### Aquatic Resources Delineation Report Stanley Municipal Airport

July 2023

Moore Project No. 22710E



#### PREPARED FOR

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### **PREPARED BY**

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## **Executive Summary**

The Stanley Municipal Airport is planning to develop a crosswind runway project on the airfield located at the southwest edge of Stanley, North Dakota. The project area comprises approximately 210-acres and consists of the adjacent agricultural fields surrounding the existing Stanley Municipal Airport footprint. The project is located southwest of the city of Stanley in the south half of Section 29, southwest quarter of Section 28, northwest quarter of Section 33, Township 156 North, Range 71 West and of Mountrail County, North Dakota. Please refer to Figure 1, Project Location Map.

A Level 2 aquatic resource delineation was conducted in accordance with the 1987 Corps of Engineers Wetlands Delineation Manual, and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0). Wetland boundaries within the project area were determined by completing United States Army Corps of Engineers (USACE) Wetland Determination Data Forms for paired test hole points and observing soils, vegetation, and hydrology in the area. For any other aquatic resource delineations, USACE Regulatory Guidance Letter 05-05 was used in conjunction with the USACE Other Water form.

The field aquatic resource delineation for the proposed project was completed by Greg Meyer (Environmental Scientist) of Moore Engineering, Inc., and Hal Weiser (Professional Soil Classifier) on July 13, 2023. Numerous aquatic resources are located in the project area including several wetlands scattered throughout along the edge of the project area. Cumulatively the wetlands comprise approximately 19.12 acres. The project area comprises approximately 210 acres. Please refer to Figure 2, Delineated Aquatic Features.

Cowardin classification included:

- Palustrine, emergent, persistent, temporarily flooded (PEM1A)
- Palustrine, emergent, persistent, seasonally flooded (PEM1C)



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#### 1. Introduction and Project Location

The Stanley Municipal Airport is planning to develop a crosswind runway project on the airfield located at the southwest edge of Stanley, North Dakota. The project area comprises approximately 210-acres and consists of the adjacent agricultural fields surrounding the existing Stanley Municipal Airport footprint. The project is located southwest of the city of Stanley in the south half of Section 29, southwest quarter of Section 28, northwest quarter of Section 33, Township 156 North, Range 71 West and of Mountrail County, North Dakota. Please refer to Figure 1, Project Location Map.

The decimal degree coordinates for the center of the project area are 48.301998° N, -102.407615° W. The Airport is located on private land near Stanley, North Dakota. Should the USACE need to contact the applicant or visit the project visit, please contact Mr. Evan Barrett, 952-641-8820, <u>Evan.Barrett@meadhunt.com</u>.

The field aquatic resource delineation for the proposed project was completed by Greg Meyer (Environmental Scientist) of Moore Engineering, Inc., and Hal Weiser (Professional Soil Classifier) on July 13, 2023.

#### 2. Methods

Moore Engineering reviewed U.S. Geological Survey (USGS) topographic maps (Figure 3), U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) soil survey data (Figure 4), and U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) (Figure 5) for the project area prior to performing the aquatic resource field delineation.

2.1 Field Aquatic Resource Delineation

A Level 2 delineation was completed in accordance with the 1987 Corps of Engineers Wetlands Delineation Manual, and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2.0). The presence and extent of areas meeting wetland criteria within the study area were determined by completing USACE Wetland Determination Data Forms for paired test hole points and observing vegetation and hydrology in the area. For any other aquatic resource delineations, the USACE Regulatory Guidance Letter (RGL, No. 05-05), Ordinary High Water Mark Identification, was utilized. Potential wetland areas and other waters were examined in the entire project area according to guidelines set forth in these documents and wetland boundaries were determined through analysis of the vegetation, soils, and hydrology.

Plant species throughout the project area and at each wetland and upland test hole were identified and assigned a wetland indicator status according to the National Wetland Plant List, version 3.5 (USACE 2020). On the enclosed data forms, the plant indicator status follows the plant's scientific name unless a status has not been assigned.

According to the 1987 Manual and "Regional Supplement" cited above, the hydrophytic plant criteria are met when more than 50% of the dominant species within all vegetative strata are assigned an obligate (OBL), facultative wet (FACW), or facultative (FAC) wetland status. The wetland indicator status is provided to show the wetland affinity for each plant.

Hydric soil properties described follow Field Indicators of Hydric Soils in the United States (USDA-



NRCS 2018). Soils were examined and characterized by digging soil pits at sample points along designated transects. If the soils exhibited indicators of hydric soils per the "Field Indicators" manual cited above, they were determined to be hydric. Soil colors described herein follow Munsell Soil Color Charts.

The presence of wetland hydrology was determined through direct observation of primary and/or secondary wetland hydrology indicators. The presence of a single primary indicator such as surface water is sufficient to conclude that the wetland hydrology parameter is met. The direct observation of two or more secondary wetland hydrology indicators such as surface soil cracks or geomorphic position is required to conclude that the wetland hydrology criteria is met. Wetlands and other waters were mapped with a sub-meter accurate handheld GPS unit (Trimble R1 GNSS receiver and tablet, or similar device). USACE wetland data sheets are provided in Appendix D.

For the purposes of this delineation, areas that met wetland criteria (hydrophytic vegetation, hydric soils, wetland hydrology indicators) are identified as "Wetland".

#### 2.2 Antecedent Precipitation Analysis

Analysis of 90-day antecedent precipitation conditions for each year of imagery was conducted using the USACE Antecedent Precipitation Tool (APT). The APT identifies all weather stations that are located within a 30-mile radius from the point of interest using NOAA's Daily Global Historical Climatology Network (GHCN-Daily), which integrates climate data from over 20 sources. Each weather station is then ranked based on a weighted difference value which incorporates both the distance to the point of interest and the difference in elevation. The weather station with the lowest weighted difference value, as well as a record that is sufficient to develop the 30-year normal period and the antecedent period, is selected by the tool as the Primary Station used to develop the dataset.

The APT determines whether antecedent precipitation is normal by comparing rainfall data from the previous three months to the same three-month period over a rolling 30-year record. This method is different than the calculation of normal precipitation in the Natural Resources Conservation Service WETS tables, which use the 30-year climate normal that are maintained by NOAA and adjusted every decade.

#### 3. Existing Conditions

The Airport project area comprises approximately 210-acres and consists of the adjacent agricultural fields surrounding the existing Stanley Municipal Airport. A variety of annual crops are grown in the agricultural fields including flax, wheat, and soybeans. An alfalfa hayfield is also present in the project area. Numerous depression wetlands are scattered throughout the project area. Site Photos are included in Appendix A and scientific names of the above-mentioned plants are included in Appendix B, Plant List.

The project area is located within the Northwestern Glaciated Plains ecoregion. The Northwestern Glaciated Plains ecoregion is characterized by a youthful morainal landscape with significant surface irregularity and high concentrations of wetlands (Ecoregions of North Dakota and South Dakota, Bryce et al. 2018). Historically, the project area appears to have functioned similarly as it does today.

The National Wetland Inventory (NWI) identified numerous features within the project area. These features consisted of ten palustrine, emergent, persistent, temporarily flooded (PEM1A) basins, nine



palustrine, emergent, temporarily flooded, drained (PEMAd) basins, one palustrine, emergent, persistent, seasonally flooded, excavated (PEM1Cx) feature and one a palustrine, emergent, persistent, seasonally flooded, (PEM1C) basin. The project area is located within USGS topographical quadrangle, Stanley (4810245). The topographical map depicts some depressional areas but no aquatic features, within the project area (Figure 3). The project area is within the Lake Sakakawea (10110101) HUC8 watershed (NDDEQ 2023).

Lake Sakakawea (Missouri River), the nearest Traditional Navigable Water (TNW) to the project area, is located approximately 30 miles to the southwest at its nearest point (NDSWC 2015). The Stanley Municipal Airport is located above and approximately one-half mile from the Stanley Dam (Little Knife River). The Little Knife River is a direct tributary to Lake Sakakawea (Missouri River). Precipitation over the past few months was considered drier than normal at the project area (USACE APT 2023).

#### 4. Results

Moore reviewed typical desktop resources such as Soil Survey, NWI, and topographic data prior to the project visit.

4.1 Desktop General Information Review

#### Soil Survey (Figure 4)

2023 SSURGO soil map unit data indicates the project is underlain by 14 different soil map units, summarized in Table 2 below.

Map Unit Symbol	Mapunit Name	Hydric Rating (%)	Percentage of Project Area
СЗА	Parnell silty clay loam, 0 to 1 percent slopes	100	3.30
C132B	Williams-Zahl loams, 3 to 6 percent slopes	2	35.30
C153E	Zahl-Max loams, 15 to 25 percent slopes	8	0.10
C154C	Zahl-Williams-Bowbells loams, 3 to 9 percent slopes	2	14.30
C210A	Williams-Bowbells loams, 0 to 3 percent slopes	3	3.60
C272A	Hamerly-Tonka complex, 0 to 3 percent slopes	41	3.90
C360B	Livona fine sandy loam, 0 to 6 percent slopes	3	5.10
C370B	Krem-Lihen loamy fine sands, 0 to 6 percent slopes	2	2.00
C415A	Tansem loam, 0 to 2 percent slopes	1	1.20
C424A	Minot silty clay, 0 to 2 percent slopes	2	2.70
C800B	Appam sandy loam, 2 to 6 percent slopes	1	18.00
C825A	Divide loam, 0 to 2 percent slopes	10	2.30
C870E	Wabek-Lehr-Appam complex, 9 to 25 percent slopes	2	5.50
C874C	Wabek-Appam complex, 6 to 9 percent slopes	1	2.80

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#### National Wetland Inventory (Figure 5)

The National Wetland Inventory (NWI) identified numerous features within the project area. These features consisted of ten palustrine, emergent, persistent, temporarily flooded (PEM1A) basins,



nine palustrine, emergent, temporarily flooded, drained (PEMAd) basins, one palustrine, emergent, persistent, seasonally flooded, excavated (PEM1Cx) feature and one a palustrine, emergent, persistent, seasonally flooded, (PEM1C) basin.

#### Precipitation (Appendix C)

According to the APT analysis, the project experienced below normal precipitation conditions in the 90 days prior to the field delineation and identified as mild drought condition.

4.2 Field Investigation

The field delineation conducted July 13, 2023, identified and delineated seven aquatic resources (wetlands) (Figure 2). Aquatic resources are shown in Table 2, described below, and shown on Figure 2. Photographs of the project area are provided in Appendix A, USACE Wetland Determination Field Data Sheets are provided in Appendix D, and the OHWM Data Sheet is provided in Appendix E.

Test Hole	Feature ID	Classification	Latitude N	Longitude W	Acres
1	Wetland 1	PEM1A	48.302914	-102.398627	0.86
3	Wetland 2	PEM1C	48.304603	-102.402587	15.66
5	Wetland 3	PEM1C	48.306672	-102.415221	1.58
7	Wetland 4	PEM1A	48.306667	-102.413264	0.33
9	Wetland 5	PEM1A	48.306728	-102.411851	0.03
11	Wetland 6	PEM1C	48.298550	-102.408171	0.60
13	Wetland 7	PEM1C	48.298715	-102.415358	0.09

#### Table 2: Delineated Aquatic Resources

#### Wetlands 1, 4, and 5

Wetlands 1, 4, and 5 consist of shallow depressions with temporary hydrologic regimes. Wetland 1 is located along the eastern boundary of the project area and Wetlands 4 and 5 are located along the northern edge. The wetland areas were not cropped in 2023 due to wet spring conditions. The wetlands are natural depression wetlands that meet the classification of PEM1A due to palustrine emergent, persistent, and their temporary flooded hydrologic regimes.

#### <u>Vegetation</u>

The vegetation community within Wetlands 1, 4, and 5 consists of common spikerush, foxtail barley, curly dock, and pinkweed. Common mallow was prevalent in Wetland 4 as it is able to grow upon the bare soils of the wetland interior.

The upland areas surrounding the wetlands were planted into agricultural crops of flax and soybeans.

#### <u>Soils</u>

Soils within the wetland area contain approximately seven inches of 10YR 2/1 silt loams over a reduced matrix of 10YR 3/2 and 4/2 with prominent redoximorphic concentrations. The observed



hydric soil indicator was Redox Dark Surface (D6) and Depleted Below Dark Surface (A11).

The upland data point profiles featured a layer of 10YR 2/1 loam over a dark subsoil (10YR 3/1 or 10YR 3/2) without redoximorphic features.

#### <u>Hydrology</u>

Each wetland basin was dry at the time of the field delineation. It is probable that each basin was wet in the spring as none had been planted. Observed secondary hydrology indicators included FAC-neutral Test (D5) and Geomorphic Position (D2). No water table or saturation was noted in the upper portion of the soil profile.

#### Wetlands 2 and 3

Wetlands 2 and 3 consist of depressions with seasonal hydrologic regimes. Both wetlands are located along the northern edge of the project aera. The wetland areas were not cropped in 2023 and appear to be infrequently cropped except along their upper wetland boundaries. The wetlands are natural depression wetlands that meet the classification of PEM1C due to palustrine emergent, persistent, and their seasonally flooded hydrologic regimes.

#### <u>Vegetation</u>

The vegetation community within Wetlands 2 and 3 consists of common spikerush, foxtail barley, northern water plantain, and pinkweed along their boundaries. Reed canary grass and narrow-leaf cattail were noted in the interior of the wetland areas.

The upland areas surrounding the wetlands were planted to agricultural crops of flax and soybeans.

#### <u>Soils</u>

Soils within the wetland area contain approximately seven inches of 10YR 2/1 silt loams over a reduced matrix of 10YR 3/2 and 4/2 with prominent redoximorphic concentrations. The observed hydric soil indicator was Redox Dark Surface (D6).

The upland data point profiles featured a layer of 10YR 2/1 loam over a dark subsoil (10YR 3/1 or 10YR 3/2) without redoximorphic features.

#### <u>Hydrology</u>

Each wetland basin contained surface water (A1) at the time of the field delineation within their interior. Saturation (A3) was present to the surface near to the observation points. Observed secondary hydrology indicators included FAC-neutral Test (D5) and Geomorphic Position (D2). No water table or saturation was noted in the upper portion of the soil profile.

#### Wetlands 6 and 7

Wetlands 6 and 7 consist of depressional areas with seasonal hydrologic regimes that may be influenced by the adjacent roadways. Both wetlands are located along the southern edge of the project area adjacent to the northern right-of-way of 61<sup>st</sup> Street. Both wetland areas extend out of the project area and into the adjacent roadway. The wetlands meet the classification of PEM1C due to palustrine emergent, persistent, and their seasonally flooded hydrologic regimes.

#### Vegetation

The vegetation community within Wetlands 6 and 7 consists of common spikerush, foxtail barley, and reed canary grass along their boundaries. Prairie bulrush and narrow-leaf cattail were noted in



the interior of the wetland areas.

The upland areas surrounding the wetlands consisted of tame grasses such as quackgrass and Mexican fireweed. Wheat had been planted into the adjacent agricultural field above the wetland areas.

#### <u>Soils</u>

Soils within the wetland area contain approximately seven inches of 10YR 2/1 silt loams over a reduced matrix of 10YR 3/2 and 4/2 with prominent redoximorphic concentrations. The observed hydric soil indicator was Redox Dark Surface (D6).

The upland data point profiles featured a layer of 10YR 2/1 loam over a dark subsoil (10YR 3/2 or 10YR 4/2) without redoximorphic features.

#### <u>Hydrology</u>

Each wetland area was dry at the time of the field delineation within their interior but did contain an Algal Mat or Crust (B4). Observed secondary hydrology indicators included FAC-neutral Test (D5) and Geomorphic Position (D2). No water table or saturation was noted in the upper portion of the soil profile.

Numerous shallow depressions or swales were erroneously identified by the NWI as wetland areas. Some of these areas appeared to have either hydrophytic vegetation or indications of hydrology but lacked hydric soils. Detailed descriptions of these areas can be found in the observation points (50-60). Additional NWI locations were evaluated but proved to lack hydrology and these were identified as "nh" (no hydrology). These areas either lacked proper landscape position and landform (swales) or hydrology had been previously drained away from the area.

Project photographs are provided in Appendix A.

#### 5. Interstate or Foreign Commerce

None of the identified aquatic resources appear to support any type of interstate or foreign commerce for the purposes of recreation relating to sporting or leisure activities associated with interstate or foreign travelers, or industries engaged in interstate or foreign commerce relating to the production or sale of products and services.

#### 6. Summary

Seven wetlands were identified within the Project Area and comprise approximately 19.12 acres. Wetlands 1-5 are depressional and do not have surface outlets or connections with other aquatic resources. Wetlands 6 and 7 may have been influenced by the adjacent roadway. Each of these wetlands extend out of the project area and into the adjacent ROW.



#### 7. References

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- United States Geological Survey. 2023. USGS Topographic Map. Stanley (4810245). 1:24K. Available online at: http://viewer.nationalmap.gov/viewer/ (Accessed July 2023).



