface (C7	(C1) along Liv ron (C4) in Tilled :		Secondary Wate Sedin Drift Drain Dry-S Crayf Satur Shallo	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) low Aquitard (D3)	
YDROLO Wetland H Surfac High V X Satura Water Sedim Drift D Surfac Inunda	GY Hydrology Indicated dicators (minimum or Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B2) Deposits (B3) (None Soil Cracks (B6)	ors: m of one rec riverine) (Nonriverine) riverine)	e) X	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron	(B12) ertebrates ulfide Odor zospheres Reduced I Reduction Surface (C7	(C1) along Liv ron (C4) in Tilled :		Secondary Wate Sedin Drift Drain Dry-S Crayf Satur Shallo	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9)	
YDROLO Wetland H Surfac High V X Satura Water Sedim Drift D Surfac Inunda	GY Hydrology Indicated dicators (minimum or Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B2) Deposits (B3) (None Soil Cracks (B6) ation Visible on Aer-Stained Leaves (Expressions:	ors: m of one rec riverine) (Nonriverine) riverine) erial Imagery	e) <u>X</u>	Salt Crust (B Biotic Crust Aquatic Inva Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla	(B12) ertebrates ulfide Odor zospheres Reduced I Reduction Surface (C7	(C1) along Liv ron (C4) in Tilled :		Secondary Wate Sedin Drift Drain Dry-S Crayf Satur Shallo	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) low Aquitard (D3)	
YDROLO Netland H Surfac High V X Satura Water Sedim Drift E Surfac Inunda	GY Hydrology Indicated dicators (minimum of Water (A1) Water Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) atton Visible on Ae-Stained Leaves (Bervations:	ors: m of one rec riverine) (Nonriverine) riverine) erial imagery	e) X	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Explant)	(B12) ertebrates ulfide Odor zospheres Reduced I Reduction Surface (C7	(C1) along Liv ron (C4) in Tilled :		Secondary Wate Sedin Drift Drain Dry-S Crayf Satur Shallo	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) low Aquitard (D3)	
YDROLO Netland H Surfac High V X Satura Water Sedim Unific Water Gield Obse	GY Hydrology Indicate dicators (minimum to Water (A1) Water Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) ation Visible on Ae-Stained Leaves (Bervations:	ors: m of one rec riverine) (Nonriverine) riverine) erial Imagery 39)	e) X	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla- es):	(B12) ertebrates ulfide Odor zospheres Reduced I Reduction Surface (C7	(C1) along Liv ron (C4) in Tilled :		Secondary Wate Sedin Drift Drain Dry-S Crayf Satur Shallo	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2) lish Burrows (C8) ation Visible on Aerial Imagery (C9) low Aquitard (D3)	
YDROLO Vetland H Surfac High V X Satura Water Sedim Orift D Surfac inunda Water Field Obse surface W Vater Tab	GY Hydrology Indicate dicators (minimum to Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) ation Visible on Ae-Stained Leaves (Eervations: later Present?	ors: m of one rec riverine) (Nonriverine) riverine) erial Imagery 39)	e) X	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla- es):	(B12) ertebrates ulfide Odor zospheres Reduced I Reduction Surface (C7	(C1) along Liv ron (C4) in Tilled :	Soils (C6)	Secondary  Wate Sedin Drift Drain Crayf Satur Shalle	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)	
YDROLO Wetland H Surfac High V X Satura Sedim Orift D Surfac Inunda Water Sield Obse	GY Hydrology Indicate dicators (minimum to Water (A1) Water Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) ation Visible on Ae-Stained Leaves (Bervations:	ors: m of one rec riverine) (Nonriverine) riverine) erial (magery 39) No No Yes	e) X  y (B7)  Depth (inche	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla 25): 25):	(B12) (B12) ertebrates ulfide Odoi zospheres Reduced I Reduction Surface (C)	r (C1) along Liv ron (C4) in Tilled : 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayf Satur Shall FAC-f	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)	
YDROLO Wetland H Surfac High V X Satura Sedim Orift D Surfac Inunda Water Sield Obse	GY Hydrology Indicate dicators (minimum to Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) ation Visible on Aer-Stained Leaves (Bervations: later Present? Present? Present?	ors: m of one rec riverine) (Nonriverine) riverine) erial (magery 39) No No Yes	e) X  y (B7)  Depth (inche	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla 25): 25):	(B12) (B12) ertebrates ulfide Odoi zospheres Reduced I Reduction Surface (C)	r (C1) along Liv ron (C4) in Tilled : 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayf Satur Shall FAC-f	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)	
YDROLO Wetland H Primary In Surfac High V X Satura Water Sedim Orift D Surfac Inunda Water Field Obsessionates of	GY Hydrology Indicate dicators (minimum to Water (A1) Vater Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) ation Visible on Aer-Stained Leaves (Bervations: later Present? Present? Present?	ors: m of one rec riverine) (Nonriverine) erial Imagery 39) No No No No Yes	e) X  Depth (inche) Depth (inche) Depth (inche) monitoring	Salt Crust (B Biotic Crust Aquatic Inva Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla es): es): es):	(B12) (B12) ertebrates ulfide Odoi zospheres Reduced I Reduction Surface (C)	r (C1) along Liv ron (C4) in Tilled : 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayf Satur Shall FAC-f	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)	
YDROLO Vetland H Trimary In Surfac High V X Satura Water Sedim Drift E Surfac Inunda Water Field Obseiurface W Vater Tab Saturation includes G Describe F	GY Hydrology Indicated dicators (minimum or Water (A1) Water Table (A2) tion (A3) Marks (B1) (None ent Deposits (B3) (None Soil Cracks (B6) at ion Visible on Aer-Stained Leaves (Bervations: (ater Present? (ater Present) (ater Present? (ater Present)	ors: m of one rec riverine) (Nonriverine) erial Imagery 39) No No No No Yes	e) X  Depth (inche) Depth (inche) Depth (inche) monitoring	Salt Crust (B Biotic Crust Aquatic Inva Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck Other (Expla es): es): es):	(B12) (B12) ertebrates ulfide Odoi zospheres Reduced I Reduction Surface (C)	r (C1) along Liv ron (C4) in Tilled : 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayf Satur Shall FAC-f	r Indicators (two or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)	

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And West Region

Wetlands data compiled using Electronic Data Solutions' Everglade" wetland delineation software.

Project/Site: La Plata County Airport	City/County: La Plata	Samp	oling Date: <u>09/25/2014</u>	
Applicant/Owner: La Plata County/City	of Durango Sta	te: <u>CO</u>	Sampling Point: 1k	
nvestigator(s): Ryan Unterreiner	Section, Township, Range: Sec.	29, T34N, R8W		
andform (hillslope, terrace, etc.): Char	nnel Local relief (concave	e, convex, none): <u>con</u>	cave Slope (%): <u>2</u>	
ubregion (LRR): Interior Deserts (LRR I	D) Lat: 11.00000000 Lon	g: 11.00000000 Datu	m: <u>WGS84</u>	
ioil Map Unit Name: Falfa clay loam, 3-	8% NWI classification: R25	87x		
Are climatic/hydrologic conditions on t	he site typical for this time of yea	r? Yes (if no	, explain in Remarks.)	
Are Vegetation, Soil, or Hydrolog	gy significantly disturbed?	Are "Normal C	rcumstances" present? Yes	
Are Vegetation, Soil, or Hydrolog	gy naturally problematic?	(if needed, exp	lain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes	Yes Yes	Is the Samp	led Area within a Wetland? Yes	
Remarks: Uniform, linear excavated c	hannel adjacent to CR 309a conve	eying irrigation return	flows to the Florida River valley floor.	

VEGETATION – Use scientific names of plants.

Tree Stratum (Piot size: 0 )  1. Populus angustifolia 2. 3, 4. Total Cover = 5	Absolute % Cover 5	Dominant Species? <u>Yes</u>	Indicator Status <u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4(A)  Total Number of Dominant Species Across All Strata: 4 (B)
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u> )  1. <u>Salix exigua</u> 2.  3.  4.  5.  Total Cover = <u>10</u>	<u>10</u>	<u>Yes</u>	FACW	Percent of Dominant Species   100 (A/B)
Herb Stratum (Plot size: 0 )  1. Typha latifolia  2. Juncus balticus  3. symphiotrychum lanceolatum  4. Asclepias incarnata  5.  6.  7.  8.  Total Cover = 95	70 10 5 10	Yes No No Yes	OBL FACW OBL OBL	FAC species $Q$ $\times 3 = Q$ FACU species $Q$ $\times 4 = Q$ UPL species $Q$ $\times 5 = Q$ Column Totals: $110$ (A) $135$ (B)  Prevalence Index = B/A = $1.23$
Woody Vine Stratum (Plot size: 0 )  1. 2. Total Cover ≈ 0  % Bare Ground in Herb Stratum: 0  % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators:  X Dominance Test is >50% X Prevalence Index is ≤ 3.0 <sup>1</sup> X Morphological Adaptations <sup>1</sup> (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain lindicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
				Hydrophytic Vegetation Present? Yes

Wetlands data compiled using Electronic Data Solutions¹ Everglade™ wetland delineation software.

Depth	Matrix			Redox Fe	_				Car a
nches)	Color (maist)	% Cc	olor (moist)	%	Type <sup>1</sup>	Loc	Texture		Remarks
Type: C:	=Concentration, D=D	Depletion, RM	1=Reduced M	atrix, CS	=Covered o	or Coated	Sand Grains L	ocation: PL=	Pore Lining, M=Matrix
lydric Sc	oil Indicators: (Applic	cable to all Li	RRs, unless of	herwise	noted.)			Indicate	ors for Problematic Hydric Soils <sup>3</sup> ;
Black Hydro Strati 1 cm Deple	Stric Epipedon (A2)				Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)				m Muck (A10) (LRR B) duced Vertic (F18) d Parent Material (TF2) er (Explain in Remarks)  tors of hydrophytic vegetation and d hydrology must be present, unless ed or problematic.
Restrictive Layer (if present): Type: Depth (inches): <u>0</u>									
1717	: No soil pit, riverine	wetland. Hyd	dric soil assum	ned, or d	eveloping.			Hydric	Soil Present? <u>Yes</u>
Remarks:	No soil pit, riverine		dric soil assum	ned, or d	eveloping.			Hydric	Soil Present? <u>Yes</u>
YDROLO Vetland	: No soil pit, riverine  OGY  Hydrology Indicators Indicators (minimum	s:	red; check all	that app	ly)			Secondary	Indicators (two or more required)
YDROLO Vetland Vimary II X Surfac High V X Satura Wate Sedim Drift I Surfac Inund Wate	OGY Hydrology Indicators indicators (minimum water (A1) water Table (A2) ation (A3) r Marks (B1) (Nonriv nent Deposits (B2) (N Deposits (B3) (Nonriv ce Soil Cracks (B6) lation Visible on Aeri r-Stained Leaves (B9	of one requirements verine) Nonriverine) verine)	red; check all Salt Biol Aqu Hyo Oxid Pre Rec	that app Crust (B tic Crust Jatic Inve Grogen Si dized Rh sence of Jent Iron in Muck	lly) 111) (812) ertebrates ulfide Odo	(813) r (C1) along Liv ron (C4) in Tilled	ing Roots (C3) Soils (C6)	Secondary Wate Sedin Drift X Draina Dry-S Crayfi Satur Shalk	
YDROLO Vetland rimary Ir X Surfac High V X Satura Wate Sedim Orift I Surfac Inund Wate Teld Obs urface W	DGY Hydrology Indicators ndicators (minimum te Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv nent Deposits (B2) (N Deposits (B3) (Nonriv ce Soil Cracks (B6) lation Visible on Aeri r-Stained Leaves (B9 ervations: Vater Present? ble Present?	verine) Nonriverine) verine) verine) verine) verine) Verine) Verine)	red; check all Salt Biol Aqu Hyo Oxid Pre Rec	that app Crust (B tic Crust Justic Inve Grogen Si dized Rh sence of Justic Involve Justic Involv	ly) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	(813) r (C1) along Liv ron (C4) in Tilled	Soils (C6)	Secondary Wate Sedin Drift X Draina Dry-S Crayfi Satur Shalla	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
YDROLO Vetland Irimary Ir X Surfac High V X Satura Vate Sedim Orift I Surfac Inund Wate Teld Obs urface W Vater Tal aturation	DGY Hydrology Indicators Indicators (minimum The Water (A1) Water Table (A2) Indicators (B1) (Nonriv The Deposits (B2) (Nonriv The Deposits (B3) (Nonriv The Deposits (B4) (Nonriv The Deposits (B4) (Nonriv The Deposits (B4) (No	verine) Nonriverine) verine) verine)  verine)  yerine)  yerine)  yerine)  yerine)  yerine)	red; check all Salt Biol Aqu Oxid Pre Rec Rec 37) Thi Oth	that app Crust (B tic Crust Justic Inve drogen Si dized Rh sence of tent Iron on Muck ter (Explant 2	ly) (B12) ertebrates ulfide Odoi izospheres Reduced I Reduction Surface (Ci ain in Rema	(B13) r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6)  Wetland Hy	Secondary Wate Sedin Drift X Draina Dry-S Crayfi Satur Shalk	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)

Arid West Region

Wetlands data compiled using Electronic Data Solutions' Everglade" wetland delineation software.

Project/Site: La Plata County Airport	City/County: <u>La Plata</u>	Sampling Date: 09/25/2014
Applicant/Owner: La Plata County/City of Durang	go State: CO	Sampling Point: 1m
Investigator(s): Ryan Unterreiner Section,	Township, Range: Sec.30, T34N, R	<u>ws</u>
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, n	none): <u>concave</u> Slope (%): <u>1</u>
Subregion (LRR): Interior Deserts (LRR D)	Lat: 10.00000000 Long: 10.00000	0000 Datum: WGS84
Soil Map Unit Name: Falfa clay loam, 3-8%	NWI classification: PEM	
Are climatic/hydrologic conditions on the site typ	ical for this time of year? Yes	(if no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signi	ficantly disturbed? Are	"Normal Circumstances" present? Yes
Are Vegetation, Soil, or Hydrology natu	rally problematic? (if ne	eeded, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes
Hydric Soil Present? Yes
Wetland Hydrology Present? Yes

Is the Sampled Area within a Wetland? Yes

Remarks: This is a man-made, stormwater detention basin with a controlled outlet. Area recieves stormwater runoff from airport facilities, including parking areas, runways, commercial and private aviation facilities. Abrupt transition to upland with steep sideslopes.

VEGETATION - Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>0</u> )  1.  2.  3,  4.  Total Cover = <u>0</u>	Absolute % Cover	Dominant Species?	Indicator Status	Total Number of Dominant Species Across All Strata: 2	(B)
Sapling/Shrub Stratum (Plot size: 0 )  1. Salix exigua	10	Yes	FACW		00 (A/B)
2. 3. 4. 5. Total Cover = <u>10</u>				Prevalence Index worksheet	0
Herb Stratum (Plot size: 0 )  1. Typha latifolia  2. Agrostis gigantea  3. Glyceria striata  4. Juncus balticus  5.  6.  7.  8.  Total Cover = 100	.70 15 10 5	Yes No No No	OBL FACW OBL FACW	FAC species $\underline{0}$ $\times 3 = \underline{0}$ FACU species $\underline{0}$ $\times 4 = \underline{0}$ UPL species $\underline{0}$ $\times 5 = \underline{0}$	
Woody Vine Stratum (Plot size: 0 )  1. 2.  Total Cover ≈ 0  % Bare Ground in Herb Stratum: 0  % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators:  X Dominance Test is >50%  X Prevalence Index is ≤ 3.0¹  X Morphological Adaptations¹ (Provide data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation  Indicators of hydric soil and wetland hydroust be present, unless disturbed or prolematic be present.	<sup>1</sup> (Explain) frology
Remarks: Abrupt transition to upland species, including				Hydrophytic Vegetation Present? Yes	

Wetlands data compiled using Electronic Data Solutions' Everglade" wetland delineation software.