#### 8. Delineator's Credentials

#### Greg Meyer, Environmental Scientist

Education: Concordia College – BA Biology University of North Dakota – MS Biology

Professional Membership: North Dakota Chapter of the Wildlife Society

Training: Hydric Soils and Wetlands Certification - NRCS Hydrogeomorphic Assessment of Wetlands - NRCS Wetland Delineator Certification Program Wetland Delineation Workshop - NDDOT Wetland Delineation Certification: Professionally Certified Wetland Delineator – MN #1177

#### Hal Weiser, Professional Soil Classifier

Education: North Dakota State University – BS Soil Science – MS Soil Sciences

Professional Membership: North Dakota Registered Professional Soil Classifier - #53

Training: Hydric Soils and Wetlands Certification - NRCS Hydrogeomorphic Assessment of Wetlands – NRCS Hydric Soils and Advanced Hydric Soils – NRCS Prairie Pothole Wetland Hydrogeomorphic Model for Functional Assessment – NRCS NRCS Wetland Delineation and Certification (Instructor) – NRCS Rangeland Health Assessment (Instructor) – NRCS Conservation Planning (Instructor) – NRCS Cropland Soil Health Assessment (Instructor) – NRCS Ecological Site Identification (Instructor) – NRCS Wetland Reg. IV Delineation - USACE



## FIGURES

Figure 1	Project Location
Figure 2	Delineated Aquatic Features
Figure 3	USGS Topographic Map
Figure 4	Śoil Survey
Figure 5	National Wetland Inventory

















## Appendix A

Project Photos







Photo #:4227 Observer: GWM Date:7/13/2023 Direction Photo is Taken: Southeast Notes: View of NWI location. No wetland is located at this location as it was erroneously identified or has been effectively drained for agricultural production.
Photo #:4229 Observer: GWM Date:7/13/2023 Direction Photo is Taken: Northeast Notes: View of depressional area that appears to be a wetland area but does not contain hydric soils. Observation point 52 was completed at this location. Hydrology flows slowly to the east and out of this location and the wet spring kept it from being planted in 2023.









## Appendix B

Plant List



USACE Region: Great Plain					
Genus	Species	Common Name	Wetland Indicator Status		
Alisma	triviale	Northern water plantain	OBL		
Amaranthus	retroflexus	Red root	FACU		
Bassia	scoparia	Mexican fireweed	FACU		
Bromus	inermis	Smooth brome	UPL		
Chenopodium	album	Lamb's quarter	FACU		
Cirsium	arvense	Canada thistle	FACU		
Echinochloa	crus-galli	Barnyard grass	FAC		
Eleocharis	palustris	Common spikerush	OBL		
Elymus	repens	Quackgrass	FACU		
Epilobium	ciliatum	Fringed willowherb	FACW		
Glycine	тах	Soybean	UPL		
Hordeum	jubatum	Foxtail barley	FACW		
Linum	spp.	Flax	NI		
Malva	neglecta	Common mallow	NI		
Persicaria	pensylvanica	Pennsylvania smartweed	FACW		
Persicaria	virginiana	Jumpseed	FAC		
Phalaris	arundinacea	Reed canary grass	FACW		
Роа	pratensis	Kentucky bluegrass	FACU		
Rumex	crispus	Curly dock	FAC		
Schoenoplectus	maritimus	Saltmarsh club rush	OBL		
Taraxacum	officinale	Common dandelion	FACU		
Typha	angustifolia	Narrow leaf cattail	OBL		
Veronica	peregrina	Neckweed	FACW		

OBL = occurs in aquatic resources > 99% of time

FACW = occurs in aquatic resources 67-99% of time

FAC = occurs in aquatic resources 34-66% of time

FACU = occurs in aquatic resources 1-33% of time

UPL = occurs in uplands > 99% of time

NI = indicator status not known in this region

 $\sim$  = unsure as to FAC or FACU

# Appendix C

Antecedent Precipitation Data







Coordinates	48.301998, -102.407615
Observation Date	2023-07-13
Elevation (ft)	2238.179
Drought Index (PDSI)	Mild drought (2023-06)
WebWIMP H <sub>2</sub> O Balance	Dry Season

2023-07-13 2.375984 4.380709 0.88189 Dry 1 3	3
2023-06-13 1.75 4.511811 1.228346 Dry 1 2	2
2023-05-14 1.064567 2.226772 2.677165 Wet 3 1	3
Result	Drier than Normal - 8

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation $\Delta$	Weighted $\Delta$	Days Normal	Days Antecedent
NORTHGATE 5 ESE	48.9675, -102.1703	1841.864	47.241	396.315	39.981	5811	90
BOWBELLS	48.7994, -102.2464	1960.958	12.118	119.094	6.896	2023	0
TOLLEY 6.4 N	48.8214, -101.8494	1735.892	17.731	105.972	9.858	10	0
KENMARE 1 WSW	48.6692, -102.0975	1810.039	20.875	31.825	10.058	2338	0
COLUMBUS	48.9167, -102.8333	1950.131	30.292	108.267	16.911	391	0
FOXHOLM 7 N	48.4583, -101.5697	1674.869	44.582	166.995	27.507	669	0
POWERS LAKE 1N	48.5722, -102.6467	2205.053	34.88	363.189	28.364	76	0
BERTHOLD	48.3139, -101.7328	2080.053	49.379	238.189	33.982	30	0
TAGUS	48.3475, -101.9325	2169.948	44.191	328.084	34.384	5	0



Written by Jason Deters U.S. Army Corps of Engineers

Sep	Oct	Nov
2023	2023	2023

# Appendix D

USACE Wetland Data Sheets



#### WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Stanley Municipal Airport	City/County: Mo	untrail County	Sampling Date: 2023-07-13		
Applicant/Owner: <u>Stanley Municipal Airport</u>	State: <u>North Dakota</u> Sampling Point: <u>1</u>				
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W				
Landform (hillslope, terrace, etc.): Depression	_ Local relief (cond	ave, convex, none): <u>Concav</u>	e Slope (%): <u>0-2</u>		
Subregion (LRR): LRR F, MLRA 53B Lat: 4	8.302800	Long: <u>-102.398802</u>	Datum: <u>WGS84</u>		
Soil Map Unit Name: Hamerly-Tonka complex, 0 to 3 perce	ent slopes	NWI classific	ation: None		
Are climatic / hydrologic conditions on the site typical for this time of y	rear?Yes 🖌	No (If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology significantl	y disturbed?	Are "Normal Circumstances" p	resent? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answer	rs in Remarks.)		
			• • • • • •		

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

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

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1			·	That Are OBL, FACW, or FAC
2				$(excluding PAC^{-}). \qquad \underline{2} \qquad (A)$
3				Total Number of Dominant
4				Species Across All Strata: (B)
	0	= Total Cov	rer	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15)				That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
1			·	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000000000000000000000000000000000$
4				$CDL species = 00.00 \times 1 = 00.00$
5			. <u> </u>	FACW species $20.00 \times 2 = 40.00$
	0	= Total Cov	rer	FAC species $0.00 \times 3 = 0.00$
Herb Stratum (Plot size: <u>5</u> )				FACU species $0.00 \times 4 = 0.00$
1. <u>Eleocharis palustris</u>	60	<u> </u>	OBL	UPL species $10.00 \times 5 = 50.00$
2. <u>Hordeum jubatum</u>	20	<u> </u>	FACW	Column Totals: <u>90.00</u> (A) <u>150.00</u> (B)
3. <u>Glycine max</u>	10	<u>     N                               </u>	UPL	Prevalence Index - B/A - 1.67
4			. <u> </u>	Hudrophytic Vegetation Indicators
5				A Desid Test for Undershutic Verstation
6				
7				$\underline{\checkmark}$ 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0'
9				4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	90.0	= Total Cov	rer	
Woody Vine Stratum (Plot size: <u>30</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				
2				Hydrophytic
	0	= Total Cov	rer	Vegetation Prospet2 Vos v No
% Bare Ground in Herb Stratum <u>10</u>				
Remarks:				

#### SOIL

Profile Des	cription: (D	escribe t	o the dep	th needed	to docun	nent the i	ndicator	or confirm	m the absence	of indicators.)	
Depth Matrix Redox Features							·				
(inches)	Color (r	noist)	%	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	<u>10YR</u>	2/1	100						loam		
7-9	10YR	2/1	96	10YR	3/6	4	_C	М	Silt loam		
9-16	2.5Y	4/1	80	10YR	4/6	20	C	М	Silt loam		
									Oncioani		
									· . <u> </u>		
	·								·		
									·		
									<u></u>		
<sup>1</sup> Type: C=C	concentratior	n, D=Deple	etion, RM	Reduced N	/latrix, CS	=Covered	d or Coate	d Sand G	irains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:	(Applica	ble to all	LRRs, unle	ess other	wise not	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :	
Histoso	l (A1)				Sandy G	Bleyed Ma	atrix (S4)		1 cm M	luck (A9) ( <b>LRR I, J</b> )	
Histic E	pipedon (A2	)			Sandy F	Redox (S5	5) No.		Coast Prairie Redox (A16) (LRR F, G, H)		
Black H	listic (A3) on Sulfido (A	4)			Stripped	Matrix (S	56) aarol (E1)		Dark Surface (S7) (LRR G)		
Hydroge Stratifie	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)				(I BR H outside of MI RA 72 & 73)						
Stratille	1 cm Muck (AQ) ( <b>LRR F</b> ) Loanty Gleyed Matrix (F2)				Reduced Vertic (F18)						
Deplete	Depleted Below Dark Surface (A11)				Red Parent Material (TF2)						
Thick D	Thick Dark Surface (A12)				Very Sl	Very Shallow Dark Surface (TF12)					
Sandy I	Sandy Mucky Mineral (S1) Redox Depressions (F8)				Other (	Other (Explain in Remarks)					
2.5 cm	Mucky Peat	or Peat (S	62) (LRR (	G, H)	High Pla	ins Depre	essions (F	16)	<sup>3</sup> Indicators of hydrophytic vegetation and		
5 cm M	5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H)		wetland hydrology must be present,								
						unless disturbed or problematic.					
Restrictive	Layer (if pro	esent):									
Туре:											
Depth (in	nches):								Hydric Soil	Present? Yes 🖌 No	
Remarks:	- 11										
Tonka S	OII										
HYDROLC	GY										
Wetland Hy	drology Ind	licators:									
Primary Indi	Primary Indicators (minimum of one required; check all that apply)					<u>Seconda</u>	ry Indicators (minimum of two required)				
Surface	Water (A1)			s	alt Crust	(B11)			Surfa	ace Soil Cracks (B6)	
High W	ater Table (A	A2)		A	quatic Inv	vertebrate	s (B13)		Spar	rsely Vegetated Concave Surface (B8)	
Saturati	ion (A3)			H	ydrogen	Sulfide O	dor (C1)		Draii	nage Patterns (B10)	
Water N	/larks (B1)			Dry-Season Water Table (C2)					Oxidized Rhizospheres on Living Roots (C3)		

 Oxidized Rhizospheres on Living Roots (C3)	(where tilled)
 Oxidized Rhizospheres on Living Roots (C3)	(where tilled

- \_\_\_ Crayfish Burrows (C8)
- \_\_\_\_ Saturation Visible on Aerial Imagery (C9)
- ✓ Geomorphic Position (D2)
- ✓ FAC-Neutral Test (D5)
  - Frost-Heave Hummocks (D7) (LRR F)

Water-Stained Leaves (B	39)			Frost-Heave Hu	mmocks (D7) (LRR F)
Field Observations:					
Surface Water Present?	Yes No	~	Depth (inches):		
Water Table Present?	Yes No	~	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes No	~	Depth (inches):	Wetland Hydrology Present?	Yes 🖌 No
Describe Recorded Data (str	eam gauge, monito	oring v	vell, aerial photos, previous inspec	tions), if available:	
Remarks:					

(where not tilled)

\_\_\_\_ Thin Muck Surface (C7)

\_\_\_\_ Other (Explain in Remarks)

Presence of Reduced Iron (C4)

\_\_\_\_ Sediment Deposits (B2)

\_\_\_\_ Algal Mat or Crust (B4)

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

\_\_\_\_ Drift Deposits (B3)

\_\_\_\_ Iron Deposits (B5)

#### WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Stanley Municipal Airport	City/County: Mountra	ail County	Sampling Date: <u>2023-07-13</u>		
Applicant/Owner: Stanley Municipal Airport	State: North Dakota Sampling Point: 2				
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W				
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave, o	convex, none): <u>Convex</u>	Slope (%): <u>0-2</u>		
Subregion (LRR): LRR F, MLRA 53B Lat: 48	.302713	Long: <u>-102.398964</u>	Datum: WGS84		
Soil Map Unit Name: Minot silty clay, 0 to 2 percent slopes		NWI classifica	tion: <u>None</u>		
Are climatic / hydrologic conditions on the site typical for this time of ye	ar?Yes 🖌 No _	(If no, explain in Re	marks.)		
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "	Normal Circumstances" pr	esent? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If ne	eded, explain any answers	s in Remarks.)		
		-			

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

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

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2			·	$(excluding FAC^{-}). \qquad \qquad \underline{0} \qquad (A)$
3				Total Number of Dominant
4				Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 15)	0	= Total Cov	er	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3		<u> </u>	·	OBL species $0.00$ x 1 = $0.00$
4				EACW species $0.00 \times 2 = 0.00$
5			<u> </u>	EAC species $0.00 \times 3 = 0.00$
Horb Stratum (Diot aiza: <b>F</b> )	0	= Total Cov	er	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
<u>Herb Stratum</u> (Flot size. <u>5</u> )	60	V	וחו	$\frac{1100 \text{ species}}{100} = \frac{0.00}{100} \times 5 = -300.00$
	0	<u> </u>	UPL	Column Totals: $60.00$ (A) $300.00$ (B)
2				$\underline{-00.00}(A) \underline{-00.00}(B)$
3				Prevalence Index = $B/A = 5.0$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
0		<u> </u>	······································	2 - Dominance Test is >50%
/				3 - Prevalence Index is $≤3.0^1$
8 9	·			4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	60.0	= Total Cov	er	
Woody Vine Stratum (Plot size: <u>30</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1			. <u> </u>	be present, unless disturbed of problematic.
2				Hydrophytic
	0	= Total Cov	er	Vegetation
% Bare Ground in Herb Stratum 40				
Remarks:				
#### Sampling Point: 2

Profile Descri	iption: (Describe t	o the depth nee	ded to docum	ent the in	dicator o	or confirm	the absence of indic	ators.)	
Depth	Matrix		Redox	Features					
(inches)	Color (moist)	<u>%</u> Co	lor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	<u>10YR 2/2</u>	100					Loam		
7-12	<u>10YR 3/2</u>	100					Loam		
12-20	10YR 4/2	100					Loam		
							·		
<u> </u>									
<sup>1</sup> Type: C=Con	centration. D=Depl	etion. RM=Redu	ced Matrix. CS:	=Covered	or Coate	d Sand Gr	ains. <sup>2</sup> Location: P	L=Pore Lining, M=Matrix,	
Hydric Soil In	dicators: (Applica	ble to all LRRs	, unless other	wise noted	d.)		Indicators for Prol	plematic Hydric Soils <sup>3</sup> :	
Histosol (A	A1)		Sandy G	leyed Mati	ix (S4)		1 cm Muck (A9	) (LRR I, J)	
Histic Epip	pedon (A2)		Sandy R	edox (S5)			Coast Prairie Redox (A16) (LRR F, G, H)		
Black Hist	tic (A3)		Stripped Matrix (S6)				Dark Surface (S7) (LRR G)		
Hydrogen	Sulfide (A4)		Loamy Mucky Mineral (F1)				High Plains Depressions (F16)		
Stratified I	Layers (A5) (LRR F	)	Loamy Gleyed Matrix (F2)				(LRR H out	side of MLRA 72 & 73)	
1 cm Mucl	k (A9) ( <b>LRR F, G, H</b>	)	Depleted Matrix (F3)				Reduced Vertic	: (F18)	
Depleted I	Below Dark Surface	(A11)	Redox Dark Surface (F6)				Red Parent Ma	terial (TF2)	
Thick Darl	k Surface (A12)		Depleted Dark Surface (F7)				Very Shallow D	Park Surface (TF12)	
 Sandv Mu	uckv Mineral (S1)		Redox Depressions (F8)				Other (Explain in Remarks)		
2.5 cm Mi	ucky Peat or Peat (S	(LRR G. H)	High Plai	ins Depres	sions (F1	6)	<sup>3</sup> Indicators of hydrophytic vegetation and		
<u> </u>	ky Peat or Peat (S3	) (I RR F)	(MLRA 72 & 73 of LRR H)			H)	wetland hydrolo	av must be present	
		) (ERRE)				•••	unless disturbe	d or problematic.	
Restrictive La	ayer (if present):								
Туре:									
Depth (inch	nes):						Hydric Soil Present	? Yes <u>No </u>	
Remarks:									
HYDROLOG	βY								
Wetland Hydr	rology Indicators:								
Primary Indicators (minimum of one required; check all that apply)							Secondary Indica	ators (minimum of two required)	
Surface W	Vater (A1)	-	Salt Crust (	B11)			Surface Soil	Cracks (B6)	
High Wate	er Table (A2)	Aquatic Invertebrates (B13)				Sparsely Vegetated Concave Surface (B8)			

 Drainage Patterns (B10)
 Oxidized Rhizospheres on Living Roots (C3)

- Dry-Season Water Table (C2)
   Oxidized Rhizospheres on Living Roots (C3)
   (where not tilled)
   Crayfish Burrow
- \_\_\_\_ Drift Deposits (B3) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) \_\_\_\_ Iron Deposits (B5) Geomorphic Position (D2) Thin Muck Surface (C7) \_\_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_\_ Other (Explain in Remarks) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) Field Observations: Surface Water Present? Yes \_\_\_\_\_ No \_\_\_ Depth (inches): \_\_\_ Yes \_\_\_\_\_ No \_\_\_ Depth (inches): \_\_\_\_ Water Table Present? Yes \_\_\_\_\_ No \_ Cepth (inches): \_\_\_\_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No \_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Hydrogen Sulfide Odor (C1)

Remarks:

Saturation (A3) Water Marks (B1)