onic Descri	Mat		An necucu to	Redox Fe		101 01 00	nfirm the absen	o or major	
2.00	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture		Remarks
inches)	7 70/2 / /2		EVE A CE	200		- 0.	Pre57 356		
12	7.5YR4/3	<u>80</u>	<u>5YR4/6</u>	20	<u>C</u>	M	Clay Loam		
Type: C=Co	oncentration, D	=Depletion,	RM=Reduced	Matrix, CS	Covered o	or Coated	Sand Grains, *L	ocation: PL	=Pore Lining, M=Matrix
lydric Soil I	Indicators: (App	licable to al	II LRRs, unless	otherwise	noted.)			Indicat	ors for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)			Sandy	Redox (S5)			10	m Muck (A9) (LRR C)
Histic E	pipedon (A2)			Strippe	d Matrix (S	66)		20	m Muck (A10) (LRRB)
Black Hi	istic (A3)		2	X Loamy	Mucky Min	eral (F1)		Re	duced Vertic (F18)
Hydroge	en Sulfide (A4)			Loamy	Gleyed Ma	trix (F2)		X Re	d Parent Material (TF2)
Stratifie	d Layers (A5) (Li	RR C)		Deplete	d Matrix (	F3)		Ot	her (Explain in Remarks)
	uck (A9) (LRR D)			Redox I	Dark Surfac	e (F6)		1 7 6	The British Park Control of the Cont
	d Below Dark Su				d Dark Sui				
	ark Surface (A12			- W	Depression	7-2-1		Indica	itors of hydrophytic vegetation and
	Aucky Mineral (S				Pools (F9)			1000000	id hydrology must be present, unless
	leyed Matrix (S		-	a citien	3912 (13)			100000	ped or problematic.
	Layer (if present		-					,	and and the destroya
Type:	eayer (ii present	4.						1.15	
Depth (inc	thes): 0							Hydric	Soil Present? Yes
Remarks:									
	Y								
YDROLOG Wetland Hy	drology Indicate			a					
YDROLOG Wetland Hy Primary Indi	drology Indicate cators (minimum								y Indicators (two or more required)
YDROLOG Wetland Hy Primary Indi X Surface V	drology Indicate cators (minimum Water (A1)		_s	alt Crust (E	11)			Wate	er Marks (B1) (Riverine)
YDROLOG Wetland Hy Primary Indi X Surface V High Wa	drology Indicate cators (minimus Water (A1) ster Table (A2)		s s	alt Crust (E iotic Crust	(B12)			Wate	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
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Project/Site: La Plata County Airport	City/County: La Plata	Sampling Date: <u>08/27/2014</u>	
Applicant/Owner: La Plata County/City of	Durango State: C	O Sampling Point: 2f	
nvestigator(s): Ryan Unterreiner	Section, Township, Range: Sec.29,	34N, R8W	
andform (hillslope, terrace, etc.): Drainag	geway Local relief (concave, co	nvex, none): <u>concave</u> Slope (%): <u>1</u>	
subregion (LRR): Interior Deserts (LRR D)	Lat: 2.00000000 Long: 2.0	0000000 Datum: WGS84	
oil Map Unit Name: Falfa Clay Loam, 3-8	NWI classification: PEM		
Are climatic/hydrologic conditions on the	site typical for this time of year? _	(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" present? Yes	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(if needed, explain any answers in Remarks.)	
Hydrophytic Vegetation Present?	e map showing sampling point Yes Yes	locations, transects, important features, etc.  Is the Sampled Area within a Wetland? Yes	
Remarks: Slightly unusual depressional a	rea with a less defined wetland bo	undary, as compared to elsewhere along the drainage.	
inamatina ang my anasas sagrasas ana		1)	

VEGETATION - Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: 0 )  1.  2.  3.  4.  Total Cover = 0	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata:	1(A) 1 (B)
Sapling/Shrub Stratum (Plot size: 0 ) 1.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
2. 3. 4. 5. Total Cover = 0				OBL species 0 x1	
Herb Stratum (Plot size: 0_)  1, Calamagrostis canadensis  2.  3.  4.  5.  6.  7.  8.  Total Cover = 80	<u>80</u>	Yes	FACW	FACW species 80 x 2 FAC species 0 x 3 FACU species 0 x 4 UPL species 0 x 5 Column Totals: 80 (A)  Prevalence Index = B/A = 2.00	= 0
Woody Vine Stratum (Plot size: 0 )  1. 2.  Total Cover ≈ 0  % Bare Ground in Herb Stratum: 20  % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators  X Dominance Test is >50% X Prevalence Index is ≤ 3.0° X Morphological Adaptations¹ data in Remarks or on a separate Problematic Hydrophytic Ve  Indicators of hydric soil and wet must be present, unless disturbe	(Provide supporting sheet) getation <sup>1</sup> (Explain) land hydrology
Remarks: Monoculture of bluejoint just away from th				Hydrophytic Vegetation Present	7 <u>Yes</u>

Wetlands data compiled using Electronic Data Solutions' Everglade™ wetland delineation software.

ofile Description: (Describe to Matrix	o the depth need	ded to document Redox F	A STATE OF THE STA	tor or co	nfirm the absence	ce of indicators.)
Depth Color (moist)	% Color (		Type <sup>1</sup>	Loc2	Texture	Remarks
inches)			1000			1,
0-12 10YR 5/2	80 <u>5YR</u>	4/6 20	<u>C</u>	<u>PL</u>	Silt Loam	
Type: C=Concentration, D=D:	epletion, RM=Re	duced Matrix, CS	=Covered o	or Coated	Sand Grains L	ocation; PL=Pore Lining, M=Matrix
lydric Soil Indicators: (Applic	able to all I RRs	unlass otherwise	noted )	14 14		Indicators for Problematic Hydric Soils <sup>3</sup> :
NO DESCRIPTION OF THE	able to all Enroy			_		
Histosol (A1)			Redox (S5)			1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)			d Matrix (S	120 - 120 - 121		2 cm Muck (A10) (LRR B)
Black Histic (A3)			Mucky Mir	100		Reduced Vertic (F18)
Hydrogen Sulfide (A4)			Gleyed Ma			Red Parent Material (TF2)
Stratified Layers (A5) (LRR	(1)	X Deplete		200		Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	TOTAL STREET		Dark Surfac			
Depleted Below Dark Surfa	ace (A11)		ed Dark Su	200		AND IN COLUMN AND AND AND AND AND AND AND AND AND AN
Thick Dark Surface (A12)			Depression			Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		Vernal	Pools (F9)			wetland hydrology must be present, unless
Sandy Gleyed Matrix (S4)						disturbed or problematic.
Restrictive Layer (if present):						
Type:						hara e ne constant
Depth (inches): 0						Hydric Soil Present? Yes
ATT A PERSON NAMED IN COLUMN TO THE OWNER OF THE OWNER	,					
Wetland Hydrology Indicators		check all that app	oly)			Secondary Indicators (two or more required)
Wetland Hydrology Indicators						Secondary Indicators (two or more required)  Water Marks (B1) (Riverine)
Wetland Hydrology Indicators Primary Indicators (minimum oSurface Water (A1)		Salt Crust (f	311)			Secondary Indicators (two or more required)  — Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Netland Hydrology Indicators Primary Indicators (minimum oSurface Water (A1)High Water Table (A2)		Salt Crust (f	311) (B12)	(B13)		Water Marks (B1) (Riverine)
Netland Hydrology Indicators Primary Indicators (minimum oSurface Water (A1)High Water Table (A2)	of one required; o	Salt Crust (f Biotic Crust Aquatic Inv	B11) (B12) ertebrates	2.0		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive	of one required; of	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S	311) (B12) ertebrates ulfide Odo	r (C1)	ving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (N	of one required; o erine) onriverine)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres	r (C1) along Liv	ving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (N) Drift Deposits (B3) (Nonrive	of one required; o erine) onriverine)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres Reduced I	r (C1) along Liv ron (C4)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Netland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6)	of one required; of erine) onriverine) verine)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	311) (B12) ertebrates ulfide Odo izospheres Reduced I Reduction	r (C1) along Liv ron (C4) in Tilled		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria	of one required; of one required; of one required; on riverine) werine)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C	r (C1) along Liv ron (C4) in Tilled 7)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria	of one required; of one required; of one required; on riverine) werine)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C	r (C1) along Liv ron (C4) in Tilled 7)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations:	of one required; of one required; of one required; on riverine) werine) al Imagery (87)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C	r (C1) along Liv ron (C4) in Tilled 7)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present?	of one required; of one	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C	r (C1) along Liv ron (C4) in Tilled 7)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Vetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) inundation Visible on Aeria Water-Stained Leaves (B9) Veter Table Present?	erine) converine) derine)	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C	r (C1) along Liv ron (C4) in Tilled 7)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Netland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Nater Table Present?	of one required; of one required; of one required; on riverine)  All Imagery (B7)  No Depth (No Depth (Mes Dep	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B11) (B12) ertebrates ulfide Odo alzospheres Reduced I Reduction Surface (C	r (C1) s along Liv ron (C4) In Tilled 7) arks)	Soils (C6) Wetland Hy	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Netland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Nater Table Present?	of one required; of one required; of one required; on riverine)  All Imagery (B7)  No Depth (No Depth (Mes Dep	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B11) (B12) ertebrates ulfide Odo alzospheres Reduced I Reduction Surface (C	r (C1) s along Liv ron (C4) In Tilled 7) arks)	Soils (C6) Wetland Hy	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2)  X Saturation (A3)  Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria  Water-Stained Leaves (B9) Field Observations: Surface Water Present?	of one required; of one required; of one required; on riverine)  All Imagery (B7)  No Depth (No Depth (Mes Dep	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B11) (B12) ertebrates ulfide Odo alzospheres Reduced I Reduction Surface (C	r (C1) s along Liv ron (C4) In Tilled 7) arks)	Soils (C6) Wetland Hy	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Signification Present?	erine) onriverine) verine) al Imagery (B7) No Depth (in	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl inches): inches): inches): inches):	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C) ain in Remi	r (C1) calong Liv ron (C4) in Tilled 7) arks)	Wetland Hypections), if avail	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present?	erine) onriverine) verine) al Imagery (B7) No Depth (in	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl inches): inches): inches): inches):	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C) ain in Remi	r (C1) calong Liv ron (C4) in Tilled 7) arks)	Wetland Hypections), if avail	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Signification Present?	erine) onriverine) verine) al Imagery (B7) No Depth (in	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl inches): inches): inches): inches):	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C) ain in Remi	r (C1) calong Liv ron (C4) in Tilled 7) arks)	Wetland Hypections), if avail	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (streat	erine) onriverine) verine) al Imagery (B7) No Depth (in	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl inches): inches): inches): inches):	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C) ain in Remi	r (C1) calong Liv ron (C4) in Tilled 7) arks)	Wetland Hypections), if avail	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Signification Present?	erine) onriverine) verine) al Imagery (B7) No Depth (in	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl inches): inches): inches): inches):	(B12) (B12) ertebrates ulfide Odo nizospheres Reduced I Reduction Surface (C) ain in Remi	r (C1) calong Liv ron (C4) in Tilled 7) arks)	Wetland Hypections), if avail	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) HAC-Neutral Test (D5)

Project/Site: La Plata County Airport	City/County: La Plata		Sampling Da	te: <u>08/27/2014</u>	
Applicant/Owner: La Plata County/City of I	Durango State	e: <u>CO</u>	Sar	mpling Point: 3f	
Investigator(s): Ryan Unterreiner Se	ection, Township, Range: <u>Sec.2</u>	9, T34N, R8W			
Landform (hillslope, terrace, etc.): Drainage	eway Local relief (concave,	convex, none)	concave 5	Slope (%): <u>0</u>	
Subregion (LRR): Interior Deserts (LRR D)	Lat: 1.00000000 Long:	1.00000000	Datum: WGS	84	
Soil Map Unit Name: Falfa Clay Loam, 3-8%	NWI classification: PEM				
Are climatic/hydrologic conditions on the s	ite typical for this time of year	? Yes	(if no, explain	n in Remarks.)	
Are Vegetation X, Soil, or Hydrology	significantly disturbed?	Are "Nor	mal Circumsta	inces" present? No	
Are Vegetation X , Soil, or Hydrology	_naturally problematic?	(if needed	d, explain any	answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site	map showing sampling po	int locations,	transects, in	nportant features, etc.	
	es				
	lo				
Wetland Hydrology Present? No		o option	- 1.707	tani -more ca no	
			154 86 34111	within a Wetland? No	
Remarks: Vegetation is disturbed simply of					the second of the second
actively managed and irrigated, there was hydrology removed this area from wetlan		ased this depre	essional area	to flood more regularly. Lack of hydri	ic soil or
nydrology removed this area from wetlan	d consideration.				
WESTATION III.	en tone				
VEGETATION – Use scientific names of	-	T Bourtoon	To division	Name to describe the second of the second	
Tree Stratum (Plot size: 0 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1.	3// COVE	opecies:	Status	That Are OBL, FACW, or FAC:	0(A)
5				THE PARTY OF THE PARTY OF THE PARTY	2000
2.					

Tree Stratum (Plot size: 0 ) 1.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	<u>Q</u> (A)
2. 3, 4. Total Cover = <u>0</u>				Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
Sapling/Shrub Stratum (Plot size: 0 ) 1.				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>o</u> (A/B)
2. 3. 4. 5. Total Cover = 0				OBL species 0 x1 =	
Herb Stratum (Plot size: 0 )  1. Cirsium arvense  2. Poa palustris  3.  4.  5.  6.  7.  8.  Total Cover = 80	. <u>70</u> <u>10</u>	Yes No	FACU FAC	FACW species <u>0</u> x 2 = FAC species <u>10</u> x 3 = FACU species <u>70</u> x 4 = UPL species <u>0</u> x 5 = Column Totals: <u>80</u> (A)  Prevalence Index = B/A = <u>3.88</u>	= <u>30</u> = <u>280</u>
Woody Vine Stratum (Plot size: 0 )  1. 2.  Total Cover ≈ 0  % Bare Ground in Herb Stratum: 20  % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicator Dominance Test is >50% Prevalence Index is ≤ 3.0² Morphological Adaptations¹ (supporting data in Remarks or on Problematic Hydrophytic Vegetindicators of hydric soil and wetlamust be present, unless disturbed	Provide a separate sheet) etation <sup>‡</sup> (Explain) and hydrology
Remarks: Dead cattails in this low-lying, depressional	Burn Co. Co.			Hydrophytic Vegetation Present?	

Remarks: Dead cattails in this low-lying, depressional area adjacent to the channel indicates this a potential relic wetland. Canada thistle may be more "facultative" than "facultative upland," depsite its listed indicator status in the Arid West Supplement. In the nearby Western Mountains Supplement, the wetland indicator status is "facultative." The growth habit along this drainage would suggest this to be true here.

Wetlands data compiled using Electronic Data Solutions' Everglade™ wetland delineation software.