\_\_\_\_ Sediment Deposits (B2)

Project/Site: Stanley Municipal Airport	City/County: Mountrail County	Sampling Date: 2023-07-13
Applicant/Owner: <u>Stanley Municipal Airport</u>	State: North Date:	ota Sampling Point: 3
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156	NR091W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): Conc	xave Slope (%): 0-2
Subregion (LRR): LRR F, MLRA 53B Lat: 48	.304287 Long: -102.4003	83 Datum: <u>WGS84</u>
Soil Map Unit Name: Krem-Lihen loamy fine sands, 0 to 6 p	ercent slopes NWI class	sification: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🔽 No (If no, explain i	n Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstance	s" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transed	cts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>v</u> No Yes <u>v</u> No Yes <u>v</u> No	Is the Sampled Area within a Wetland?	Yes 🖌 No
Remarks: Large sprawling depression	n		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2	<u> </u>			(excluding FAC-): <u>2</u> (A)
3				Total Number of Dominant
4.				Species Across All Strata: <u>2</u> (B)
	0	= Total Cove	er	Demonst of Dominant Creation
Sapling/Shrub Stratum (Plot size: 15)				That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
1		·		Prevalence Index worksheet:
2		<u> </u>		Total % Cover of: Multiply by:
3				OBL species 50.00 x 1 = 50.00
4			<u> </u>	EACW species 0.00 x 2 = 0.00
5				FAC appendix 20.00 x 2 = 0.00 x
	0	= Total Cove	er	FAC species $20.00$ x 3 = $60.00$
Herb Stratum (Plot size: <u>5</u> )				FACU species $0.00$ x 4 = $0.00$
1. <u>Eleocharis palustris</u>	40	<u> </u>	OBL	UPL species $0.00 \times 5 = 0.00$
2. <u>Echinochloa crus-galli</u>	20	Y	FAC	Column Totals: <u>70.00</u> (A) <u>110.00</u> (B)
3. <u>Alisma triviale</u>	10	<u>     N                               </u>	OBL	Prevalence Index $= B/A = 1.57$
4				Hydrophytic Vogetation Indicators:
5				1 Denid Test for Lludrenbutic Vegetation
6				
7				2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0'
9.				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	70.0	= Total Cove	er	
Woody Vine Stratum (Plot size: 30)				Indicators of hydric soil and wetland hydrology must
1		·		be present, unless disturbed of problematic.
2				Hydrophytic
	0	= Total Cove	er	Vegetation
% Bare Ground in Herb Stratum <u>30</u>				
Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix			Redo	x Feature	s	2			
(inches)	Color (moist)	%	Color (r	<u>Color (moist) % Type' Loc<sup>2</sup> Texture Remarks</u>				Remarks		
	<u>10YR 2/1</u>	100			·			Loam		
7-15	<u>10YR 3/1</u>	85	10YR	3/6	15	C	M	Loam		
15-20	<u>10YR 3/2</u>	80	10YR	3/6	_20	C	Μ	<u>Clay loam</u>		
<sup>1</sup> Type: C=C	oncentration, D=De	epletion, RM=	Reduced	Aatrix, CS	S=Covered	d or Coate	d Sand G	irains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appl	icable to all	LRRs, unle	ess other	wise not	ed.)		Indicators for Problematic Hydric Soils':		
Histosol	(A1)			Sandy Gleyed Matrix (S4)				1 cm Muck (A9) ( <b>LRR I, J</b> )		
Histic El	pipedon (A2)			Sandy Redox (S5)				Coast Prairie Redox (A16) (LRR F, G, H)		
Black H	istic (A3)			Stripped Matrix (S6)				Dark Surface (S7) (LRR G)		
Hydroge	en Sulfide (A4)			Loamy Mucky Mineral (F1)				High Plains Depressions (F16)		
Stratified	d Layers (A5) ( <b>LRF</b>	RF)		Loamy Gleyed Matrix (F2)				(LRR H outside of MLRA 72 & 73)		
1 cm Mu	uck (A9) ( <b>LRR F, G</b>	, H)		Depleted Matrix (F3)				Reduced Vertic (F18)		
Deplete	d Below Dark Surfa	ace (A11)	~	<u>~</u> Redox Dark Surface (F6)				Red Parent Material (TF2)		
Thick Da	ark Surface (A12)			Depleted Dark Surface (F7)				Very Shallow Dark Surface (TF12)		
Sandy N	/lucky Mineral (S1)			Redox Depressions (F8)				Other (Explain in Remarks)		
2.5 cm l	Nucky Peat or Pea	t (S2) ( <b>LRR G</b>	S, H)	) High Plains Depressions (F16)				Indicators of hydrophytic vegetation and		
5 cm Mu	ucky Peat or Peat (	S3) (LRR F)		(MLRA 72 & 73 of LRR H)				wetland	d hydrology must be present,	
Restrictive	Laver (if present):							uniess	disturbed of problematic.	
Type:	· · · · · · · · · · · · · · · · · · ·									
Depth (inches):								Hydric Soil	Present? Yes 🖌 No	
Remarks:										
HYDROLO	GY									

Wetland Hydrology Indicators:							
Primary Indicators (minimum of one required; ch	Secondary Indicators (minimum of two required)						
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)					
High Water Table (A2)	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)					
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
Water Marks (B1)	Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	bots (C3) (where tilled)					
Drift Deposits (B3)	(where not tilled)	Crayfish Burrows (C8)					
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)					
Iron Deposits (B5)	Thin Muck Surface (C7)	✓ Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)					
Field Observations:							
Surface Water Present? Yes No	✓ Depth (inches):						
Water Table Present? Yes No	✓ Depth (inches):						
Saturation Present? Yes <u>No</u> (includes capillary fringe)	✓ Depth (inches):	Wetland Hydrology Present? Yes 🖌 No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

Project/Site: Stanley Municipal Airport	City/County: Mountra	ail County	Sampling Date: <u>2023-07-13</u>		
Applicant/Owner: Stanley Municipal Airport	State: North Dakota Sampling Point: 4				
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W				
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave,	convex, none): <u>Convex</u>	Slope (%): <u>0-2</u>		
Subregion (LRR): LRR F, MLRA 53B Lat: 48	304207	Long: <u>-102.400290</u>	Datum: WGS84		
Soil Map Unit Name: Krem-Lihen loamy fine sands, 0 to 6 p	ercent slopes	NWI classifica	tion: <u>None</u>		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🖌 No _	(If no, explain in Re	marks.)		
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are '	"Normal Circumstances" pr	esent? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If ne	eeded, explain any answers	s in Remarks.)		

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

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

	Absolute Dominant	t Indicator Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u> Species?	<u>Status</u> Number of Dominant Species
1		That Are OBL, FACW, or FAC
2		(excluding PAC-) (A)
3		Total Number of Dominant
4		Species Across All Strata: (B)
	0 = Total Cov	over Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15)		That Are OBL, FACW, or FAC: 0.00 (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		
4		$\frac{1}{1000} = \frac{1}{1000} = 1$
5		FAC w species $0.00 \times 2 = 0.00$
	0 = Total Cov	over $PAC species 0.00 x 3 = 0.00$
Herb Stratum (Plot size: 5)		FACU species $0.00 \times 4 = 0.00$
1. <u>Glycine max</u>	<u>    60                                </u>	- UPL   UPL species 60.00 x 5 = 300.00 (b)
2		$- \qquad \qquad$
3		Prevalence Index = B/A = 5.0
4		Hydrophytic Vegetation Indicators:
5		1 - Rapid Test for Hydrophytic Vegetation
6		2 - Dominance Test is >50%
7		$\frac{1}{2}$ 2 Dominance reaction > 00 m
8		4. Morphological Adaptetions <sup>1</sup> (Provide supporting
9		data in Remarks or on a separate sheet)
10		- — Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	<u>60.0</u> = Total Cov	over
Woody Vine Stratum (Plot size: <u>30</u> )		Indicators of hydric soil and wetland hydrology must
1		
2		Hydrophytic
A Dara Oraca dia Urata Oractara 10	<u>0</u> = Total Cov	over vegetation Present? Yes No v
% Bare Ground in Herb Stratum 40		
40% bare		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix					Redo	x Features	8				
(inches)	Color (r	<u>moist)</u>	%	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks		
0-6	<u>10YR</u>	2/2	100			·			Loam		
6-26	2.5Y	4/2	100						Loam		
26-28	2.5Y	4/3	90	2.5Y	5/6	10	C	M	Loamy sand		
<sup>1</sup> Type: C=Ce	oncentratior	n, D=Depl	etion, RM=	Reduced I	Matrix, CS	S=Covered	or Coate	d Sand G	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:	(Applica	able to all	LRRs, unl	ess other	wise note	ed.)		Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)				Sandy C	Sleyed Ma	trix (S4)		1 cm Muck (A9) ( <b>LRR I, J</b> )		
Histic Ep	pipedon (A2	)			Sandy Redox (S5)				Coast Prairie Redox (A16) (LRR F, G, H)		
Black Hi	stic (A3)				Stripped Matrix (S6)				Dark Surface (S7) (LRR G)		
Hydroge	en Sulfide (A	(4)			Loamy Mucky Mineral (F1)				High Plains Depressions (F16)		
Stratified	d Layers (At	5) ( <b>LRR F</b>	·)		Loamy Gleyed Matrix (F2)				(LRR H outside of MLRA 72 & 73)		
1 cm Mu	ıck (A9) ( <b>LR</b>	R F, G, H	I)		Depleted Matrix (F3)				Reduced Vertic (F18)		
Depleted	d Below Dai	rk Surface	e (A11)		Redox Dark Surface (F6)				Red Parent Material (TF2)		
Thick Da	ark Surface	(A12)			Depleted Dark Surface (F7)				Very Shallow Dark Surface (TF12)		
Sandy M	lucky Miner	al (S1)			Redox Depressions (F8)				Other (Explain in Remarks)		
2.5 cm M	Jucky Peat	or Peat (S	S2) (LRR G	6, H)	High Plains Depressions (F16)				<sup>3</sup> Indicators of hydrophytic vegetation and		
5 cm Mu	Ickv Peat or	Peat (S3	(LRR F)	. ,	(MLRA 72 & 73 of LRR H)				wetland hydrology must be present.		
							,	unless disturbed or problematic.			
Restrictive I	Layer (if pro	esent):									
Type:									Hudrie Seil Dresent? Vee No. 4		
Depth (Inches):											
Remarks:											
HYDROLO	GY										
Wetland Hydrology Indicators:											

Weitand Hydrology maloators.							
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)						
Surface Water (A1) Salt Crust (B11)	Surface Soil Cracks (B6)						
High Water Table (A2) Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)						
Saturation (A3) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)						
Water Marks (B1) Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3)						
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Roots (C3) (where tilled)						
Drift Deposits (B3) (where not tilled)	Crayfish Burrows (C8)						
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)						
Iron Deposits (B5) Thin Muck Surface (C7)	Geomorphic Position (D2)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	FAC-Neutral Test (D5)						
Water-Stained Leaves (B9)	Frost-Heave Hummocks (D7) (LRR F)						
Field Observations:							
Surface Water Present? Yes <u>No</u> Depth (inches):							
Water Table Present? Yes <u>No</u> Depth (inches):							
Saturation Present? Yes No V Depth (inches):	Wetland Hydrology Present? Yes No						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:						
Remarks:							

Project/Site: Stanley Municipal Airport	City/County: Mount	trail County	Sampling Date: 2023-07-13
Applicant/Owner: <u>Stanley Municipal Airport</u>		State: North Dakota	Sampling Point: 5
Investigator(s): <u>GM, HW</u>	Section, Township, R	Range: <u>sec 29 T156N R</u>	8091W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave	e, convex, none): <u>Concav</u>	e Slope (%): <u>0-2</u>
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.306699	Long: <u>-102.415704</u>	Datum: WGS84
Soil Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9	percent slopes	NWI classific	ation: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🖌 No	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	e "Normal Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answei	rs in Remarks.)
			• • • • • •

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

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

Tree Stratum       (Plot size:       30       3/2 Cover       Species?       Status         1.		Absolute	Dominant	Indicator	Dominance Test worksheet:
1.	Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
2.2.2.2.2.2.(N)3Total Number of DominantSpecies Across All Strata:2.(B)Sapling/Shrub Stratum (Plot size: 15)Percent of Dominant SpeciesThat Are OBL, FACW, or FAC: 100.00(A/B)1Prevalence Index worksheet:3Total % Cover of:Multiply by:451. Alisma triviale24 <td>1</td> <td></td> <td></td> <td></td> <td>That Are OBL, FACW, or FAC (A)</td>	1				That Are OBL, FACW, or FAC (A)
3.	2			<u> </u>	
4.       0       = Total Cover       Species Across AI Strata:       2       (B)         Sapling/Shrub Stratum (Plot size: 15)       0       = Total Cover       Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)         1.	3			<u> </u>	Total Number of Dominant
Sapling/Shrub Stratum (Plot size: 15) $0$ = Total CoverPercent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)1Prevalence Index worksheet:23451. Alisma triviale75 YOBL2. Eleocharis palustris20 YOBL345678911.Alisma triviale2.YOBL2.YOBL34567891112.YOBL34567899111. <td< td=""><td>4</td><td></td><td></td><td></td><td>Species Across All Strata: (B)</td></td<>	4				Species Across All Strata: (B)
Saping/Singly Singly S	Copling/Chruh Stratum (Dist size)	0	= Total Cov	/er	Percent of Dominant Species
Prevalence Index worksheet:2.3.4.5.6.7.8.9.9.9.9.	Saping/Shrub Stratum (Piot size. 15)				That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
2.	1			·	Prevalence Index worksheet:
3.	2			·	Total % Cover of: Multiply by:
4.	3				OBL species 95.00 x 1 = 95.00
5.0= Total CoverFAC species0.00 $x 3 = 0.00$ Herb Stratum (Plot size: 5)75YOBLFACU species0.00 $x 4 = 0.00$ 1.Alisma triviale75YOBLUPL species0.00 $x 5 = 0.00$ 2.Eleocharis palustris20YOBLColumn Totals: 95.00(A) 95.00(B)3	4				FACW species 0.00 x 2 = 0.00
Herb Stratum (Plot size:51. Alisma triviale75YOBL2. Eleocharis palustris20YOBL3.20YOBL4.95.00(A)95.005.95.00(A)95.006.11Reprint Totals:7.2<	5			<u> </u>	FAC species $0.00 \times 3 = 0.00$
Image: Second state in the second	Herb Stratum (Plot size: 5)	0	= I otal Cov	/er	FACU species $0.00 \times 4 = 0.00$
Principal circle       Product       Prod	1 Alisma triviale	75	Y	OBI	UPL species $0.00 \times 5 = 0.00$
2. <u>Licoontains paradims</u> 20       1       ODL         3.	2 Eleocharis nalustris	<u>70</u>	 		Column Totals: $95.00$ (A) $95.00$ (B)
A.       Prevalence Index = $B/A = 1.0$ Hydrophytic Vegetation Indicators:       Hydrophytic Vegetation Indicators:         ·       ·         6.       ·         7.       ·         8.       ·         9.       ·         ·	3				
5.	A				Prevalence Index = $B/A = 1.0$
0.	т Б				Hydrophytic Vegetation Indicators:
0.	5				1 - Rapid Test for Hydrophytic Vegetation
7.	7				✓ 2 - Dominance Test is >50%
9 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	0				$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
data in Remarks or on a separate sheet)	0				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
	3				data in Remarks or on a separate sheet)
10 Problematic Hydrophytic Vegetation' (Explain)	10	05.0	Total Ca		Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum (Plot size: $30$ ) $\frac{95.0}{1}$ = 1 otal Cover <sup>1</sup> Indicators of hydric soil and wetland hydrology must	Woody Vine Stratum (Plot size: 30)	95.0		/er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. be present, unless disturbed or problematic.	1. <u> </u>				be present, unless disturbed or problematic.
2. Hydrophytic	2.				Hydrophytic
0 = Total Cover		0	= Total Cov	/er	Vegetation
% Bare Ground in Herb Stratum No	% Bare Ground in Herb Stratum				Present? Yes <u>~</u> No
Remarks:	Remarks:				
3% Date					

## Sampling Point: 5

Profile Desc	cription: (De	escribe t	o the dep	th needed	to docun	nent the i	ndicator	or confirm	n the absence of	indicators.)	
Depth		Matrix			Redo	K Features	s				
(inches)	Color (m	noist)	%	Color (n	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	<u>10YR</u>	2/1	100						Silt loam		
6-16	<u>10YR</u>	3/2	95	<u>10YR</u>	3/6	5	C	Μ	Silt loam		
16-20	<u>10YR</u>	4/2	90	<u>10YR</u>	3/6	10	C	M	Silt loam		
·										_	
	anaantration	D Daal		Deduced	Actrix CC		d or Cooto		21 a a a t	ion: DL Doro Lining M Matrix	
Hydric Soil	Indicators:	(Applica	ble to all	Reduced N	natrix, CS	wise note	a or Coate	d Sand G	Indicators fo	or Problematic Hydric Soils <sup>3</sup>	
Histosol	(Δ1)	(Applied		Littes, unit	Sandy G	Heved Ma	(S4)				
Histic Er	pipedon (A2)				Sandy R	ledox (S5	)		Coast Pr	airie Redox (A16) ( <b>LRR F. G. H</b> )	
Black Hi	istic (A3)				Stripped	Matrix (S	, 6)		Dark Sur	face (S7) ( <b>LRR G</b> )	
Hydroge	en Sulfide (A	4)		_	Loamy N	/ucky Mir	neral (F1)		High Plai	ins Depressions (F16)	
Stratified	d Layers (A5	) (LRR F	)		Loamy (	Gleyed Ma	atrix (F2)		(LRR	H outside of MLRA 72 & 73)	
1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3)				Reduced Vertic (F18)							
Depletee	d Below Darl	< Surface	e (A11)	~	Redox D	ark Surfa	ice (F6)		Red Parent Material (TF2)		
Thick Da	ark Surface (	A12)			Deplete	d Dark Su	rface (F7)		Very Shallow Dark Surface (TF12)		
	/lucky Minera	al (51) ar Doot (5		с п) <u>—</u>	Redox L		NS (F8)	16)	Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vocatation and		
2.5 Cm M	viucky Feat c	Doot (S3	) (IRK ( ) (IPP E)	э, п)				<b>H</b> )	indicators of hydrophytic vegetation and		
3 cm wit	icky i eat of	i eat (00	)(ERR 1)				J OI LINK	••)	unless di	isturbed or problematic.	
Restrictive	Layer (if pre	sent):								•	
Туре:											
Depth (in	ches):								Hydric Soil P	resent? Yes 🖌 No	
Remarks:											
HYDROLO	GY										
Wetland Hy	drology Indi	icators:									
Primary India	cators (minim	num of or	ne require	d; check all	that apply	()			Secondary	Indicators (minimum of two required)	
✓ Surface	Water (A1)			S	alt Crust	(B11)			Surfac	e Soil Cracks (B6)	
High Wa	ater Table (A	2)		A	quatic Inv	vertebrate	s (B13)		Sparse	ely Vegetated Concave Surface (B8)	
Saturatio	on (A3)			н	lydrogen	Sulfide Od	dor (C1)		Draina	age Patterns (B10)	
✓ Water M	1arks (B1)			D	ry-Seaso	n Water T	able (C2)		Oxidiz	ed Rhizospheres on Living Roots (C3)	
Sedimer	nt Deposits (	B2)		0	xidized R	hizosphe	res on Livi	ng Roots	(C3) (whe	ere tilled)	
Drift Dep	posits (B3)				(where r	ot tilled)			Crayfis	sh Burrows (C8)	
Algal Ma	at or Crust (E	34)		P	resence o	of Reduce	d Iron (C4	)	Satura	ation Visible on Aerial Imagery (C9)	
Iron Dep	oosits (B5)			т	hin Muck	Surface (	C7)		Geom	orphic Position (D2)	
1 .											

Inundation Visible on Ae	erial Imagery (B7)	Other (Explain in Remarks)	✓ FAC-Neutral Test (D5)
Water-Stained Leaves (	B9)		Frost-Heave Hummocks (D7) (LRR F)
Field Observations:			
Surface Water Present?	Yes 🖌 No 🔄	Depth (inches): 4	
Water Table Present?	Yes No	✓ Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes 🖌 No 🔄	Depth (inches):0	Wetland Hydrology Present? Yes <u>✓</u> No
Describe Recorded Data (st	ream gauge, monitorir	ng well, aerial photos, previous	inspections), if available:
Remarks:			

Project/Site: Stanley Municipal Airport	City/County: Mou	untrail County	Sampling Date: 2023-07-13		
Applicant/Owner: <u>Stanley Municipal Airport</u>		State: North Dakota	Sampling Point: <u>6</u>		
Investigator(s): <u>GM, HW</u>	Section, Township	o, Range: <u>sec 29 T156N R</u>	091W		
Landform (hillslope, terrace, etc.): Sideslope	Local relief (conca	ave, convex, none): <u>Convex</u>	Slope (%): <u>0-2</u>		
Subregion (LRR): LRR F, MLRA 53B Lat: 48	.306514	Long: <u>-102.415683</u>	Datum: WGS84		
Soil Map Unit Name: Williams-Zahl loams, 3 to 6 percent slopes NWI classification: None					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrology significantly	disturbed?	Are "Normal Circumstances" p	resent? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology naturally pro	oblematic?	(If needed, explain any answer	s in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing	g sampling poi	nt locations, transects,	important features, etc.		

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No <u> </u>
Remarks: Saline rim above wetland					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC
2				(excluding FAC-): (A)
3.				Total Number of Dominant
4				Species Across All Strata:3(B)
··		- Total Cov		
Sapling/Shrub Stratum (Plot size:)		- 10101 000		That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
1			·	Prevalence Index worksheet:
2				
3				
4				OBL species $0.00 \times 1 = 0.00$
5				FACW species <u>5.00</u> x 2 = <u>10.00</u>
	0	= Total Cov	/er	FAC species <u>0.00</u> x 3 = <u>0.00</u>
Herb Stratum (Plot size: 5)				FACU species <u>5.00</u> x 4 = <u>20.00</u>
1. <u>Malva neglecta</u>	10	Y	NI	UPL species <u>0.00</u> x 5 = <u>0.00</u>
2. <u>Epilobium ciliatum</u>	5	Υ	FACW	Column Totals: <u>10.00</u> (A) <u>30.00</u> (B)
3. Setaria pumila	5	Y	FACU	
4.				Prevalence Index = $B/A = 3.0$
5				Hydrophytic Vegetation Indicators:
6	·			1 - Rapid Test for Hydrophytic Vegetation
0			·	2 - Dominance Test is >50%
/				$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9	·			data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 20)	20.0	= Total Cov	/er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
(1 101 3120)				be present, unless disturbed or problematic.
2				Hydrophytic Vegetation
% Bare Ground in Herb Stratum 80	0	= Fotal Cov	/er	Present? Yes No 🖌
Remarks:				
Nomano.				

#### Sampling Point: 6

Profile Description: (Describe to the depth ne	eded to document the indicator or confirm	m the absence of indicators.)		
Depth <u>Matrix</u>	Redox Features			
(inches) Color (moist) % C	olor (moist) <u>%</u> Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks		
<u>    0-6    10YR   2/1    100                           </u>		Silt loam		
<u>6-13 2.5Y 3/2 100</u>		Silt loam		
<u>13-20 2.5Y 4/3 100</u>		Silt loam		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Red	uced Matrix. CS=Covered or Coated Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining. M=Matrix.		
Hydric Soil Indicators: (Applicable to all LRR	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol (A1)	Sandy Gleyed Matrix (S4)	1 cm Muck (A9) ( <b>LRR I, J</b> )		
Histic Epipedon (A2)	Sandy Redox (S5)	Coast Prairie Redox (A16) (LRR F, G, H)		
Black Histic (A3)	Stripped Matrix (S6)	Dark Surface (S7) (LRR G)		
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	High Plains Depressions (F16)		
Stratified Layers (A5) (LRR F)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)		
1 cm Muck (A9) (LRR F, G, H)	Depleted Matrix (F3)	Reduced Vertic (F18)		
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Red Parent Material (TF2)		
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)		
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Other (Explain in Remarks)		
2.5 cm Mucky Peat or Peat (S2) (LRR G, H)	— High Plains Depressions (F16)	<sup>3</sup> Indicators of hydrophytic vegetation and		
5 cm Mucky Peat or Peat (S3) ( <b>LRR F</b> )	(MLRA 72 & 73 of LRR H)	wetland hydrology must be present, unless disturbed or problematic.		
Restrictive Layer (if present):				
Туре:				
Depth (inches):		Hydric Soil Present? Yes No		
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; che	eck all that apply)	Secondary Indicators (minimum of two required)		
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)		
High Water Table (A2) Aquatic Invertebrates (B13)		Sparsely Vegetated Concave Surface (B8)		

 ( )	
 Sparsely Vegetated Concave Surface (B8	)
 Drainage Patterns (B10)	

	Ovidized	Rhizosph	oras	on Livina	Roots	(C3)
	, .		0103		110013	(00)

- \_\_\_\_ Crayfish Burrows (C8)
- \_\_\_\_ Saturation Visible on Aerial Imagery (C9)
- \_\_\_\_ Geomorphic Position (D2)
- \_\_\_\_ FAC-Neutral Test (D5)

Water-Stained Leaves (B	B9)	Frost-Heave Hummocks (D7) (LRR F)
Field Observations:		
Surface Water Present?	Yes No _ Depth (inches):	
Water Table Present?	Yes No _ 	
Saturation Present? (includes capillary fringe)	Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (str	eam gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:		

\_\_\_\_ Oxidized Rhizospheres on Living Roots (C3)

\_\_\_ Hydrogen Sulfide Odor (C1)

\_\_\_\_ Dry-Season Water Table (C2)

Presence of Reduced Iron (C4)

(where not tilled)

\_\_\_\_ Thin Muck Surface (C7)

\_\_\_\_ Other (Explain in Remarks)

\_ Saturation (A3)

\_\_\_\_ Drift Deposits (B3)

\_\_\_ Iron Deposits (B5)

Water Marks (B1) \_\_\_\_ Sediment Deposits (B2)

Algal Mat or Crust (B4)

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

Project/Site: Stanley Municipal Airport	City/County: Mount	rail County	Sampling Date: 2023-07-13	
Applicant/Owner: <u>Stanley Municipal Airport</u>		State: North Dakota	Sampling Point: 7	
Investigator(s): <u>GM, HW</u>	Section, Township, Range: <u>sec 29 T156N R091W</u>			
Landform (hillslope, terrace, etc.): Depression	Local relief (concave	, convex, none): <u>Concav</u>	e Slope (%): <u>0-2</u>	
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.306678	Long: <u>-102.413569</u>	Datum: <u>WGS84</u>	
Soil Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9	percent slopes	NWI classific	ation: <u>None</u>	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	"Normal Circumstances" p	resent? Yes 🖌 No	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If r	needed, explain any answe	rs in Remarks.)	
			• • • • • •	

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Iree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1			. <u> </u>	That Are OBL, FACW, or FAC
2			<u> </u>	$(excluding (AC-)). \qquad \underline{Z} \qquad (A)$
3				Total Number of Dominant
4			<u> </u>	Species Across All Strata:3(B)
	0	= Total Cov	rer	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: <u>15</u> ) 1.				That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
0			·	OBL species 0.00 x 1 = 0.00
4			·	FACW species <u>40.00</u> x 2 = <u>80.00</u>
o		Tatal Car		FAC species <u>10.00</u> x 3 = <u>30.00</u>
Herb Stratum (Plot size: 5)			er	FACU species $0.00 \times 4 = 0.00$
1 Hordeum jubatum	20	Y	FACW	UPL species $0.00 \times 5 = 0.00$
2 Malva neglecta	20	 	NI	Column Totals: 50.00 (A) 110.00 (B)
3. Persicaria pensulvanica	20	 		
A Persicaria virginiana	10	 N	FAC	Prevalence Index = $B/A = 2.2$
				Hydrophytic Vegetation Indicators:
5			·	1 - Rapid Test for Hydrophytic Vegetation
0				✓ 2 - Dominance Test is >50%
/				$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
8 9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	70.0	= Total Cov	rer	
Woody Vine Stratum (Plot size:30) 1.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Hydrophytic
	0	= Total Cov	er	Vegetation
% Bare Ground in Herb Stratum		10101 001	<b>.</b> .	Present? Yes <u>v</u> No
Remarks:				1

### Sampling Point: 7

Profile Desc	cription: (De	scribe to	o the dep	th needed	to docun	nent the i	ndicator	or confirn	n the absence o	of indicators.)	
Depth	N	latrix			Redo	x Features	S				
(inches)	Color (m	oist)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	<u>10YR</u>	2/1	100						Silt loam		
7-13	10YR	3/2	65	10YR	4/6	45	C	M	Silty clay		
13-24	2.5Y	3/1	100						Silty clay		
						·					
						·					
						·			<u> </u>		
		<u> </u>				·			·		
			. <u> </u>								
							<u> </u>	. <u> </u>			
<sup>1</sup> Type: C=C	oncentration,	D=Deple	etion, RM	Reduced N	latrix, CS	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (	Applica	ble to all	LRRs, unle	ess other	wise note	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)				Sandy C	Sleyed Ma	trix (S4)		1 cm M	uck (A9) ( <b>LRR I, J</b> )	
Histic El	pipedon (A2)				Sandy F	Redox (S5	)		Coast P	Prairie Redox (A16) (LRR F, G, H)	
Black H	istic (A3)				Stripped	Matrix (S	6)		Dark Su	urface (S7) (LRR G)	
Hydroge	en Sulfide (A4	.)		—	Loamy I	Mucky Mir	neral (F1)		High Pla	ains Depressions (F16)	
Stratified	d Layers (A5)	(LRR F)			Loamy (	Gleyed Ma	atrix (F2)		(LRF	R H outside of MLRA 72 & 73)	
1 cm Mu	uck (A9) (LRR	R F, G, H	)		Deplete	d Matrix (F	-3)		Reduce	d Vertic (F18)	
Deplete	d Below Dark	Surface	(A11)	<u> </u>	Redox L	Jark Surfa			Red Parent Material (TF2)		
Thick Da	ark Surface (A	412) L(04)		—	Deplete	d Dark Su	rface (F7)		Very Shallow Dark Surface (TF12)		
Sandy N	lucky Mineral	I (S1) - Deet (O		<b></b>	Redox L	Jepression	ns (F8)	4.0)	Other (Explain in Remarks)		
2.5 cm i	VIUCKY Peat of	r Peat (S		e, H)	High Pia	ains Depre	essions (F	16)	Indicators of hydrophytic vegetation and		
5 CM IVIU	ICKY Peat of F	Peat (53)				RA /2 & /	3 OF LRR	H)	wetland	nydrology must be present, disturbed or problematic	
Restrictive	Laver (if pres	sent):									
Type:	<i>y</i>	,									
Depth (in	ches):								Hydric Soil F	Present? Yes 🖌 No	
Remarks:											
HYDROLO	GY										
Wetland Hy	drology India	cators:									
Primary Indi	cators (minim	um of on	e require	d; check all	that apply	y)			<u>Secondar</u>	y Indicators (minimum of two required)	
Surface	Water (A1)			S	alt Crust	(B11)			Surfa	ace Soil Cracks (B6)	
High Wa	ater Table (A2	2)		A	quatic Inv	vertebrate	s (B13)		Spars	sely Vegetated Concave Surface (B8)	
Saturati	on (A3)			H	ydrogen	Sulfide Oc	dor (C1)		Drain	nage Patterns (B10)	
Water M	larks (B1)			D	ry-Seaso	n Water T	able (C2)		Oxidi	zed Rhizospheres on Living Roots (C3)	
🧹 Sedimer	nt Deposits (E	32)		0	xidized F	Rhizosphe	res on Liv	ing Roots	(C3) (wł	nere tilled)	
Drift De	posits (B3)				(where r	not tilled)			Crayf	fish Burrows (C8)	

- \_\_\_\_ Crayfish Burrows (C8)
- \_\_\_\_ Saturation Visible on Aerial Imagery (C9)
- ✓ Geomorphic Position (D2)
- ✓ FAC-Neutral Test (D5)
- \_\_\_\_ Frost-Heave Hummocks (D7) (LRR F)

Water-Stained Leaves (E	39)	Frost-Heave Hummocks (D7) (LRR F)				
Field Observations:						
Surface Water Present?	Yes No Depth (inches):					
Water Table Present?	Yes No _					
Saturation Present? (includes capillary fringe)	Yes No Depth (inches):	Wetland Hydrology Present? Yes <u>v</u> No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

Presence of Reduced Iron (C4)

\_\_\_\_ Thin Muck Surface (C7)

\_\_\_\_ Other (Explain in Remarks)

\_\_\_\_ Algal Mat or Crust (B4)

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

Iron Deposits (B5)

Project/Site: Stanley Municipal Airport	City/County: Mountra	ail County	Sampling Date: <u>2023-07-13</u>
Applicant/Owner: Stanley Municipal Airport		State: North Dakota	Sampling Point: <u>8</u>
Investigator(s): <u>GM, HW</u>	Section, Township, Ra	nge: <u>sec 29 T156N R</u>	091W
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave,	convex, none): <u>Convex</u>	Slope (%): <u>0-2</u>
Subregion (LRR): LRR F, MLRA 53B Lat: 48	.306582	Long: <u>-102.413775</u>	Datum: WGS84
Soil Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9	percent slopes	NWI classifica	tion: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes 🖌 No _	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	'Normal Circumstances" pr	esent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If ne	eded, explain any answers	s in Remarks.)