	Mat		Hetrarous.	Redox Fe			3 M 3 M 5 M 7 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2	nce of indicators.)
A	or (moist)	%	Color (moist)	%	Type1	Loc2	Texture	Remarks
thes)	Las (45)	20	U	South	154	0.0	1.00	
14 1	OYR 4/3	85	7.5YR 5/8	<u>15</u>	<u>C</u>	M	Loam	
	. 1							
ype: C=Conc	entration, Da	=Depletion, F	RM=Reduced N	Natrix, CS=	Covered o	r Coated	Sand Grains.	Location: PL=Pore Lining, M=Matrix
dric Soil Ind	icators: (App	licable to all	LRRs, unless o	therwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A		medally to all	1		Redox (S5)			1 cm Muck (A9) (LRR C)
Histic Epip	The substitute				Matrix (S			2 cm Muck (A10) (LRR B)
Black Histic			-		Mucky Mir	The sales of		Reduced Vertic (F18)
	Sulfide (A4)		-		Sleyed Ma			Red Parent Material (TF2)
	avers (A5) (L	PP C)						The state of the s
			-	-	d Matrix (	7.1.5		Other (Explain in Remarks)
	(A9) (LRR D)				ark Surfac			
	elow Dark St		-		d Dark Sui			Standard against the second of the
	Surface (A12	30	-		epression			Indicators of hydrophytic vegetation an
	ky Mineral (S		-	_ vernal F	ools (F9)			wetland hydrology must be present, unle
	red Matrix (S							disturbed or problematic.
estrictive Lay Type:	er (if presen	t):						
April 1981	e). 0							
Depth unches	51. 0							Hydric Soil Present? No
Depth (inche: emarks: Falfa		-8% is partial	ly hydric.					Hydric Soil Present? <u>No</u>
emarks: Falfa		-8% is pārtial	lly hydric,					Hydric Soil Present? <u>No</u>
emarks: Falfa	clay loam, 3		ly hydric,					Hydric Soil Present? <u>No</u>
emarks: Falfa  DROLOGY  /etland Hydro	clay loam, 3	ors:	lly hydric,	l that appl	(y)			Hydric Soil Present? <u>No</u> Secondary Indicators (two or more required
emarks: Falfa  DROLOGY  /etland Hydro	clay loam, 3-	ors:	uired; check al	I that appl				
emarks: Falfa  DROLOGY  /etland Hydro	ology Indicate ors (minimum (A1)	ors:	uired; check al		11)			Secondary indicators (two or more required
DROLOGY etland Hydro imary Indicat _Surface Wa	ology Indicate ors (minimum (A1) Table (A2)	ors:	uired; check al Sa Bio	lt Crust (B	11) (B12)	(B13)		Secondary Indicators (two or more required Water Marks (B1) (Riverine)
DROLOGY fetland Hydro fimary Indicat Surface Wa High Water Saturation	ology Indicate ors (minimum (A1) Table (A2)	ors: m of one req	uired; check al Sa Bio Ac	lt Crust (B otic Crust	11) (B12) rtebrates	7.0		Secondary Indicators (two or more required Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
PROLOGY  Portland Hydro  Finary Indicat  Surface Wa  High Water  Saturation  Water Mark	ology Indicate ors (minimum (A1) Table (A2) (A3)	ors: m of one req riverine)	uired; check al Sa Bid Ac Hy	lt Crust (B otic Crust watic Inve drogen Su	11) (B12) rtebrates ilfide Odo	(C1)	ving Roots (C3)	Secondary Indicators (two or more required Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
DROLOGY letland Hydro imary Indicat _ Surface Wa _ High Water _ Saturation ( _ Water Mark _ Sediment D	ology Indicate ors (minimum oter (A1) Table (A2) (A3) ks (B1) (None	ors: m of one req riverine) (Nonriverine	uired; check al Sa Bio Ac Hy Ox	lt Crust (B otic Crust watic Inve drogen Su	11) (B12) rtebrates ilfide Odo zospheres	r (C1) along Liv	ving Roots (C3)	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
DROLOGY letland Hydro imary Indicat Surface Wa High Water Saturation i Water Mari Sediment D Drift Depos	ology Indicate ors (minimum (A2) (A3) ks (B1) (None (B2) (its (B3) (None (B2)	ors: m of one req riverine) (Nonriverine	uired; check al Sa Bid Ac Hy Oo Pr	It Crust (B otic Crust juatic inve drogen Su didized Rhi esence of	11) (B12) rtebrates Ifide Odo zospheres Reduced I	r (C1) along Liv ron (C4)		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)
DROLOGY letland Hydro imary Indicat Surface Wa High Water Saturation of Water Mark Sediment D Drift Depos Surface Soil	ology Indicate ors (minimum ter (A1) Table (A2) (A3) ks (B1) (None peposits (B2)	ors: m of one req riverine) (Nonriverine) riverine)	uired; check alSaBidAcHyOxPriRe	It Crust (B otic Crust watic Inve drogen Su idized Rhi	11) (B12) rtebrates olfide Odo zospheres Reduced I Reduction	r (C1) along Liv ron (C4) in Tilled		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
DROLOGY  etland Hydro imary Indicat Surface Wa High Water Saturation of Water Mark Sediment D Drift Depos Surface Soil	ology Indicate ors (minimum ter (A1) Table (A2) (A3) ks (B1) (None peposits (B2) its (B3) (Non I Cracks (B6)	ors: m of one req riverine) (Nonriverine) riverine)	uired; check al	It Crust (B otic Crust quatic Inve drogen Su didized Rhi esence of cent Iron in Muck S	11) (B12) rtebrates ilfide Odo- zospheres Reduced I Reduction surface (C)	r (C1) along Livron (C4) in Tilled		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C5)
DROLOGY  (etland Hydro fimary Indicat Surface Wa High Water Saturation of Water Mari Sediment D Drift Depos Surface Soil inundation Water-Stain	ology Indicate ors (minimum iter (A1) Table (A2) (A3) ks (B1) (Non its (B3) (Non I Cracks (B6) Visible on Ae ned Leaves (B	ors: m of one req riverine) (Nonriverine) riverine)	uired; check al	It Crust (B otic Crust quatic Inve drogen Su didized Rhi esence of cent Iron	11) (B12) rtebrates ilfide Odo- zospheres Reduced I Reduction surface (C)	r (C1) along Livron (C4) in Tilled		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
DROLOGY    etland Hydro   imary Indicat   Surface Wa   High Water   Saturation     Water Mark   Sediment D   Drift Depos   Surface Soil   Inundation   Water-Stair	ology Indicate ors (minimum ter (A1) Table (A2) (A3) ks (B1) (None peposits (B2) ilts (B3) (Non I Cracks (B6) Visible on Ae ned Leaves (E	ors: m of one req riverine) (Nonriverine riverine) erial Imagery	uired; check al	It Crust (B potic Crust quatic Inve drogen Su idized Rhi esence of cent Iron hin Muck S her (Expla	11) (B12) rtebrates ilfide Odo- zospheres Reduced I Reduction surface (C)	r (C1) along Livron (C4) in Tilled		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
DROLOGY etland Hydro imary Indicat Surface Wa High Water Saturation of Water Mari Sediment D Drift Depos Surface Soil Inundation Water-Stair	ology Indicate ors (minimum (A2) (A3) (A3) (A5) (Non (A2) (A3) (Non (A3) (A3) (A3) (Non (A3) (A3) (A3) (Non (A3) (A3) (A3) (Non (A3) (A3) (A3) (A3) (Non (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3)	ors: m of one req riverine) (Nonriverine) riverine) erial imagery 39)	uired; check al  Sa Bid Ac Hy a) Pri Re (B7) Th	It Crust (B otic Crust ( nuatic Inve drogen Su didized Rhi esence of cent Iron hin Muck S her (Expla	11) (B12) rtebrates ilfide Odo- zospheres Reduced I Reduction surface (C)	r (C1) along Livron (C4) in Tilled		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
DROLOGY etland Hydro imary Indicat _ Surface Wa _ High Water _ Saturation of the control _ Orift Depos _ Surface Soil _ Inundation _ Water-Stair eld Observati fface Water Indice Water ater Table Prince Indice Ind	ology Indicate ors (minimum ter (A1) Table (A2) (A3) ks (B1) (None opposits (B2) its (B3) (None opposits (B6) Visible on Ae oned Leaves (Bions: Present?	ors: m of one req riverine) (Nonriverine) erial imagery 89) No E	uired; check al  Sa Bid Ac Hy a) Ox Pri Re (B7) Th Ot	It Crust (B otic Crust inve- juatic Inve- drogen Suidized Rhi esence of cent Iron in Muck S her (Expla	11) (B12) rtebrates ilfide Odo- zospheres Reduced I Reduction surface (C)	r (C1) along Livron (C4) in Tilled		Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
DROLOGY etland Hydro fimary Indicat Surface Wa High Water Saturation Water Mari Sediment D Drift Depos Surface Soil Inundation Water-Stair eld Observati urface Water ater Table Poturation Pres	clay loam, 3- clay loam, 3- clay loam, 3- clay loam, 3- clay load, 3- cl	ors: m of one req riverine) (Nonriverine) riverine) erial imagery 39) No I No I	uired; check al  Sa Bio Ac Hy Pr Re (B7) Th Obepth (Inches): Depth (inches):	It Crust (B otic Crust i juatic Inve drogen Su idized Rhi esence of cent Iron nin Muck S her (Expla	11) (B12) rtebrates olfide Odo zospheres Reduced I Reduction surface (C:	r (C1) : along Liv ron (C4) in Tilled 7) arks)	Soils (C6)  Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
DROLOGY  [etland Hydro imary Indicat Surface Wa High Water Saturation Water Mari Sediment D Drift Depos Surface Soil Inundation Water-Stair eld Observati urface Water I ater Table Presidudes capilla	clay loam, 3- clay loam, 3- clay loam, 3- clay loam, 3- clay load, 3- cl	ors: m of one req riverine) (Nonriverine) riverine) erial imagery 39) No I No I	uired; check al  Sa Bio Ac Hy Pr Re (B7) Th Obepth (Inches): Depth (inches):	It Crust (B otic Crust i juatic Inve drogen Su idized Rhi esence of cent Iron nin Muck S her (Expla	11) (B12) rtebrates olfide Odo zospheres Reduced I Reduction surface (C:	r (C1) : along Liv ron (C4) in Tilled 7) arks)	Soils (C6)	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
DROLOGY  etland Hydro imary Indicat Surface Wa High Water Saturation of Sediment D Drift Depos Surface Soil Inundation Water-Stair eld Observation face Water Indicate Potential Presidudes capilla	clay loam, 3- cl	ors: m of one req riverine) (Nonriverine) erial imagery 39) No E No E	uired; check al  Sa Bid Ac Hy O Pr Re (B7) Th Oepth (Inches): Depth (inches): Depth (inches):	It Crust (B otic Crust i juatic Inve drogen Su idized Rhi esence of cent Iron in Muck S her (Expla	11) (B12) rtebrates ulfide Odo zospheres Reduced I Reduction Surface (C) in in Remai	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6)  Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
DROLOGY  etland Hydro imary Indicat Surface Wa High Water Saturation of Sediment D Drift Depos Surface Soil Inundation Water-Stair eld Observation face Water Indicate Potential Presidudes capilla	clay loam, 3- cl	ors: m of one req riverine) (Nonriverine) erial imagery 39) No E No E	uired; check al  Sa Bio Ac Hy Pr Re (B7) Th Obepth (Inches): Depth (inches):	It Crust (B otic Crust i juatic Inve drogen Su idized Rhi esence of cent Iron in Muck S her (Expla	11) (B12) rtebrates ulfide Odo zospheres Reduced I Reduction Surface (C) in in Remai	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6)  Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
PROLOGY  Petland Hydro Imary Indicat Surface Wa High Water Saturation Water Mari Sediment D Drift Depos Surface Soil Inundation Water-Stair eld Observati urface Water I later Table Pro aturation Pres includes capilla escribe Recon	clay loam, 3- cl	ors: m of one req riverine) (Nonriverine) erial imagery 39) No E No E	uired; check al  Sa Bid Ac Hy O Pr Re (B7) Th Oepth (Inches): Depth (inches): Depth (inches):	It Crust (B otic Crust i juatic Inve drogen Su idized Rhi esence of cent Iron in Muck S her (Expla	11) (B12) rtebrates ulfide Odo zospheres Reduced I Reduction Surface (C) in in Remai	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6)  Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
DROLOGY  letland Hydro imary Indicat Surface Wa High Water Saturation of the Mark Sediment D Drift Depos Surface Soil Inundation Water-Stair eld Observati urface Water I ater Table Pro ituration Press includes capilla escribe Recon	clay loam, 3- cl	ors: m of one req riverine) (Nonriverine) erial imagery 39) No E No E	uired; check al  Sa Bid Ac Hy O Pr Re (B7) Th Oepth (Inches): Depth (inches): Depth (inches):	It Crust (B otic Crust i juatic Inve drogen Su idized Rhi esence of cent Iron in Muck S her (Expla	11) (B12) rtebrates ulfide Odo zospheres Reduced I Reduction Surface (C) in in Remai	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6)  Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

And West Region

Wetlands data compiled using Electronic Data Solutions' Everglade" wetland delineation software.