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Iree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2			<u> </u>	
3				Total Number of Dominant
4				Species Across All Strata:3(B)
	0	= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: <u>15</u> ) 1.				That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
2				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
3				OBL species 0.00 x 1 = 0.00
4				FACW species <u>20.00</u> x 2 = <u>40.00</u>
5		Tatal Oa		FAC species 0.00 x 3 = 0.00
Herb Stratum (Plot size: 5 )		= Total Cov	/er	FACU species $40.00 \times 4 = 160.00$
1 Amaranthus retroflexus	40	V	FACU	UPL species $0.00 \times 5 = 0.00$
2 Malva neglecta	<u>40</u>	 	NI	Column Totals: $60.00$ (A) $200.00$ (B)
2. Enilohium oiliotum	20			
	20	<u> </u>	FACW	Prevalence Index = $B/A = 3.33$
				Hydrophytic Vegetation Indicators:
o				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
/				3 - Prevalence Index is ≤3.0 <sup>1</sup>
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Weedy Vine Stratum (Plat size) 20	100.0	= Total Cov	/er	<sup>1</sup> Indicators of hydric soil and watland hydrology must
				be present, unless disturbed or problematic.
1			·	
2				Hydrophytic Vegetation
% Bare Ground in Herb Stratum	0	= I otal Cov	/er	Present? Yes No 🗸
Remarks:				1

#### Sampling Point: 8

Profile Descr	iption: (Describe	o the depth ne	eded to docun	nent the i	ndicator	or confirm	n the absence of ind	icators.)	
Depth	Depth Matrix Redox Features								
(inches)	Color (moist)	<u>    %      C</u>	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
	<u>10YR 2/1</u>	100		·			Silt loam		
	<u>10YR 3/1</u>	100					Silty clay		
13-20	2.5Y 3/1	100					Silty clay		
		·		·			·		
		·					·		
<sup>1</sup> Type: C=Cor	ncentration, D=Dep	etion, RM=Red	uced Matrix, CS	S=Covered	d or Coate	d Sand Gr	ains. <sup>2</sup> Location:	PL=Pore Lining	g, M=Matrix.
Hydric Soil In	idicators: (Applica	able to all LRR	s, unless other	wise note	ed.)		Indicators for Pr	oblematic Hyd	ric Solls":
Histosol (	A1)		Sandy C	Jeyed Ma	atrix (S4)		1 cm Muck (A	(9) (LRR I, J)	
Histic Epi	pedon (A2)		Sandy F	Kedox (55			Coast Prairie	Redox (A16) (L	_RR F, G, H)
Black His	A3)		Stripped	u Matrix (S	(E1)		Dark Surface	(57) (LRR G)	<b>C</b> )
Hydrogen	I Sullice (A4)	.)		Cloved Ma	(F1)				0) A 72 & 73)
		/ 1)	Loany (	d Matrix (F	E3)		Reduced Ver	tic (F18)	<b>1 / 2 (d / 3</b> )
Depleted	Below Dark Surface	•) e (A11)	Redox [	Dark Surfa	ice (F6)		Red Parent N	laterial (TF2)	
Thick Dar	rk Surface (A12)	()	Deplete	d Dark Su	irface (F7)		Verv Shallow	Dark Surface (	TF12)
Sandy Mu	ucky Mineral (S1)		Redox [	Depression	ns (F8)		Other (Explai	n in Remarks)	,
2.5 cm M	ucky Peat or Peat (	62) (LRR G, H)	High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators of hyd	rophytic vegeta	tion and
5 cm Muc	ky Peat or Peat (S3	3) (LRR F)	(ML	RA 72 & 7	73 of LRR	H)	wetland hydro	ology must be p	resent,
							unless disturl	oed or problema	atic.
Restrictive La	ayer (if present):								
Туре:									
Depth (incl	hes):						Hydric Soil Prese	nt? Yes	No 🖌
Remarks:							•		
HYDROLOG	ΞŶ								
Wetland Hvd	rology Indicators:								
Primary Indica	ators (minimum of o	ne required; che	eck all that apply	V)			Secondary Indi	cators (minimu	m of two required)
Surface V	Vater (A1)		Salt Crust	(B11)			Surface So	oil Cracks (B6)	
High Wate	er Table (A2)		Aquatic Inv	vertebrate	s (B13)		Sparsely V	egetated Conc	ave Surface (B8)
Saturation	n (A3)		Hydroaen	Sulfide Or	dor (C1)		Drainage F	atterns (B10)	(
Water Ma	arks (B1)		Drv-Seaso	n Water T	able (C2)		Oxidized R	hizospheres or	Living Roots (C3)
Sediment	Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled)						5 ()		

- Oxidized Rhizospheres on Living Roots (C3) (where not tilled)
- \_\_\_\_ Drift Deposits (B3) \_\_\_\_ Crayfish Burrows (C8) \_\_\_\_ Saturation Visible on Aerial Imagery (C9) \_ Algal Mat or Crust (B4) Presence of Reduced Iron (C4) \_\_\_\_ Iron Deposits (B5) \_\_\_\_ Thin Muck Surface (C7) Geomorphic Position (D2) \_\_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_\_ Other (Explain in Remarks) \_\_\_\_ FAC-Neutral Test (D5) Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F) \_\_\_\_ Field Observations: Surface Water Present? Yes \_\_\_\_\_ No \_\_\_ Depth (inches): \_\_\_\_ Yes \_\_\_\_\_ No \_\_\_ Depth (inches): \_\_\_\_\_ Water Table Present?

Yes \_\_\_\_\_ No \_\_\_ Depth (inches): \_\_\_\_ Wetland Hydrology Present? Yes \_\_\_\_ No \_\_\_

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

Remarks:

Saturation Present?

(includes capillary fringe)

Project/Site: Stanley Municipal Airport	_ City/County: <u>MC</u>	untrail County	Sampling Date: 2023-07-13			
Applicant/Owner: Stanley Municipal Airport	State: North Dakota	Sampling Point: 9				
Investigator(s): <u>GM, HW</u>	_ Section, Townsh	Section, Township, Range: <u>sec 29 T156N R091W</u>				
Landform (hillslope, terrace, etc.): Depression	Local relief (cond	cave, convex, none): <u>Concav</u>	<u>ve</u> Slope (%): <u>0-2</u>			
Subregion (LRR): LRR F, MLRA 53B Lat: 4	8.306718	Long: <u>-102.411916</u>	Datum: WGS84			
Soil Map Unit Name: Williams-Zahl loams, 3 to 6 percent s	lopes	NWI classific	cation: <u>None</u>			
Are climatic / hydrologic conditions on the site typical for this time of	year?Yes 🔽	No (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrologysignificant	ly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology naturally p	problematic?	(If needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No						

Hydrophytic Vegetation Present?	Yes	No 🖌	Is the Sampled Area		
Hydric Soil Present?	Yes 🖌	No	within a Wetland?	Vos	No 1
Wetland Hydrology Present?	Yes 🖌	No		163	
Remarks: Shallow depression and dry	/ conditior	IS.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1			·	That Are OBL, FACW, or FAC
2	_			(excluding FAC-): (A)
3.				Total Number of Dominant
4				Species Across All Strata:3 (B)
··	0	– Total Co	vor	
Sapling/Shrub Stratum (Plot size:15)	0	- 10101 00	VCI	That Are OBL, FACW, or FAC: 33.33 (A/B)
1.				
2.				Prevalence Index worksheet:
3			·	Total % Cover of: Multiply by:
۵ ۸			·	OBL species 0.00 x 1 = 0.00
4		·	·	FACW species x 2 =000
5			·	FAC species 40.00 x 3 = 120.00
Herb Stratum (Plot size: 5 )	0	= I otal Co	ver	FACU species $25.00 \times 4 = 100.00$
1. Echipophica orus galli	40	V	EAC	$\frac{1}{100} \text{ species} \qquad 0.00 \qquad \text{x} = 0.00$
	<u> </u>	 		Column Totala: $65.00$ (A) $220.00$ (B)
2. <u>Amarantnus retrofiexus</u>		<u> </u>	FACU	Column rotals. $05.00$ (A) $220.00$ (B)
3. <u>Malva neglecta</u>	20	<u> </u>	<u>NI</u>	Prevalence Index = $B/A = 3.38$
4				Hydrophytic Vegetation Indicators:
5		·	·	1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7		·		$3 - $ Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	85.0	= Total Co	ver	
Woody Vine Stratum (Plot size: 30)				he present unless disturbed or problematic
1		·	·	
2				Hydrophytic
	0	= Total Co	ver	Vegetation Present? Ves No /
% Bare Ground in Herb Stratum <u>15</u>				
Remarks:	iral prod	luction :	and dry	conditions are limiting hydrophytes
Alea was recently sprayed for agricult	nai piùc		anu ury '	conditions are infining hydrophytes.

#### Sampling Point: 9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth		Matrix			Redo	x Feature	S					
(inches)	Color (r	<u>noist)</u>	%	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7	<u>10YR</u>	2/1	100				·		Silt loam			
7-15	10YR	3/2	80	10YR	3/6	20	C	М	Silt loam			
15-23	2.5Y	3/1	100						<u>Silty clay</u>			
							·					
									<u> </u>			
									<u> </u>			
<sup>1</sup> Type: C=C	oncentratior	n, D=Depl	etion, RM=	Reduced	Matrix, CS	S=Covere	d or Coate	d Sand G	rains. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:	(Applica	able to all	LRRs, unl	ess othe	rwise not	ed.)		Indicators fo	r Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)				Sandy C	Gleyed Ma	atrix (S4)		1 cm Muo	ck (A9) ( <b>LRR I, J</b> )		
Histic E	pipedon (A2	)			Sandy F	Redox (S5	5)		Coast Pra	Coast Prairie Redox (A16) (LRR F, G, H)		
Black H	istic (A3)				Stripped	d Matrix (S	56)		Dark Surface (S7) (LRR G)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)				High Plains Depressions (F16)								
Stratifie	d Layers (At		) N		Loamy	Gleyed Ma	atrix (F2)		(LRR H outside of MLRA 72 & 73)			
	JCK (A9) (LR d Bolow Dou		1) \(\(\) (\(\) (\(\) \(\) \(\) (\(\) \(\		Depiete	a Matrix (	F3) 200 (E6)		Reduced Venic (F18) Red Parent Material (TE2)			
Depiete	ark Surface	(Δ12)	= (ATT)	<u> </u>		d Dark Suite	urface (FO)		Very Shallow Dark Surface (TE12)			
Sandy M	Aucky Miner	(S12)			Redox [	Denressio	ns (F8)		Other (Explain in Remarks)			
2.5 cm l	Mucky Peat	or Peat (S	52) ( <b>LRR (</b>	<b>.</b> H)	High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators of hydrophytic vegetation and			
5 cm Mi	ucky Peat or	Peat (S3	3) (LRR F)		(ML	RA 72 &	73 of LRR	H)	wetland hydrology must be present,			
		,	, , ,					,	unless di	sturbed or problematic.		
Restrictive	Layer (if pro	esent):										
Туре:												
Depth (in	ches):								Hydric Soil Pr	resent? Yes 🖌 No		
Remarks:												
HYDROLO	GY											
Wetland Hy	drology Inc	licators:										
Primary Indi	cators (minii	mum of or	ne required	l; check all	that appl	y)			Secondary	Indicators (minimum of two required)		
Surface	Water (A1)			S	Salt Crust	(B11)			Surfac	e Soil Cracks (B6)		
High Wa	ater Table (A	A2)		A	Aquatic In	vertebrate	es (B13)		Sparse	ely Vegetated Concave Surface (B8)		
Saturati	on (A3)			F	lydrogen	Sulfide O	dor (C1)		Draina	ge Patterns (B10)		
Water M	larks (B1)			Dry-Season Water Table (C2)				Oxidiz	ed Rhizospheres on Living Roots (C3)			

- Oxidized Rhizospheres on Living Roots (C3) (where tilled)
- \_\_\_\_ Crayfish Burrows (C8)
- \_\_\_\_ Saturation Visible on Aerial Imagery (C9)
- ✓ Geomorphic Position (D2)
- \_\_\_\_ FAC-Neutral Test (D5)

Water-Stained Leaves (B	39)				Frost-Heave Humme	ocks (D7) (I	LRR F)
Field Observations:							
Surface Water Present?	Yes	No 🖌	Depth (inches):				
Water Table Present?	Yes	No 🖌	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	No 🖌	Depth (inches):		Wetland Hydrology Present? Ye	es 🖌	No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

\_\_\_\_ Oxidized Rhizospheres on Living Roots (C3)

(where not tilled)

\_\_\_\_ Thin Muck Surface (C7)

\_\_\_\_ Other (Explain in Remarks)

Presence of Reduced Iron (C4)

Sediment Deposits (B2)

\_\_\_\_ Algal Mat or Crust (B4)

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

\_\_\_\_ Drift Deposits (B3)

\_\_\_\_ Iron Deposits (B5)

Project/Site: Stanley Municipal Airport	City/County: Mountrail County Sampling Date: 2023-0					
Applicant/Owner: Stanley Municipal Airport	State: North Dakota Sampling Point: 10					
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W					
Landform (hillslope, terrace, etc.): Sideslope	Local relief (concave, convex, none): <u>Co</u>	nvex Slope (%): 0-2				
Subregion (LRR): LRR F, MLRA 53B Lat: 48	.306683 Long: <u>-102.412</u>					
Soil Map Unit Name: Williams-Zahl loams, 3 to 6 percent sl	NWI cla	assification: <u>None</u>				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No (If no, explain	n in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstan	ces" present? Yes 🖌 No				
Are Vegetation, Soil, or Hydrology naturally provide the second seco	bblematic? (If needed, explain any a	inswers in Remarks.)				

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				$(\text{excluding FAC-}): \qquad \qquad \underbrace{0}_{(A)}$
3				Total Number of Dominant
4				Species Across All Strata: (B)
	0	= Total Cov	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 )				That Are OBL, FACW, or FAC: 0.00 (A/B)
1				
2				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4.				OBL species x 1 =000
5				FACW species <u>0.00</u> x 2 = <u>0.00</u>
0		- Total Cov		FAC species 0.00 x 3 = 0.00
Herb Stratum (Plot size: 5)		- 10101 001		FACU species <u>40.00</u> x 4 = <u>160.00</u>
1. Linum spp.	60	Y	NI	UPL species x 5 =0.00
2 Amaranthus retroflexus	40	Ý	FACU	Column Totals: 40.00 (A) 160.00 (B)
3				
4				Prevalence Index = $B/A = 4.0$
				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0 <sup>1</sup>
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	100.0	= Total Cov	ver	
Woody Vine Stratum (Plot size: 3())				Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
1				
2				Hydrophytic
	0	= Total Cov	ver	Vegetation Present? Ves No v
% Bare Ground in Herb Stratum				
Planted agricultural flax				

## Sampling Point: 10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	N	latrix		Redo	x Feature	s			
(inches)	Color (mo	oist)	<u>%</u> (	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	<u>10YR</u>	<u>2/2 ´</u>	100					<u>Silt loam</u>	
7-12	<u>10YR</u>	<u>3/2 ´</u>	100					<u>Silt loam</u>	
12-14	2.5Y	5/2	100					Loam	
14-28	2.5Y	<u>3/2</u>	100					<u>Silty clay</u>	
<sup>1</sup> Type: C=C	oncentration,	D=Depletio	on, RM=Rec	luced Matrix, CS	S=Covere	d or Coate	d Sand Gi	rains. <sup>2</sup> Loo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)					16) H)	1 cm M Coast Dark S High P (LR Reduc Red Pa Very S Other of 3 Indicators wetland unless	Muck (A9) (LRR I, J) Prairie Redox (A16) (LRR F, G, H) Surface (S7) (LRR G) Plains Depressions (F16) R H outside of MLRA 72 & 73) ed Vertic (F18) arent Material (TF2) Shallow Dark Surface (TF12) (Explain in Remarks) of hydrophytic vegetation and d hydrology must be present, disturbed or problematic.  Present? Yes No		
HYDROLO	GY								
Wetland Hy	drology India	cators:							
Primary Indi	cators (minim	um of one	required: ch	eck all that appl	V)			Seconda	ary Indicators (minimum of two required)
Surface	Water (A1)			Salt Crust	,, (B11)			Surf	face Soil Cracks (B6)
High Wa	ater Table (A2	2)		Aquatic In	vertebrate	s (B13)		Sna	rsely Vegetated Concave Surface (B8)
Saturati	on (A3)	-,		Hydrogen	Sulfide O	dor (C1)		Opa Drai	inage Patterns (B10)
Water M	larks (B1)			Drv-Seaso	on Water 7	able (C2)		Oxic	dized Rhizospheres on Living Roots (C3)
Sedime	nt Deposits (B	32)		Oxidized F	Rhizosphe	res on Livi	ing Roots	(C3) (w	/here tilled)
Drift De	posits (B3)	/		(where	not tilled)		3	Crav	yfish Burrows (C8)
Algal Ma	at or Crust (B₄	4)		Presence	of Reduce	ed Iron (C4	-)	Satu	uration Visible on Aerial Imagery (C9)
Iron De	posits (B5)			Thin Muck	Surface (	(C7)	-	Geo	omorphic Position (D2)
Inundat	ion Visible on	Aerial Imag	gery (B7)	Other (Exp	olain in Re	emarks)		FAC	C-Neutral Test (D5)

 Geomor	phic Po	sition (D2)
EAO NI		

- FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)

Surface Water Present?	Yes N	No 🖌	Depth (inches):			
Water Table Present?	Yes N	No 🖌	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes N	No 🖌	Depth (inches):	Wetland Hydrology Present?	Yes	No <u>/</u>
Describe Recorded Data (strea	m gauge, mo	onitoring w	ell, aerial photos, previous inspec	tions), if available:		

Remarks:

\_\_\_\_\_

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

Water-Stained Leaves (B9)

Field Observations:

Project/Site: Stanley Municipal Airport	City/County: Mou	untrail County	Sampling Date: 2023-07-13			
Applicant/Owner: <u>Stanley Municipal Airport</u>	State: North Dakota Sampling Point: 11					
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W					
Landform (hillslope, terrace, etc.): Depression	Local relief (conc	ave, convex, none): <u>Concav</u> e	e Slope (%): <u>0-2</u>			
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.298808	Long: <u>-102.408242</u>	Datum: WGS84			
Soil Map Unit Name: Appam sandy loam, 2 to 6 percent slo	opes	NWI classifica	ation: <u>None</u>			
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes 🖌	No (If no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrology significantly	y disturbed?	Are "Normal Circumstances" p	resent? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answer	s in Remarks.)			
CUMMARY OF FINDINGS Attack site man showin		at logations there are				