City/County: La Plata	San	npling Date: <u>08/27/2014</u>	
f Durango Stat	te: <u>CO</u>	Sampling Point: 4f	
Section, Township, Range:			
geway Local relief (concave	convex, none): con	ncave Slope (%): 1	
Lat: 4.00000000 Long:	4.00000000 Dat	um: WGS84	
cation: pem			
site typical for this time of year	? Yes (If r	no, explain in Remarks.)	
significantly disturbed?	Are "Normal	Circumstances" present? Yes	
naturally problematic?	(if needed, ex	(plain any answers in Remarks.)	
e map showing sampling po Yes Yes			
_			
	Section, Township, Range:  geway Local relief (concave Lat: 4.00000000 Long: cation: pem esite typical for this time of year significantly disturbed? naturally problematic?  te map showing sampling po	Section, Township, Range:  geway Local relief (concave, convex, none): co Lat: 4.00000000 Long: 4.00000000 Dat  cation: pem : site typical for this time of year? Yes (If needed, externally problematic? (if needed, external showing sampling point locations, training the same of years)  te map showing sampling point locations, training yes  Yes	Section, Township, Range:  geway Local relief (concave, convex, none): concave Slope (%): 1  Lat: 4.00000000 Long: 4.00000000 Datum: WGS84  cation: pem  site typical for this time of year? Yes (If no, explain in Remarks.)  significantly disturbed? Are "Normal Circumstances" present? Yes  naturally problematic? (if needed, explain any answers in Remarks.)  te map showing sampling point locations, transects, important features, etc.  Yes

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 0 )  1. 2. 3, 4.  Total Cover = 0  Sapling/Shrub Stratum (Plot size: 0 )  1.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:  O(A)  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  O(A/B)
2. 3. 4. 5. Total Cover = 0				Prevalence Index worksheet
Herb Stratum (Plot size: 0 )  1. Cirsium arvense  2.  3.  4.  5.  6.  7.  8.  Total Cover = 90	90	Yes	FACU	FACW species
Woody Vine Stratum (Plot size: 0 )  1. 2.  Total Cover ≈ 0  % Bare Ground in Herb Stratum: 10 % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators:  Dominance Test is > 50% Prevalence Index is ≤ 3.0¹ X_ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)  Hindicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Remarks: Dead cattails in this low-lying, depressional				Hydrophytic Vegetation Present? Yes

Remarks: Dead cattails in this low-lying, depressional area adjacent to the channel indicates this a potential relic wetland. Canada thistle may be more "facultative" than "facultative upland," depsite its listed indicator status in the Arid West Supplement. In the nearby Western Mountains Supplement, the wetland indicator status is "facultative." The growth habit along this drainage would suggest this to be true here. Therefore, vegetation is assumed to be hydric for this reason.

Wetlands data compiled using Electronic Data Solutions' Everylade" wetland delineation software.

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains   **Location: PL=Pore Lining, M=Matrix   Variety   Varie	epth	Color (moist)	rix %	Color (mo	Redox Fe	Type <sup>1</sup>	Loc2	Texture	Remarks
ype: C-Concentration. D-Depletion, RM=Reduced Matrix, CS-Covered or Coated Sand GrainsLocation: PL=Pore Lining, M=Matrix (rdrix Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Color (Hibist)	.70	Color (inc	20	Abe	LOC	rexture	Remarks
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Histosol (A2)  Histosol (A2)  Histosol (A3)  Sandy Redox (S5)  Slack Histo (A3)  Lydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Stratified tayers (A5) (LRR C)  Loamy Mucky Mineral (F1)  Loamy Gleyed Matrix (F2)  Stratified tayers (A5) (LRR C)  Loamy Mark Surface (F6)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Water Marks (S6)  Conditionally Gleyed Matrix (S6)  Depth (inches):	) <u>-12</u>	10YR 4/2	<u>80</u>	7.5YR 5	/8 20	<u>C</u>	M	<u>Loam</u>	
Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Secondary Indicators of hydrophytic vegetation and wetland hydrology Indicators of	ype: C=	-Concentration, D	=Depletion	n, RM≃Redu	ced Matrix, CS	=Covered o	or Coated	Sand Grains.	Location: PL=Pore Lining, M=Matrix
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Lydrogen Sulfide (A4) Lydrogen Sulfide (A5) Loamy Mucky Mineral (F1) Lydrogen Sulfide (A6) Loamy Mucky Mineral (F2) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F2) Stratified Layers (A5) (LRR D) Redox Dark Surface (F6) Depleted Bed Bow Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (If present): Vernal Pools (F9) Wethand Hydrology Indicators: Indicators of hydrophytic vegetation and wetland hydrology must be present, unles disturbed or problematic.  Strictive Layer (If present): Vpet:	dric So	oil Indicators: (App	licable to	all LRRs, un	less otherwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :
Depth (inches): 0 Hydric Soil Present? Yes  PROLOGY  etland Hydrology Indicators: Imary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B12)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Montal Middle Sediment Crop  Sediment Deposits (B3) (Nonriverine)  Mater Stained Leaves (B4)  Sediment Deposits (B3) (Nonriverine)  Sediment Deposits (B3) (Nonriverine)  Montal Middle Sediment Crop  Sediment Deposits (B3) (Riverine)  Sediment Deposits (B3) (	Histic Black Hydro Strati 1 cm Deple Thick	c Epipedon (A2) Histic (A3) ogen Sulfide (A4) fied Layers (A5) (U Muck (A9) (LRR D) eted Below Dark Su Dark Surface (A12 y Mucky Mineral (S	urface (A1: ) S1)	1)	Strippe Loamy LoamyX Deplete Redox Deplete Redox	d Matrix (S Mucky Mir Gleyed Ma d Matrix (F Dark Surfac ed Dark Sur Depression	6) trix (F2) (F3) (e (F6) face (F7) (F8)		2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) Indicators of hydrophytic vegetation an wetland hydrology must be present, unl
PROLOGY    Set   Surface Water (A1)					-				
Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Riverine)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Sediment Deposits (B3) (Riverine)  X Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  X Saturation Visible on Aerial Imagery (B7)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Thin Muck Surface (C7)  Other (Explain in Remarks)  FAC-Neutral Test (D5)  Water Table Present?  No Depth (inches):  Vater Table Present?  No Depth (inches):	Restrictiv Type:	ve Layer (if present							I chest was
	estrictiv Type: Depth ( emarks:	ve Layer (if present inches): <u>0</u>	r):						I chest was
urface Water Present? No Depth (inches): //ater Table Present? No Depth (inches): aturation Present? No Depth (inches): includes capillary fringe)  wetland Hydrology Present? Yes escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Restrictiv Type: Depth ( Jemarks:  DROLO Jetland I	ve Layer (if present inches): 0  OGY  Hydrology Indicator indicators (minimum	t): ors:	equired; che					Hydric Soil Present? <u>Yes</u> Secondary Indicators (two or more required
	PROLO  Primary Ir  Surfac  High \ Satura  Wate  Sedim  Drift E  Surfac  Inund	ogy Hydrology Indicate dicators (minimum e Water (A1) Water Table (A2) ation (A3) r Marks (B1) (None nent Deposits (B2) Deposits (B3) (None ce Soil Cracks (B6) ation Visible on Ae	ors: m of one n (Nonriver riverine) enal Image	ine)	Salt Crust (f Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck	(B12) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	r (C1) along Liv ron (C4) in Tilled :		Secondary Indicators (two or more required Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) X Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) X Saturation Visible on Aerial Imagery (C5) Shallow Aquitard (D3)
emarks:	PROLO	DGY Hydrology Indicate dicators (minimum ce Water (A1) Water Table (A2) ation (A3) If Marks (B1) (Nonce Soil Cracks (B6) lation Visible on Aer-Stained Leaves (Bervations: Vater Present? the Present? capillary fringe)	ors: m of one n (Nonriver riverine) erial Image 39) No No No	ine) ery (87)  Depth (inc Depth (inc	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S X Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B12) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	r (C1) along Liv ron (C4) in Tilled : 7) arks)	Soils (C6) Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  X Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  X Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
	PROLO PROLO PROLO Pettand I Frimary Ir Surfac High V Satura Vates Surfac Inund Wates Iridac Water Iridac Water Iridac Water Tal aturation Includes	DGY Hydrology Indicate dicators (minimum ce Water (A1) Water Table (A2) ation (A3) If Marks (B1) (Nonce Soil Cracks (B6) lation Visible on Aer-Stained Leaves (Bervations: Vater Present? the Present? capillary fringe)	ors: m of one n (Nonriver riverine) erial Image 39) No No No	ine) ery (87)  Depth (inc Depth (inc	Salt Crust (f Biotic Crust Aquatic Inv. Hydrogen S X Oxidized Rh Presence of Recent Iron Thin Muck Other (Expl	(B12) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	r (C1) along Liv ron (C4) in Tilled : 7) arks)	Soils (C6) Wetland H	Secondary Indicators (two or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  X Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  X Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

And West Region

Wetlands data compiled using Electronic Data Solutions' Everglade™ wetland delineation software.