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				$(excluding FAC-): \qquad \underline{3} \qquad (A)$
3				Total Number of Dominant
4				Species Across All Strata: (B)
	0	= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 )				That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
1				Drevelance in dev weeke eet
2				
3				I otal % Cover of: Multiply by:
4				OBL species <u>0.00</u> x 1 = <u>0.00</u>
5.				FACW species <u>60.00</u> x 2 = <u>120.00</u>
	0	= Total Cov	/er	FAC species <u>40.00</u> x 3 = <u>120.00</u>
Herb Stratum (Plot size: 5)				FACU species <u>0.00</u> x 4 = <u>0.00</u>
1. <u>Hordeum jubatum</u>	40	Y	FACW	UPL species <u>0.00</u> x 5 = <u>0.00</u>
2. <u>Echinochloa crus-galli</u>	30	Y	FAC	Column Totals: <u>100.00</u> (A) <u>240.00</u> (B)
3. Persicaria pensylvanica	20	Y	FACW	
4. Rumex crispus	10	N	FAC	Prevalence Index = $B/A = 2.4$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
0				$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
0				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30 )	100.0	= Total Cov	/er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
··				Hadaaa kada
۲		Tetal O		Hydropnytic Vegetation
% Bare Ground in Herb Stratum		= I otal Cov	/er	Present? Yes <u>v</u> No
Remarks:				1
Cattails in interior of basin				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	Matrix Redox Features											
(inches)	Color (	moist)	%	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	<u>10YR</u>	2/2	100						Silt loam			
2-6	10YR	2/2	95	10YR	3/6	5	C	M	Silt loam			
6-15	10YR	3/2	98	10YR	3/6	2	C	Μ	Silt loam		<u> </u>	
15-20	10Y	4/2	100						Silt loam		<u> </u>	
<sup>1</sup> Type: C=C	oncentration	n, D=Dep	letion, RM=	=Reduced N	Matrix, CS	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=M	atrix.	
Hydric Soil	Indicators:	(Applica	able to all	LRRs, unle	ess other	wise not	ed.)		Indicators for	or Problematic Hydric Soi	ls³:	
Histosol	(A1)				Sandy C	Bleyed Ma	trix (S4)		1 cm Mu	uck (A9) ( <b>LRR I, J</b> )		
Histic Ep	pipedon (A2	2)			Sandy F	Redox (S5	)		Coast Prairie Redox (A16) (LRR F, G, H)			
Black Hi	istic (A3)				Stripped	Matrix (S	6)		Dark Surface (S7) (LRR G)			
Hydroge	en Sulfide (A	4)			Loamy Mucky Mineral (F1)					High Plains Depressions (F16)		
Stratified	d Layers (A	5) ( <b>LRR F</b>	-)		Loamy (	Gleyed Ma	atrix (F2)		(LRR H outside of MLRA 72 & 73)			
1 cm Mu	uck (A9) (LF	R F, G, H	H)		Deplete	d Matrix (I	=3)		Reduced Vertic (F18)			
Deplete	d Below Da	rk Surface	e (A11)	~	Redox D	Dark Surfa	ice (F6)		Red Parent Material (TF2)			
Thick Da	ark Surface	(A12)			Deplete	d Dark Su	rface (F7)		Very Shallow Dark Surface (TF12)			
Sandy N	/lucky Miner	ral (S1)			Redox D	Depressio	ns (F8)		Other (Explain in Remarks)			
2.5 cm M	Mucky Peat	or Peat (	S2) (LRR (	G, H)	High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators of hydrophytic vegetation and			
5 cm Mu	ucky Peat or	r Peat (S3	B) (LRR F)		(ML	RA 72 & 7	73 of LRR	H)	wetland hydrology must be present,			
									unless d	listurbed or problematic.		
Restrictive	Layer (if pr	esent):										
Туре:												
Depth (inches):									Hydric Soil P	Present? Yes 🖌 N	lo	
Remarks:									•			

## HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Salt Crust (B11)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1) Dry-Season Water Table (C	2) Oxidized Rhizospheres on Living Roots (C3)
Sediment Deposits (B2) Oxidized Rhizospheres on L	iving Roots (C3) (where tilled)
Drift Deposits (B3) (where not tilled)	Crayfish Burrows (C8)
Algal Mat or Crust (B4) Presence of Reduced Iron (	C4) Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	_ ✓ FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Frost-Heave Hummocks (D7) (LRR F)
Field Observations:	
Surface Water Present? Yes No _ Lepth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No V Depth (inches):	Wetland Hydrology Present? Yes <u>v</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous i	nspections), if available:
Remarks:	

I

Project/Site: Stanley Municipal Airport	City/County: Mou	ntrail County	Sampling Date: <u>2023-07-13</u>		
Applicant/Owner: Stanley Municipal Airport	State: North Dakota Sampling Point: <u>12</u>				
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W				
Landform (hillslope, terrace, etc.): Sideslope	Local relief (conca	ve, convex, none): <u>Convex</u>	Slope (%): <u>0-2</u>		
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.298813	Long: <u>-102.408424</u>	Datum: WGS84		
Soil Map Unit Name: Appam sandy loam, 2 to 6 percent slo	pes	NWI classifica	tion: <u>None</u>		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🖌 🖌	lo (If no, explain in Re	marks.)		
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? A	Are "Normal Circumstances" pr	esent? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (	If needed, explain any answer	s in Remarks.)		

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				(excluding FAC-): $2$ (A)
3				Total Number of Dominant
4.				Species Across All Strata: (B)
	0	= Total Cov	er	Demonst of Dominant Creation
Sapling/Shrub Stratum (Plot size:15)				That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
1				Provolonoo Index workshooti
2				
3				
4				OBL species $0.00$ x 1 = $0.00$
5.				FACW species <u>20.00</u> x 2 = <u>40.00</u>
	0	= Total Cov	rer	FAC species <u>20.00</u> x 3 = <u>60.00</u>
Herb Stratum (Plot size: 5)				FACU species <u>50.00</u> x 4 = <u>200.00</u>
1. <u>Bassia scoparia</u>	50	Y	FACU	UPL species <u>0.00</u> x 5 = <u>0.00</u>
2. <u>Echinochloa crus-galli</u>	20	Y	FAC	Column Totals: <u>90.00</u> (A) <u>300.00</u> (B)
3. Hordeum iubatum	20	Y	FACW	
4				Prevalence Index = $B/A = 3.33$
5				Hydrophytic Vegetation Indicators:
			·	1 - Rapid Test for Hydrophytic Vegetation
0				✓ 2 - Dominance Test is >50%
/		·	·	3 - Prevalence Index is ≤3.0 <sup>1</sup>
o				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 10			·	data in Remarks or on a separate sheet)
10		Tatal Car		Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum (Plot size: 30)	90.0	= Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2		·		Hydrophytic
		- Total Cov		Vegetation
% Bare Ground in Herb Stratum10				Present? Yes <u>v</u> No
Remarks:				

### Sampling Point: 12

Profile Des	cription: (D	escribe	to the depth ne	eded to docu	ment the	indicator	or confir	m the absence of inc	licators.)	
Depth	pth <u>Matrix</u>			Redo	ox Feature	S	. 0			
(inches)	Color (I	<u>noist)</u>	<u>%</u> C	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	<u>10YR</u>	2/2	100					Silt loam		
7-14	<u>10YR</u>	3/2	100					Silt loam		
14-20	<u>10YR</u>	3/3	100					Silt loam		
			· ·					· ·		
			· ·					· ·		
<sup>1</sup> Type: C=C		n, D=Dep	letion, RM=Red	uced Matrix, C	S=Covere	d or Coate	d Sand G	Grains. <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.	
Hydric Soll	indicators:	(Applic	able to all LKK	s, unless othe	rwise not	ed.)				
Histoso	l (A1) ninadan (A2			Sandy	Gleyed Ma	atrix (S4)		1 cm Muck (	A9) (LRR I, J)	
	pipedon (A2	)		Sandy	Redox (St d Motrix (S	D) Se)		Coast Prairie Redox (A16) (LRR F, G, H)		
	an Sulfide (A	(4)			u Mucky Mi	neral (F1)		Ligh Plains Depressions (E16)		
Nyuruge Stratifie	d Lavers (A	5) (I RR F	=)		Gleved M	atrix (F2)		(I RR H outside of MI RA 72 & 73)		
0 araane	uck (A9) (LR	2R F. G. I	/ -1)	Deplete	ed Matrix (	F3)		Reduced Vertic (F18)		
Deplete	d Below Da	rk Surfac	e (A11)	Redox	Dark Surfa	ace (F6)		Red Parent Material (TF2)		
Thick D	ark Surface	(A12)	- ()	Deplete	ed Dark Su	urface (F7)		Very Shallow Dark Surface (TF12)		
Sandy M	Mucky Miner	al (S1)		Redox	Depressio	ons (F8)		Other (Explain in Remarks)		
2.5 cm	Mucky Peat	or Peat (	S2) (LRR G, H)	High Pl	ains Depr	essions (F	16)	<sup>3</sup> Indicators of hydrophytic vegetation and		
5 cm M	ucky Peat or	Peat (S	3) (LRR F)	(MLRA 72 & 73 of LRR H)			H)	wetland hydrology must be present,		
	-			, ,				unless disturbed or problematic.		
Restrictive	Layer (if pr	esent):								
Туре:										
Depth (in	iches):							Hydric Soil Prese	ent? Yes No 🖌	
Remarks:										
	GY									
Wetland Hy	drology Inc	licators:								
Primary Indi	cators (mini	mum of o	ne required; che	ck all that app	ly)			Secondary Ind	licators (minimum of two required)	
Surface	Water (A1)			Salt Crust (B11)				Surface S	oil Cracks (B6)	
High Wa	ater Table (A	42)		Aquatic Invertebrates (B13)				Sparselv \	/egetated Concave Surface (B8)	
Saturati	on (A3)	,		Hydrogen Sulfide Odor (C1)				Drainage	Patterns (B10)	
Water Marks (B1)			Dry-Seaso	on Water	Table (C2)		Oxidized Rhizospheres on Living Roots (C3)			

- \_\_\_\_ Oxidized Rhizospheres on Living Roots (C3) (where tilled)
- \_\_\_ Crayfish Burrows (C8)
- \_\_\_\_ Saturation Visible on Aerial Imagery (C9)
- \_\_\_\_ Geomorphic Position (D2)
- \_\_\_\_ FAC-Neutral Test (D5)
- \_\_\_\_ Frost-Heave Hummocks (D7) (LRR F)

Water-Stained Leaves (	B9)		Frost-Heave Hummocks (D7) (LRR F)					
Field Observations:								
Surface Water Present?	Yes	No 🖌	Depth (inches):					
Water Table Present?	Yes	No 🖌	Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes	No 🖌	Depth (inches):	Wetland Hydrology Present? Yes No _ ✓				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								

\_\_\_\_ Oxidized Rhizospheres on Living Roots (C3)

(where not tilled)

\_\_\_\_ Thin Muck Surface (C7)

\_\_\_\_ Other (Explain in Remarks)

Presence of Reduced Iron (C4)

\_\_\_\_ Sediment Deposits (B2)

\_ Algal Mat or Crust (B4)

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

\_\_\_\_ Drift Deposits (B3)

\_\_\_\_ Iron Deposits (B5)

State: North Dakota Sampling Point: 13							
, Township, Range: <u>sec 29 T156N R091W</u>							
elief (concave, convex, none): <u>Concave</u> Slope (%): <u>0-2</u>							
37Long: <u>-102.415381</u> Datum: <u>WGS84</u>							
NWI classification: None							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)							
ed? Are "Normal Circumstances" present? Yes <u>v</u> No							
atic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
is the Sampled Area within a Wetland? Yes <u>✓</u> No							
) - is v							

Remarks: Depression wetland in swale location

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species? Status	- Number of Dominant Species
1			That Are OBL, FACW, or FAC
2			- (A)
3			Total Number of Dominant
4			Species Across All Strata: (B)
	0	= Total Cover	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15)			That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
1			
2			Tatal 0 Course of Multiply Inc.
3			
4			OBL species $0.00 \times 1 = 0.00$
5			FACW species <u>100.00</u> x 2 = <u>200.00</u>
	0	= Total Cover	FAC species <u>0.00</u> x 3 = <u>0.00</u>
Herb Stratum (Plot size: 5)			FACU species <u>0.00</u> x 4 = <u>0.00</u>
1. <u>Phalaris arundinacea</u>	100	Y FACW	UPL species <u>0.00</u> x 5 = <u>0.00</u>
2			Column Totals: <u>100.00</u> (A) <u>200.00</u> (B)
3			
4.			Prevalence Index = $B/A = 2.0$
5.			Hydrophytic Vegetation Indicators:
6			✓ 1 - Rapid Test for Hydrophytic Vegetation
7		··	∠ 2 - Dominance Test is >50%
°			$\checkmark$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
0			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9			- data in Remarks or on a separate sheet)
10			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30)	100.0	= I otal Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1			be present, unless disturbed or problematic.
1			
<u>ک</u>		Tatal Causa	Vegetation
% Bare Ground in Herb Stratum	0	= Total Cover	Present? Yes <u>~</u> No
Remarks:			
Cattails in interior of basin.			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix Redox Feature						s					
(inches)	Color (r	noist)	%	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	<u>10YR</u>	2/2	100						Silt loam		
6-16	10YR	3/2	94	10YR	3/6	6	C	M	Silt loam		
				-			·				
							·		·		
									·		
									·		
<sup>1</sup> Type: C=Co	oncentration	. D=Depl	etion. RM	=Reduced N	/latrix. CS	=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Location:	PL=Pore Lining. M=Matrix.	
Hydric Soil	Indicators:	(Applica	able to all	LRRs, unle	ess other	wise not	ed.)		Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)				Sandy G	Bleyed Ma	atrix (S4)		1 cm Muck (A9) ( <b>LRR I, J</b> )		
Histic Ep	pipedon (A2)	)			Sandy R	Redox (S5	5)		Coast Prairie Redox (A16) (LRR F, G, H)		
Black Hi	stic (A3)				Stripped	Matrix (S	66)		Dark Surface (S7) (LRR G)		
Hydroge	n Sulfide (A	4)			Loamy N	Aucky Mir	neral (F1)		High Plains Depressions (F16)		
Stratified	d Layers (A5	5) (LRR F	)		Loamy C	Gleyed Ma	atrix (F2)		(LRR H outside of MLRA 72 & 73)		
1 cm Mu	ıck (A9) ( <b>LR</b>	R F, G, H	I)		Depleted	d Matrix (	F3)		Reduced Vertic (F18)		
Depleted	d Below Dar	k Surface	e (A11)	~	Redox D	Dark Surfa	ace (F6)		Red Parent Material (TF2)		
Thick Da	ark Surface	(A12)			Depleted	d Dark Su	ırface (F7)		Very Shallow Dark Surface (TF12)		
Sandy M	lucky Miner	al (S1)			Redox D	Depressio	ns (F8)		Other (Explain in Remarks)		
2.5 cm N	/lucky Peat	or Peat (S	52) ( <b>LRR (</b>	G, H)	High Pla	ins Depre	essions (F	16)	<sup>3</sup> Indicators of hydrophytic vegetation and		
5 cm Mu	icky Peat or	Peat (S3	3) (LRR F)		(MLI	RA 72 & 1	73 of LRR	H)	wetland hydrology must be present,		
									unless disturb	bed or problematic.	
Restrictive I	_ayer (if pre	esent):									
Туре:											
Depth (inches):									Hydric Soil Prese	nt? Yes 🖌 No	
Remarks:											
HYDROLO	GY										

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; cl	heck all that apply)	Secondary Indicators (minimum of two required)		
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)		
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Water Marks (B1)	Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	(where tilled)		
Drift Deposits (B3)	(where not tilled)	Crayfish Burrows (C8)		
_ Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)		
Iron Deposits (B5)	Thin Muck Surface (C7)	<ul> <li>Geomorphic Position (D2)</li> </ul>		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)		
Field Observations:				
Surface Water Present? Yes No	✓ Depth (inches):			
Water Table Present? Yes No	✓ Depth (inches):			
Saturation Present? Yes <u>No</u> (includes capillary fringe)	✓ Depth (inches): Wetlar	Wetland Hydrology Present? Yes <u></u> No		
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections), if	available:		
Remarks:				

Project/Site: Stanley Municipal Airport	City/County: Mo	untrail County	Sampling Date: 2023-07-13					
Applicant/Owner: <u>Stanley Municipal Airport</u>	State: North Dakota Sampling Point: 14							
Investigator(s): <u>GM, HW</u>	Section, Township, Range: <u>sec 29 T156N R091W</u>							
Landform (hillslope, terrace, etc.): Sideslope	Local relief (conc	ave, convex, none): <u>Convex</u>	Slope (%): <u>0-2</u>					
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.298737	Long: <u>-102.415161</u>	Datum: WGS84					
Soil Map Unit Name: Divide loam, 0 to 2 percent slopes		NWI classifica	ation: <u>None</u>					
Are climatic / hydrologic conditions on the site typical for this time of y	Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly	/ disturbed?	Are "Normal Circumstances" p	resent? Yes 🖌 No					
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answer	s in Remarks.)					
	<b>.</b>		•					