Project/Site: La Plata County Airport	City/County: La Plata		Sampling Date:	08/27/2014	
Applicant/Owner: La Plata County/City of I	<u>Durango</u> Stat	e: <u>CO</u>	Samp	ling Point: <u>Sf</u>	
nvestigator(s): Rvan Unterreiner Se	ection, Township, Range: <u>Sec.2</u>	9, T34N, R8W			
Landform (hillslope, terrace, etc.): Stream t	errace Local relief	(concave, conv	ex, none): conv	ex Slope (%)): 3	
Subregion (LRR): Interior Deserts (LRR D)	Lat: 5.00000000 Long:	5.00000000	Datum: WGS84		
soil Map Unit Name: Falfa clay loam, 3-8%	NWI classification: PEM	1000			
Are climatic/hydrologic conditions on the s	ite typical for this time of year	? Yes	(if no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology	_significantly disturbed?	Are "Norn	nal Circumstano	es" present? Yes	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(if needed	, explain any ar	iswers in Remarks.)	
SUMMARY OF FINDINGS - Attach site	map showing sampling po	int locations,	transects, imp	ortant features, etc.	
	es				
Hydric Soil Present? Y	es				
Wetland Hydrology Present? Yes		S GAZIG	E-1075.7.3	and - new carry	
		Is the S	ampled Area w	ithin a Wetland? Yes	
Remarks: A high terrace/wet meadow adj	acent to the drainage.				
<u></u>		-			
POTATION III III III	ruitaina				
VEGETATION – Use scientific names of	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 0 )	% Cover	Species?	March 62.3	Number of Dominant Species	
1	3// Cover	opecies:	75.00.00	That Are OBL, FACW, or FAC:	2(A)
2.		-		THE SELL TOWN OF THE	±1/-/
3				Total Number of Dominant	

Tree Stratum (Plot size: 0 ) 1.	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2(A)	
2. 3, 4. Total Cover = <u>0</u>				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
Sapling/Shrub Stratum (Plot size: 0 ) 1.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
2. 3. 4. 5. Total Cover = 0				OBL species 0 x1 =	-
Herb Stratum (Plot size: 0 )  1, Juncus balticus  2. Panicum vilgatum  3. Asclepias speciosa  4. Epilobium ciliatum  5. Poa palustris  6.  7.  8.  Total Cover = 88	40 30 3 10 5	Yes Yes No No No	FACW FACW FAC FACW FAC	FACW species <u>80</u> x 2 = FAC species <u>8</u> x 3 = FACU species <u>0</u> x 4 = UPL species <u>0</u> x 5 = Column Totals: <u>88</u> (A)  Prevalence Index = B/A = <u>2.09</u>	24 0
Woody Vine Stratum (Plot size: 0 )  1. 2.  Total Cover = 0  % Bare Ground in Herb Stratum: 12 % Cover of Biotic Crust: 0				Hydrophytic Vegetation Indicators X Dominance Test is >50% X Prevalence Index is ≤ 3.0° X Morphological Adaptations¹ (P data in Remarks or on a separate s Problematic Hydrophytic Vegetation in the separate sepa	rovide supporting heet) station <sup>1</sup> (Explain) nd hydrology
	الظرا			Hydrophytic Vegetation Present?	Yes
Remarks:					

Wetlands data compiled using Electronic Data Solutions' Everglade™ wetland delineation software.