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>I ree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				$\int A = 0$ (A)
2		·	·	
3			·	Total Number of Dominant
4			·	Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 15)	0	= Total Cov	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)
1				Prevalence Index worksheet:
2			·	Total % Cover of: Multiply by:
3			·	$\frac{1}{1} \frac{1}{1} \frac{1}$
4		. <u> </u>		EACW species $0.00 \times 2 = 0.00$
5				$EAC species = 0.00 \times 2 = 0.00$
	0	= Total Cov	ver	FACt species $0.00 \times 3 = 0.00$
Herb Stratum (Plot size: 5)				FACO species $100.00$ x 4 = $400.00$
1. <u>Bassia scoparia</u>	60	<u>     Y                               </u>	FACU	$\begin{array}{c} \text{UPL species} & \underline{0.00} & \text{X}5 = \underline{0.00} \\ \text{OPL species} & \underline{100} & \text{OPL species} \end{array}$
2. <u>Elymus repens</u>	40	<u> </u>	FACU	Column Lotals: $100.00$ (A) $400.00$ (B)
3			<u> </u>	Prevalence Index = $B/A = 4.0$
4			·	Hydrophytic Vegetation Indicators:
5			·	1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				$\frac{1}{2} = \frac{2}{2} = \frac{1}{2} = \frac{1}$
8				5 - Flevalence index is 25.0
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: <u>30</u> )	100.0	= Total Cov	ver	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Hydrophytic
% Bare Ground in Herb Stratum	0	= Total Cov	ver	Vegetation Present? Yes <u>No v</u>
Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redox	<u> Features</u>						
(inches)	Color (moist)	<u> </u>	olor (moist)		Type'	_Loc <sup>∠</sup>	Texture Remarks			
0-6	<u>10YR 2/2</u>	100					Loam			
6-14	<u>10YR 3/2</u>	100		·			Loam			
14-20	2.5Y 4/2	100					Loam			
				·						
	oncontration D-Depl	otion RM-Red	ucod Matrix CS		or Coate		aine <sup>2</sup> l acation: PL-Pore Lining M-Matrix			
Hvdric Soil	Indicators: (Applica	able to all LRR:	s. unless other	wise note	<u>d.</u> )	u Sanu Gra	Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Sandy G	leved Mat	rix (S4)		1 cm Muck (A9) ( <b>I BB I</b> . <b>I</b> )			
Histic Er	Histic Epipedon (A2) Sandy Redox (S5)					Coast Prairie Redox (A16) (LRR F, G, H)				
Black H	istic (A3)		Stripped	Matrix (S6	3)		Dark Surface (S7) (LRR G)			
Hydroge	en Sulfide (A4)		Loamy N	Jucky Mine	, eral (F1)		High Plains Depressions (F16)			
Stratifie	d Layers (A5) ( <b>LRR F</b>	)	Loamy C	Sleyed Mat	trix (F2)		(LRR H outside of MLRA 72 & 73)			
1 cm Mւ	1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3)					Reduced Vertic (F18)				
Deplete	d Below Dark Surface	∍ (A11)	Redox D	ark Surfac	;e (F6)		Red Parent Material (TF2)			
Thick Da	ark Surface (A12)		Depleted	d Dark Surf	face (F7)	1	Very Shallow Dark Surface (TF12)			
Sandy M	/lucky Mineral (S1)		Redox D	epression	s (F8)		Other (Explain in Remarks)			
2.5 cm M	Mucky Peat or Peat (S	32) ( <b>LRR G, H</b> )	High Pla	ins Depres	ssions (F	16)	<sup>3</sup> Indicators of hydrophytic vegetation and			
5 cm Μι	ucky Peat or Peat (S3	) (LRR F)	(MLF	RA 72 & 73	3 of LRR	. <b>H</b> )	wetland hydrology must be present,			
<u> </u>							unless disturbed or problematic.			
Restrictive	Layer (if present):									
l ype:	• 、									
Depth (In	ches):						Hydric Soil Present? Yes No			
Remarks:										
ĺ										
HYDROLO	GY									
Wetland Hy	drology Indicators:									
Primary Indi	cators (minimum of or	ne required; che	ck all that apply	/)			Secondary Indicators (minimum of two required)			
Surface	Water (A1)		Salt Crust (	(B11)			Surface Soil Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Inv	vertebrates	(B13)		Sparsely Vegetated Concave Surface (B8)			
Saturation (A3) Hydrogen Sulfide Odor (C1)					Drainage Patterns (B10)					

Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3)
Oxidized Rhizospheres on Living Roots (C3)	(where tilled)

_ Oxidized Rhizospheres on Living Roots (C3)	(where tilled)
(where not tilled)	Crayfish Burrows (C8)

Algal Mat or Crust (B4)				Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
Iron Deposits (B5)				Thin Muck Surface (C7)			
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Remarks)		FAC-Neutral Test (D5)			
Water-Stained Leaves (B	89)				Frost-Heave Hummocks (D7) (LRR F)		
Field Observations:							
Surface Water Present?	Yes	No _	r	Depth (inches):			
Water Table Present?	Yes	No	r	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes	No	~	Depth (inches):	Wetland Hydrology Present? Yes No		
Describe Recorded Data (stre	eam gauge	e, monito	ring	well, aerial photos, previous inspec	ctions), if available:		

\_\_\_\_

Remarks:

\_\_\_\_

Water Marks (B1)

Drift Deposits (B3)

Sediment Deposits (B2)

~

Project/Site: <u>Stanley Municipal Airport</u>	City/County: Mo	untrail County	Sampling Date: 2023-07-13			
Applicant/Owner: <u>Stanley Municipal Airport</u>	State: North Dakota Sampling Point: 50					
Investigator(s): <u>GM, HW</u>	Section, Townshi	Section, Township, Range: sec 29 T156N R091W				
Landform (hillslope, terrace, etc.): None	Local relief (cond	Local relief (concave, convex, none): <u>None</u>				
Subregion (LRR): LRR F, MLRA 53B Lat: 4	8.304621	Long: <u>-102.398566</u>	Datum: WGS84			
Soil Map Unit Name: Williams-Zahl loams, 3 to 6 percent s	opes NWI classification: PEM1A					
Are climatic / hydrologic conditions on the site typical for this time of y	vear?Yes 🖌	No (If no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrology significant	y disturbed?	Are "Normal Circumstances" p	resent? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology naturally p	roblematic?	(If needed, explain any answer	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				$(\text{excluding FAC-}): \qquad \qquad \underbrace{\textbf{0}}_{(A)}$
3				Total Number of Dominant
4				Species Across All Strata: (B)
	0	= Total Cov	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15)				That Are OBL, FACW, or FAC: 0.00 (A/B)
1				
2				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4				OBL species <u>0.00</u> x 1 = <u>0.00</u>
5	·			FACW species <u>0.00</u> x 2 = <u>0.00</u>
		Tatal Car		FAC species 0.00 x 3 = 0.00
Herb Stratum (Plot size: 5)			ei	FACU species $0.00 \times 4 = 0.00$
1 Glycine max	60	Y	LIPI	UPL species $60.00 \times 5 = 300.00$
				Column Totals: $60.00$ (A) $300.00$ (B)
2				
S	·			Prevalence Index = $B/A = 5.0$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6		. <u> </u>		2 - Dominance Test is >50%
7				$3 - $ Prevalence Index is $< 3.0^{1}$
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	60.0	= Total Cov	/er	
Woody Vine Stratum (Plot size: <u>30</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed of problematic.
2				Hydrophytic
	0	= Total Cov	/er	Vegetation
% Bare Ground in Herb Stratum <u>40</u>				Present? Yes No V
Remarks:			and ar	oon ooh in trooling
Smooth brome in hearby unclopped and	ea. Diut	spruce	anu gr	

Profile Desc	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth		Matrix		Redo	x Feature	s			
(inches)	Color (n	noist)	<u>%</u> C	olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Re	emarks
0-7	<u>10YR</u>	2/2	100					Loam	
7-16	<u>10YR</u>	3/2	100					Loam	
16-20	10YR	4/2	_100					Loam	
<sup>1</sup> Type: C=Co		, D=Depl	etion, RM=Redu	uced Matrix, C	S=Covered	d or Coate	d Sand Gra	ains. <sup>2</sup> Location: PL=Pore L	ining, M=Matrix.
Hydric Soil	Indicators:	(Applica	able to all LRRs	, unless othe	rwise not	ed.)		Indicators for Problematic	Hydric Soils <sup>3</sup> :
Hydric Soil Indicators: (Applicable to all LRRs Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR F) 1 cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G, H) 5 cm Mucky Peat or Peat (S3) (LRR F)		<ul> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Loamy Mucky Mineral (F1)</li> <li>Loamy Gleyed Matrix (F2)</li> <li>Depleted Matrix (F3)</li> <li>Redox Dark Surface (F6)</li> <li>Depleted Dark Surface (F7)</li> <li>Redox Depressions (F8)</li> <li>High Plains Depressions (F16)</li> <li>(MLRA 72 &amp; 73 of LRR H)</li> </ul>			16) H)	<ul> <li>1 cm Muck (A9) (LRR I,</li> <li>Coast Prairie Redox (A1</li> <li>Dark Surface (S7) (LRF</li> <li>High Plains Depressions (LRR H outside of M</li> <li>Reduced Vertic (F18)</li> <li>Red Parent Material (TF</li> <li>Very Shallow Dark Surfa</li> <li>Other (Explain in Remar</li> <li><sup>3</sup>Indicators of hydrophytic ve wetland hydrology must unless disturbed or prob</li> </ul>	J) 6) (LRR F, G, H) R G) 5 (F16) 1LRA 72 & 73) 2) ace (TF12) rks) getation and be present, lematic.		
Restrictive I	Layer (if pre	esent):							
Туре:									
Depth (ind	ches):							Hydric Soil Present? Yes	No _∠
Remarks:									
HYDROLO	GY								

Wetland Hydrology Indicat	tors:				
Primary Indicators (minimum	<u>n of one require</u>	; check all that apply) Secondary Indicators (minimur	n of two required)		
Surface Water (A1)		Salt Crust (B11) Surface Soil Cracks (B6)			
High Water Table (A2)		Aquatic Invertebrates (B13) Sparsely Vegetated Conca	ave Surface (B8)		
Saturation (A3)		Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)			
Water Marks (B1)		Dry-Season Water Table (C2) Oxidized Rhizospheres on	Living Roots (C3)		
Sediment Deposits (B2)	I	Oxidized Rhizospheres on Living Roots (C3) (where tilled)			
Drift Deposits (B3)		(where not tilled) Crayfish Burrows (C8)			
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4) Saturation Visible on Aeria	al Imagery (C9)		
Iron Deposits (B5)		Thin Muck Surface (C7) Geomorphic Position (D2)	Geomorphic Position (D2)		
Inundation Visible on A	ərial Imagery (E	) Other (Explain in Remarks) FAC-Neutral Test (D5)	FAC-Neutral Test (D5)		
Water-Stained Leaves (	B9)	Frost-Heave Hummocks (I	Frost-Heave Hummocks (D7) (LRR F)		
Field Observations:					
Surface Water Present?	Yes	lo Depth (inches):			
Water Table Present?	Yes	lo _ ✔_ Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes	lo <u>v</u> Depth (inches): Wetland Hydrology Present? Yes	No 🖌		
Describe Recorded Data (st	ream gauge, m	nitoring well, aerial photos, previous inspections), if available:			
Remarks:					

Project/Site: Stanley Municipal Airport	City/County: Mou	ntrail County	Sampling Date: 2023-07-13				
Applicant/Owner: Stanley Municipal Airport	State: North Dakota Sampling Point: 52						
Investigator(s): <u>GM, HW</u>	Section, Township, Range: <u>sec 29 T156N R091W</u>						
Landform (hillslope, terrace, etc.): Depression	_ Local relief (concave, convex, none): <u>Concave</u> Slope (%):						
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.306119	Long: <u>-102.411075</u>	Datum: WGS84				
Soil Map Unit Name: Williams-Zahl loams, 3 to 6 percent sl	opes NWI classification: PEM1A						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>v</u> No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly	y disturbed? A	re "Normal Circumstances" p	oresent? Yes 🖌 No				
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>v</u> No <u>v</u> Yes <u>No v</u> Yes <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	_ No
Remarks: Non-Wetland due to non h	ydric soils. Fence line	to east retains water.		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				(excluding FAC <sup>-</sup> ). $\underline{2}$ (A)
3				Total Number of Dominant
4				Species Across All Strata:3(B)
	0	= Total Cov	er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15)				That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				
4				OBL species $10.00 \times 1 = 10.00$
5				FACW species $40.00 \times 2 = 80.00$
	0	= Total Cov	er	FAC species $0.00 \times 3 = 0.00$
Herb Stratum (Plot size: <u>5</u> )				FACU species <u>0.00</u> x 4 = <u>0.00</u>
1. <u>Malva neglecta</u>	40	Y	NI	UPL species <u>0.00</u> x 5 = <u>0.00</u>
2. <u>Hordeum jubatum</u>	20	Y	FACW	Column Totals: <u>50.00</u> (A) <u>90.00</u> (B)
3. <u>Persicaria pensylvanica</u>	20	<u> </u>	FACW	Dravelance Index D/A 1.9
4. <u>Alisma triviale</u>	10	N	OBL	Prevalence index = B/A = <u>1.0</u>
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8.				v 3 - Prevalence Index is ≤3.0
9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	90.0	= Total Cov	er	
Woody Vine Stratum (Plot size: <u>30</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				
2				Hydrophytic
	0	= Total Cov	er	Vegetation Present? Ves // No
% Bare Ground in Herb Stratum <u>10</u>				
Remarks:				

Depth	ription: (L	Matrix	o the depth n	Redox Features	confirm the absence	of indicators.)
(inches)	Color (	moist)	% (	Color (moist) % Type <sup>1</sup> I	_oc <sup>2</sup> Texture	Remarks
0-7	<u>10YR</u>	2/2	100		Loam	
7-14	<u>10YR</u>	3/2	100		Loam	
14-20	2.5Y	4/3	100		Loam	
			<u> </u>			
<sup>1</sup> Type: C=Co	oncentration	n, D=Depl	etion, RM=Red	duced Matrix, CS=Covered or Coated S	Sand Grains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soll I	Indicators:	(Applica	able to all LRF	ts, unless otherwise noted.)	Indicators	for Problematic Hydric Solls :
Histosol	(A1) Dipodon (A2			Sandy Gleyed Matrix (S4)	1 cm M	1uck (A9) (LRR I, J) Prairia Roday (A16) (LPR E C H)
Black Hi	istic (A3)	.)		Stripped Matrix (S6)	Coast Dark S	
Hvdroge	en Sulfide (A	4)		Loamy Mucky Mineral (F1)	High P	lains Depressions (F16)
Stratified	d Layers (A	5) ( <b>LRR F</b>	.)	Loamy Gleyed Matrix (F2)	(LR	R H outside of MLRA 72 & 73)
1 cm Mu	uck (A9) ( <b>LF</b>	R F, G, H	ł)	Depleted Matrix (F3)	Reduc	ed Vertic (F18)
Depleted	d Below Da	rk Surface	e (A11)	Redox Dark Surface (F6)	Red Pa	arent Material (TF2)
Thick Da	ark Surface	(A12)		Depleted Dark Surface (F7)	Very S	hallow Dark Surface (TF12)
Sandy N	lucky Miner	al (S1)		Redox Depressions (F8)	Other (	Explain in Remarks)
2.5 Cm Mu	viucky Peat o	r Peat (Sa		(MI RA 72 & 73 of L RR H)	muicators	hydrology must be present
<u> </u>			) (ERR I )		unless	disturbed or problematic.
Restrictive I	Layer (if pr	esent):				•
Type:				_		
Depth (ind	ches):			_	Hydric Soil	Present? Yes No
Remarks:						
Hamerly-	Wyard	soils. F	enceline	is 2 feet higher than surface	ce elevation of	swale and ponds water in
some we	et years	evider	ntly. No hy	dric soils indicators preser	nt.	
HYDROLO	GY					
Wetland Hyd	drology Inc	licators:				
Primary Indic	cators (mini	mum of o	ne required; ch	eck all that apply)	Seconda	ry Indicators (minimum of two required)
Surface	Water (A1)			Salt Crust (B11)	_ <b>∠</b> Surf	ace Soil Cracks (B6)
High Wa	ater Table (A	42)		Aquatic Invertebrates (B13)	Spa	rsely Vegetated Concave Surface (B8)
Saturatio	on (A3)			Hydrogen Sulfide Odor (C1)	Drai	nage Patterns (B10)
Water M	larks (B1)			Dry-Season Water Table (C2)	Oxic	lized Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits	(B2)		Oxidized Rhizospheres on Living	Roots (C3) (w	here tilled)
Drift Dep	posits (B3)			(where not tilled)	Cray	/fish Burrows (C8)
Algal Ma	at or Crust (	B4)		Presence of Reduced Iron (C4)	Satu	ration Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)			Thin Muck Surface (C7)	<u>✓</u> Geo	morphic Position (D2)
Inundatio	on Visible o	n Aerial I	magery (B7)	Other (Explain in Remarks)	_ <u>√</u> FAC	-Neutral Test (D5)
Water-S	tained Leav	/es (B9)			Fros	t-Heave Hummocks (D7) (LRR F)
	vations:		na Na			
Surface wate	er Present?	Y Y	es No _	Depth (Inches):		
vvater Table	Present?	Y	es No _	Depth (Inches):		
Saturation Pr (includes cap	resent? <u>pillary fr</u> inge	() ()	es No _	Depth (inches):	wetland Hydrology	y Present? Yes <u>✓</u> No
Describe Red	corded Data	a (stream	gauge, monito	ring well, aerial photos, previous inspec	ctions), if available:	
Domente						
Swale is	blocked	d to the	e east by a	a fenceline. ponded water	in 2023.	

Project/Site: Stanley Municipal Airport	City/County: Mou	ntrail County	Sampling Date: 2023-07-13	3				
Applicant/Owner: <u>Stanley Municipal Airport</u>	State: North Dakota Sampling Point: 54							
Investigator(s): <u>GM, HW</u>	Section, Township, Range: <u>sec 29 T156N R091W</u>							
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0</u>							
Subregion (LRR): LRR F, MLRA 53B Lat: 48	3.305061	Long: <u>-102.412664</u>	Datum: WGS84					
Soil Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9 percent slopes NWI classification: None								
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🖌 N	lo (If no, explain in Re	emarks.)					
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🖌 No								
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (	If needed, explain any answer	s in Remarks.)					
NIMMARY OF FINDINGS - Attach site man showing sampling point locations, transacts, important features, etc.								