epth	Color (moist)	%	Color (mo	oist) %	Type1	Loc2	Texture		Remarks	
nches)	Secretary Infrastructure			200	7,10	044.1	14,114,14			
) <u>-14</u>	10YR 3/2	95	7.5YR 4	/6 5	C	<u>PĹ</u>	<u>Loam</u>			
			17 2		1 111 17	or Coated	Sand Grains. *		Pore Lining, M=Matrix	
	il Indicators: (App	olicable to	all LRRs, un		- report			_	ors for Problematic Hydric Soils <sup>a</sup> :	
	isol (A1)			The second second second second	Redox (S5)				m Muck (A9) (LRR C)	
	Epipedon (A2)				ed Matrix (S				m Muck (A10) (LRR B)	
	Histic (A3)				Mucky Mir			Reduced Vertic (F18)		
	ogen Sulfide (A4)			1 To 7 To 7	Gleyed Ma				d Parent Material (TF2)	
Strati	fied Layers (A5) (L	RR C)		X Deplet	ed Matrix (I	F3)		Oti	ner (Explain in Remarks)	
10.000	Muck (A9) (LRR D)			1	Dark Surface					
Deple	ted Below Dark St	urface (A1	1)		ed Dark Su					
Thick	Dark Surface (A12	2)		Redox	Depression	is (F8)		Indica	tors of hydrophytic vegetation and	
Sandy	Mucky Mineral (	51)		Verna	Pools (F9)			wetlan	d hydrology must be present, unless	
Sandy	Gleyed Matrix (S	4)						disturb	ed or problematic.	
Restrictiv Type:	e Layer (if presen	+1.								
Depth (i	inches): <u>O</u> Falfa clay loam, 3		tially hydric					Hydric	Soil Present? <u>Yes</u>	
Depth (i	inches): <u>0</u> Falfa clay loam, 3	-8% is par	tially hydric					Hydric	Soil Present? <u>Yes</u>	
Depth (i Remarks: /DROLO /etland I	inches): <u>0</u> Falfa clay loam, 3 OGY Hydrology Indicat	-8% is pari		sek all that an	n(v)					
Depth (i Remarks: YDROLO Vetland I	inches): <u>0</u> Falfa clay loam, 3  OGY Hydrology Indicated indicators (minimum	-8% is pari						Secondary	Indicators (two or more required)	
Pepth (i Remarks: YDROLO Vetland i Surfac	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicated the companies of the compa	-8% is pari		Salt Crust (	B11)			SecondaryWate	Indicators (two or more required) r Marks (B1) (Riverine)	
Pepth (i Remarks: YDROLO Vetland I Surfac High V	Falfa clay loam, 3  FGY  Hydrology Indicated (A1)  Water Table (A2)	-8% is pari		Salt Crust ( Biotic Crus	B11) t (B12)	(\$13)		Secondary Wate	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)	
Pepth (i Remarks: YDROLO Vetland I Surfac High V	Falfa clay loam, 3  FGY Hydrology Indicated (A1) Water Table (A2) ation (A3)	ors:		Salt Crust ( Biotic Crus Aquatic Inv	B11) t (B12) vertebrates			Secondary Wate Sedin	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)	
YDROLO Vetland I Surfac High V Satura Water	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicated indicators (minimulated Water (A1)  Water Table (A2) ation (A3)  r Marks (B1) (None	ors: m of one r	equired; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen !	B11) t (B12) vertebrates Sulfide Odo	r (C1)	ving Roots (C3)	Secondary Wate Sedin Drift Drain	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)	
YDROLO Vetland I Surfac High V Satura Vetland Satura	Falfa clay loam, 3  FGY Hydrology Indicated (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonient Deposits (B2)	ors: m of one r (Nonriver	equired; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen : X Oxidized Rl	B11) t (B12) vertebrates Sulfide Odo nizospheres	r (C1) along Liv	ring Roots (C3)	Secondary Wate Sedin Drift Drain Dry-S	r Indicators (two or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) eason Water Table (C2)	
YDROLO Vetland I Surfac High V Satura Water Sedim Drift E	Falfa clay loam, 3  FGY Hydrology Indicated (A1) Water Table (A2) ation (A3) or Marks (B1) (Nominent Deposits (B2) Deposits (B3) (Nominent Deposits (B3)	ors: m of one r (Nonriver	equired; che	Salt Crust ( Biotic Crus Aquatic inv Hydrogen: X Oxidized Ri Presence o	B11) t (B12) vertebrates Sulfide Odo nizospheres f Reduced I	r (C1) along Liv ron (C4)		Secondary Wate Sedin Drift Drain Dry-S Crayfi	r Indicators (two or more required) r Marks (B1) ( <b>Riverine</b> ) nent Deposits (B2) ( <b>Riverine</b> ) Deposits (B3) ( <b>Riverine</b> ) age Patterns (B10) eason Water Table (C2) ish Burrows (C8)	
OPOLO Vetland I rimary In Surfac High V Satura Water Sedim Drift E Surfac	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicate dicators (minimulate Water (A1)  Water Table (A2) ation (A3)  r Marks (B1) (Noniment Deposits (B2) Deposits (B3) (Nonimer Soil Cracks (B6)	ors: m of one r (Nonriver inverine)	equired; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen: X Oxidized Ri Presence o	B11) t (B12) vertebrates sulfide Odo nizospheres f Reduced I n Reduction	r (C1) along Liv ron (C4) in Tilled		Secondary Wate Sedin Drift Drain Dry-S Crayfi	r Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)	
/DROLO /OROLO /O	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicated indicators (minimulated water (A1)  Water Table (A2) ation (A3)  of Marks (B1) (Noniment Deposits (B2) (Deposits (B3)) (Nonime Soil Cracks (B6) ation Visible on As	ors: m of one r (Nonriver inverine)	equired; che	Salt Crust ( Biotic Crus Aquatic inv Hydrogen: X Oxidized Ri Presence o Recent Iro	B11) t (B12) vertebrates Sulfide Odo nizospheres f Reduced I n Reduction c Surface (C)	r (C1) along Liv ron (C4) in Tilled 7)		Secondary Wate Sedin Drift Drain Dry-S Crayfi Satur	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
Popth (in Remarks:  Popto Vetland I rimary In Surface High Values Sedim Drift E Surface Inundated	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicated indicators (minimulated indicators (minimulated indicators (A))  Water Table (A2)  Stion (A3)  F Marks (B1) (Nonited indicators (B2)  Deposits (B3) (Nonited indicators (B3))  Peposits (B3) (Nonited indicators (B3))  Reposits (B3) (Nonited indicators (B3))	ors: m of one r (Nonriver inverine)	equired; che	Salt Crust ( Biotic Crus Aquatic inv Hydrogen: X Oxidized Ri Presence o Recent Iro	B11) t (B12) vertebrates sulfide Odo nizospheres f Reduced I n Reduction	r (C1) along Liv ron (C4) in Tilled 7)		Secondary Wate Sedin Drift Drain Dry-S Crayfi Satur	r Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)	
Popth (in Remarks:  Popth	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicated indicators (minimum of Water (A1)  Water Table (A2) ation (A3)  of Marks (B1) (Nominent Deposits (B2) (Deposits (B3) (Nonice Soil Cracks (B6) ation Visible on Astro-Stained Leaves (Fervations:	ors: m of one r (Nonriver inverine) erial Image	required; che	Salt Crust ( Biotic Crus Aquatic Int Hydrogen: X. Oxidized RI Presence of Recent Iron Thin Muck Other (Exp	B11) t (B12) vertebrates Sulfide Odo nizospheres f Reduced I n Reduction c Surface (C)	r (C1) along Liv ron (C4) in Tilled 7)		Secondary Wate Sedin Drift Drain Dry-S Crayfi Satur	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
OPOLO Vetland I rimary In Surfac High V Satura Water Sedim Drift E Surfac inunda Water ield Obse	Falfa clay loam, 3  FALFA	ors: m of one r (Nonriver inverine) erial image 39)	equired; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen : X Oxidized RI Presence of Recent Iro Thin Muck Other (Exp	B11) t (B12) vertebrates Sulfide Odo nizospheres f Reduced I n Reduction c Surface (C)	r (C1) along Liv ron (C4) in Tilled 7)		Secondary Wate Sedin Drift Drain Dry-S Crayfi Satur	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
/DROLO /PROLO /Vetland I rimary In Surfac High V Satura Water Sedim Drift E Surfac Inunda Water ield Obse	Falfa clay loam, 3  Falfa clay loam, 3  OGY  Hydrology Indicated indicators (minimum of Water (A1)  Water Table (A2) ation (A3)  of Marks (B1) (Nominent Deposits (B2) (Deposits (B3) (Nonice Soil Cracks (B6) ation Visible on Astro-Stained Leaves (Fervations:	ors: m of one r (Nonriver inverine) erial Image	required; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen : X Oxidized RI Presence of Recent Iroi Thin Muck Other (Exp	B11) t (B12) vertebrates Sulfide Odo nizospheres f Reduced I n Reduction c Surface (C)	r (C1) along Liv ron (C4) in Tilled 7)		Secondary Wate Sedin Drift Drain Dry-S Crayfi Satur	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
YDROLO Vetland I Frimary In Surfac High V Satura Water Sedim Orift E Surfac Inund. Water Ield Obse	Falfa clay loam, 3  FALFA	ors: m of one r (Nonriver iriverine) erial image 89)	equired; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen : X Oxidized RI Presence of Recent Iroi Thin Muck Other (Exp	B11) t (B12) vertebrates Sulfide Odo nizospheres f Reduced I n Reduction c Surface (C)	r (C1) along Liv ron (C4) in Tilled 7)	Soils (C6)	Secondary Wate Sedin Drift Drain Dry-S Crayfi Satur	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
YDROLO Vetland I Surfac High V Satura Vater Surfac Inund. Water Water Tata	Falfa clay loam, 3  FALFA	ors: m of one r riverine) (Nonriver uriverine) erial image 89) No No No	equired; che	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen: X Oxidized Ri Presence o Recent Iro Thin Muck Other (Exp	B11) t (B12) vertebrates sulfide Odo nizospheres if Reduced I n Reduction s Surface (C)	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayfi Satur Shalle FAC-f	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
YDROLO Vetland I Primary In Surfac High V Satura Water Sedim Unific E Surfac Inunda Water Sield Obseiturface W Vater Tal Saturation includes of	Falfa clay loam, 3  FALFA	ors: m of one r riverine) (Nonriver riverine) erial image 89) No No No	Depth (inc. Depth (inc. Depth (inc.	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen: X Oxidized Ri Presence o Recent Iro Thin Muck Other (Exp	B11) t (B12) vertebrates sulfide Odo nizospheres if Reduced I n Reduction s Surface (C)	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayfi Satur Shalle FAC-f	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
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YDROLO Vetland I Primary In Surfac High V Satura Water Sedim Unific E Surfac Inunda Water Sield Obseiturface W Vater Tal Saturation includes of	Falfa clay loam, 3  Falfa clay loam, 3  Falfa clay loam, 3  Falfa clay loam, 3  Hydrology Indicate dicators (minimulate water (A1)  Water Table (A2)  ation (A3)  F Marks (B1) (Nonine Soil Cracks (B6)  ation Visible on Astrostations (Aster Present?  ation Present?  applications (Aster Present?  applications (Aster Present?  applications (Aster Present)  application	ors: m of one r riverine) (Nonriver riverine) No No No No	Depth (inc. Depth (inc. Depth (inc.	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen: X Oxidized Ri Presence o Recent Iro Thin Muck Other (Exp	B11) t (B12) vertebrates sulfide Odo nizospheres if Reduced I n Reduction s Surface (C)	r (C1) along Liv ron (C4) in Tilled 7) arks)	Soils (C6) Wetland Hy	Secondary Wate Sedin Drift Drain Crayfi Satur Shalle FAC-f	Indicators (two or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
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Avid West Region

Wetlands data compiled using Electronic Data Solutions' Everglade™ wetland delineation software.

Durango La Plata County Airport - Wetland and Waters of the U.S. Delineation Report
Appendix D: Photographs
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Photograph 1. Looking north at Wetland M, a stormwater detention basin.



Photograph 2. Looking northwest at Wetland J, a stormwater detention basin.



Photograph 3. View looking west at Wetland G.



Photograph 4. View looking north at Wetland G.



Photograph 5. View looking southeast from airport storm drain into Wetland F.



Photograph 6. View looking northeast at Wetland F



Photograph 7. View looking northeast along Wetland F boundary, dominated by Canada thistle.



Photograph 8. View looking north across excavated pond at the Wetland I boundary.



Photograph 9. Typical ditch/lateral in northeast agricultural field.



Photograph 10. Typical irrigated wetland habitat, northeast agricultural field.



Photograph 11. Typical seep wetland forming below the rim in a natural drainage.



Photograph 12. Looking upstream at Florida River, typical cross section.



Photograph 13. Looking upstream at the bench wetland east of the airport.



Photograph 14. Looking upstream at the CR 309a roadside drainage conveying irrigation return flows to the Florida River valley floor.