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No 🔽
Remarks: Shallow depression					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				$(\text{excluding FAC-}): \qquad \qquad \underbrace{0}_{(A)}$
3				Total Number of Dominant
4				Species Across All Strata: (B)
	0	= Total Cov	er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 )				That Are OBL, FACW, or FAC: 0.00 (A/B)
1				
2				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4.				OBL species x 1 =000
5				FACW species <u>0.00</u> x 2 = <u>0.00</u>
···		- Total Cov	or	FAC species <u>5.00</u> x 3 = <u>15.00</u>
Herb Stratum (Plot size: 5)		- 10101 001		FACU species x 4 =000
1. Elvmus spp.	85	Y	NI	UPL species x 5 =000
2 Rumex crispus	5	N	FAC	Column Totals: 5.00 (A) 15.00 (B)
3				( )
				Prevalence Index = $B/A = 3.0$
4				Hydrophytic Vegetation Indicators:
5		·	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7			. <u> </u>	$\sim$ 3 - Prevalence Index is $\leq 3.0^1$
8			<u> </u>	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	90.0	= Total Cov	rer	
Woody Vine Stratum (Plot size: 30)				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed of problematic.
2			<u> </u>	Hydrophytic
	0	= Total Cov	rer	Vegetation Brocont?
% Bare Ground in Herb Stratum <u>10</u>				
Remarks: Planted agricultural wheatgrass				
i lanted agricultural wheatgrass				

## Sampling Point: <u>54</u>

Profile Description: (Describe to the depth	needed to document the indicator or confi	irm the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	_
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
<u> </u>		Loam
<u>8-14 10YR 3/2 100</u>		Loam
14-31 10YR 3/2 100		Clay loam
<u></u>		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re	educed Matrix. CS=Covered or Coated Sand	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	1 cm Muck (A9) ( <b>LRR I, J</b> )
Histic Epipedon (A2)	Sandy Redox (S5)	Coast Prairie Redox (A16) (LRR F, G, H)
Black Histic (A3)	Stripped Matrix (S6)	Dark Surface (S7) (LRR G)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	High Plains Depressions (F16)
Stratified Layers (A5) (LRR F)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)	Depleted Matrix (F3) Redex Dark Surface (F6)	Reduced Vertic (F18) Rod Parant Material (TE2)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Other (Explain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRR G, H	H) High Plains Depressions (F16)	<sup>3</sup> Indicators of hydrophytic vegetation and
5 cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetland hydrology must be present,
		unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:	_	
Depth (inches):	_	Hydric Soil Present? Yes No
Remarks:		
Non hydric solls		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required: a	back all that apply)	Secondary Indicators (minimum of two required)
Finally indicators (infinitian of one required, c		Surface Seil Cracks (Rf)
Ligh Water Table (A2)	Sali Clusi (BTT)	Surface Soil Clacks (B0)
High Water Table (A2)	Aqualic Invertebrates (BT3)	Sparsely Vegetated Concave Surface (во)
Water Marks (B1)	Dry-Season Water Table (C2)	Ovidized Rhizospheres on Living Roots (C3)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roo	(where tilled)
Drift Deposits (B3)	(where not tilled)	Cravfish Burrows (C8)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Thin Muck Surface (C7)	✓ Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)
Field Observations:		
Surface Water Present? Yes No	✓ Depth (inches):	
Water Table Present? Yes No	✓ Depth (inches):	
Saturation Present? Yes No	Depth (inches): ₩	etland Hydrology Present? Yes No
(includes capillary fringe)	oring well, poriol photos, previous increased	a) if available:
Describe Recorded Data (stream gauge, monit	oning well, aerial priotos, previous inspections	s), II available.
Domostra		
Aerial image indicated crop drov	wn out. Shallow depression.	

Project/Site: Stanley Municipal Airport	City/County: Mountra	ail County	Sampling Date: 2023-07-13				
Applicant/Owner: Stanley Municipal Airport		State: North Dakota	Sampling Point: <u>56</u>				
Investigator(s): <u>GM, HW</u>	Section, Township, Range: sec 29 T156N R091W						
Landform (hillslope, terrace, etc.): Depression	<u>e</u> Slope (%): <u>0-2</u>						
Subregion (LRR): LRR F, MLRA 53B Lat: <u>48.305580</u> Long: <u>-102.418314</u> Datum: <u>WGS8</u> 4							
Soil Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9 percent slopes NWI classification: None							
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No _	(If no, explain in Re	emarks.)				
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are '	"Normal Circumstances" pr	resent? Yes 🖌 No				
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If ne	eeded, explain any answer	s in Remarks.)				

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

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

Indext stratum       (Plot size:30)       % CoverSpecies?       Status       Number of Dominant Species         1.	)
1.	)
2.	,
3.	
4 Species Across All Strata: (B)	
0 = Total Cover Percent of Dominant Species	
That Are OBL, FACW, or FAC: <u>100.00</u> (A/E	B)
1 Prevalence Index worksheet:	
2 Total % Cover of: Multiply by:	
3 OBI species $40.00 \times 1 = 40.00$	
4 EACW species 60.00 x 2 = 120.00	
5	
0 = Total Cover	
$\frac{\text{Heid Stratum}}{1 \text{ How species}} = 0.00 \text{ x}^{2} = 0.00$	
1. <u>Hordeum jubatum60 Y FACW</u> OFL speciesX3 =00	2
$\begin{array}{c c} 2. \underline{IVpna angustitolia} \\ IVpna angustitol$	s)
3 Prevalence Index = B/A = <u>1.6</u>	
4 Hydrophytic Vegetation Indicators:	
5 1 - Rapid Test for Hydrophytic Vegetation	
6 2 - Dominance Test is >50%	
7	
8 4 - Morphological Adaptations <sup>1</sup> (Provide supporting	ing
9 data in Remarks or on a separate sheet)	-
10 Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
100.0 = Total Cover	,
be present, unless disturbed or problematic.	
A A A A A A A A A A A A A A A A A A A	
% Bare Ground in Herb StratumO = 1 otal Cover $Present?$ Yes _ $\checkmark$ No	
Remarks:	

### Sampling Point: 56

Profile Desc	ription: (Des	scribe to	o the depth	needed to docur	nent the i	ndicator o	or confirm	n the absence	of indicator	rs.)	
Depth	Μ	atrix		Redo	x Features	3					
(inches)	Color (mo	<u>pist)</u>	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-7	<u>10YR</u>	2/2	100					Loam			
	10YR 3	3/2	100					Loam			
14-30	10YR	3/2	100					Clay loam			
								. <u></u>			
			<u> </u>								
			<u> </u>								
<sup>1</sup> Type: C=C	oncentration, I	D=Deple	etion, RM=Re	duced Matrix, CS	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loc	ation: PL=F	Pore Lining, N	I=Matrix.
Hydric Soil	Indicators: (	Applica	ble to all LR	Rs, unless othe	rwise note	∋d.)		Indicators	for Problen	natic Hydric	Soils":
Histosol	(A1)			Sandy (	Jeyed Ma	trix (S4)		1 cm M	luck (A9) (Ll Drairia Dada	RR I, J) x (A 16) (I DD	
Black Hi	stic (A3)			Sanuy r	d Matrix (S	) (6)		Coast	urface (S7)		. г, З, п)
Hydroge	n Sulfide (A4)	)		Loamy	Mucky Min	neral (F1)		High P	lains Depres	sions (F16)	
Stratified	d Layers (A5)	(LRR F)	)	Loamy	Gleyed Ma	atrix (F2)		(LR	R H outside	of MLRA 72	<b>2 &amp; 73</b> )
1 cm Mu	ıck (A9) ( <b>LRR</b>	F, G, H	)	Deplete	d Matrix (F	=3)		Reduc	ed Vertic (F1	8)	
Depleted	d Below Dark	Surface	(A11)	Redox I	Dark Surfa	ce (F6)		Red Pa	arent Materia	al (TF2)	2)
Thick Da	ark Surface (A	(81)		Deplete	d Dark Su			Very S	hallow Dark	Surface (TF1	2)
3anuy iv 2.5 cm M	lucky Milleral Jucky Peat or	Peat (S	2) (I RR G. H	I) High Pla	ains Denre	is (FO) essions (F	16)	<sup>3</sup> Indicators		tic vegetation	and
5 cm Mu	icky Peat or P	Peat (S3)	) (LRR F)	(ML	RA 72 & 7	3 of LRR	H)	wetland	d hydrology i	must be prese	ent,
				,			,	unless	disturbed or	· problematic.	
Restrictive I	_ayer (if pres	ent):									
Туре:				_							
Depth (in	ches):			_				Hydric Soil	Present?	Yes	No 🖌
Remarks:								•			
	CV										
		- 4									
Wetland Hy	arology Indic	ators:						Casarda		· /	(
Primary India	ators (minimu	um of on	ie requirea; c	neck all that appl	<u>y)</u> (D44)			Seconda	ry Indicators		<u>two required)</u>
Surface	vvater (A1)	<b>`</b>		Salt Crust	(B11)	o (D12)		Surr	ace Soll Cra	CKS (Bb)	Surface (D0)
⊓ign wa	(A2)	)		Aqualic in		S(DI3)		Spa	nago Pattor		Sunace (Bo)
Saturation	arke (B1)				Suillue Ot	$\operatorname{able}(C2)$			lized Phizos	nberes on Liv	(ing Roots (C3)
Vater in	nt Denosits (B	2)			Rhizosnhei	res on Livi	na Roots	(C3) (W	here tilled)		ing 10003 (00)
Drift Der	osits (B3)	<i>_</i> )		(where	not tilled)		ing recoto	(CC) (Cray	fish Burrows	s (C8)	
Algal Ma	at or Crust (B4	L)		Presence	of Reduce	d Iron (C4	)	Satu	ration Visibl	e on Aerial In	nagery (C9)
Iron Dep	osits (B5)	,		Thin Muck	Surface (	C7)	,	🖌 Geo	morphic Pos	sition (D2)	0,,,,,
Inundati	on Visible on <i>i</i>	Aerial In	nagery (B7)	Other (Exp	olain in Re	marks)		🖌 FAC	-Neutral Tes	st (D5)	
Water-S	tained Leaves	s (B9)						Fros	t-Heave Hu	mmocks (D7)	(LRR F)
Field Obser	vations:										
Surface Wat	er Present?	Ye	s No	✓ Depth (in	ches):		_				

Yes \_\_\_\_ No <u><</u> Depth (inches): \_

Yes \_\_\_\_\_ No \_\_\_ Depth (inches): \_

Remarks: Shallow depression

Water Table Present?

Saturation Present?

Wetland Hydrology Present? Yes \_\_\_\_ No \_\_\_

Project/Site: Stanley Municipal Airport	City/County: Moun	trail County	Sampling Date: <u>2023-07-13</u>
Applicant/Owner: Stanley Municipal Airport		State: North Dakota	Sampling Point: <u>58</u>
Investigator(s): <u>GM, HW</u>	Section, Township, F	Range: <u>sec 29 T156N R</u>	091W
Landform (hillslope, terrace, etc.): Depression	Local relief (concave	e, convex, none): <u>Concave</u>	Slope (%): <u>0-2</u>
Subregion (LRR): LRR F, MLRA 53B Lat: 48	8.305716	Long: <u>-102.415503</u>	Datum: WGS84
Soil Map Unit Name: Williams-Zahl loams, 3 to 6 percent sl	opes	NWI classifica	ition: <u>PEMA</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are	e "Normal Circumstances" pr	esent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If	needed, explain any answers	s in Remarks.)

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

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC (excluding EAC -): $(A)$
2				
3				Total Number of Dominant
4				Species Across All Strata:3(B)
	0	= Total Cov	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:15)				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2		<u> </u>	··	Total % Cover of: Multiply by:
3				$\frac{1}{1} \frac{1}{1} \frac{1}$
4				EACW species $0.00 \times 2 = 0.00$
5				$FAC species = 0.00 \times 3 = 0.00$
	0	= Total Cov	/er	1.00  species = 0.00  x  x  x = -160.00  species = 10.00  x  x  x  z = -160.00  species = -160.00
Herb Stratum (Plot size: 5)	00	V	FAOL	FACO species $40.00$ x 4 = $100.00$
1. <u>Amaranthus retroflexus</u>	20	<u> </u>	FACU	$\begin{array}{c} \text{OPL species} & \underline{0.00} & \text{X} = \underline{0.00} \\ \text{Oplane Table} & \underline{10,00} & \text{(A)} \\ \text{Oplane Table} & \underline{10,00} & \text{(A)} \\ \end{array}$
2. <u>Bassia scoparia</u>	20	<u>     Y                               </u>	FACU	Column Totals: $40.00$ (A) $160.00$ (B)
3. <u>Linum spp.</u>	20	<u> </u>	<u>    NI    </u>	Prevalence Index = $B/A = 4.0$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				$3 - $ Prevalence Index is $\leq 3.0^{1}$
8				5 - Frevalence index is \$5.0
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	60.0	= Total Cov	ver	
Woody Vine Stratum (Plot size: 30)				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed of problematic.
2				Hydrophytic
	0	= Total Cov	ver	Vegetation Present? Ves No V
% Bare Ground in Herb Stratum <u>40</u>				
Planted agricultural flax				

Profile Desc	cription: (D	escribe	to the depth n	eded to docu	nent the i	ndicator	or confirm	n the absence of indicators.)	
Depth		Matrix		Redox Features					
(inches)	Color (n	noist)	<u>%</u> 0	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	_
0-7	<u>10YR</u>	2/2	100					Loam	_
7-14	<u>10YR</u>	3/2	100					Loam	_
_14-20_	_2.5Y	4/3							-
									-
					- <u> </u>				-
Type: C=C	oncentration	, D=Depl	letion, RM=Rec	luced Matrix, C	S=Covered	d or Coate	d Sand Gra	rains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Histosol Histic E Black H Hydroge Stratified Thick De Sandy N 2.5 cm N Bestrictive	(A1) pipedon (A2) istic (A3) en Sulfide (A d Layers (A5 uck (A9) ( <b>LR</b> d Below Dar ark Surface ( <i>Aucky Minera</i> Mucky Peat or ucky Peat or	4) (LRR F R F, G, H k Surface (A12) al (S1) or Peat (S3 Peat (S3 Peat)	:) H) ∋ (A11) S2) (LRR G, H) 3) (LRR F)	Sandy ( Sandy ( Stripper Loamy Loamy Deplete Redox ( Redox ( Redox ( High Pl (ML	Gleyed Ma Redox (S5 d Matrix (S Mucky Mir Gleyed Ma d Matrix (I Dark Surfa d Dark Su Depression ains Depre <b>RA 72 &amp; 7</b>	atrix (S4) ) S6) heral (F1) atrix (F2) F3) ace (F6) urface (F7) ns (F8) essions (F 73 of LRR	16) <b>H</b> )	<ul> <li>1 cm Muck (A9) (LRR I, J)</li> <li>Coast Prairie Redox (A16) (LRR F, G, H)</li> <li>Dark Surface (S7) (LRR G)</li> <li>High Plains Depressions (F16)         <ul> <li>(LRR H outside of MLRA 72 &amp; 73)</li> <li>Reduced Vertic (F18)</li> <li>Red Parent Material (TF2)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> <li><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</li> </ul> </li> </ul>	
Type.	Layer (ii pre	senij.							
Depth (in	ches):							Hydric Soil Present? Yes No	_
Remarks: Salinity a	at surfac	e. Wya	ard soil se	ries.					
		-							

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; chec	ck all that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Water-Stained Leaves (B9)</li> </ul>	<ul> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Dry-Season Water Table (C2)</li> <li>Oxidized Rhizospheres on Living Root (where not tilled)</li> <li>Presence of Reduced Iron (C4)</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Oxidized Rhizospheres on Living Roots (C3)</li> <li>(where tilled)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Geomorphic Position (D2)</li> <li>FAC-Neutral Test (D5)</li> <li>Frost-Heave Hummocks (D7) (LRR F)</li> </ul>
Field Observations:		
Surface Water Present? Yes No _	∠ Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes No _	✓ Depth (inches): We	etland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitorin	g well, aerial photos, previous inspections	s), if available:
Slight depression. No hydrology s	alinity close to crops to SE s	stressed and not grown.

Project/Site: Stanley Municipal Airport	City/County: Mou	Intrail County	Sampling Date: 2023-07-13
Applicant/Owner: Stanley Municipal Airport		State: North Dakota	Sampling Point: <u>60</u>
Investigator(s): <u>GM, HW</u>	Section, Township	, Range: <u>sec 29 T156N R</u>	091W
Landform (hillslope, terrace, etc.): Depression	Local relief (conca	ave, convex, none): <u>Concave</u>	e Slope (%): <u>0-2</u>
Subregion (LRR): LRR F, MLRA 53B Lat: 48	.299882	Long: <u>-102.412422</u>	Datum: WGS84
Soil Map Unit Name: Divide loam, 0 to 2 percent slopes		NWI classifica	ation: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🖌 I	No (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed?	Are "Normal Circumstances" pr	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling poi	nt locations, transects,	important features, etc.

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1		·	·	That Are OBL, FACW, or FAC
2				$(excluding FAC-). \qquad \underline{3}$
3			<u> </u>	Total Number of Dominant
4				Species Across All Strata:3(B)
	0	= Total Cov	er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15)				That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
1			·	Prevalence Index worksheet:
2		·		Total % Cover of: Multiply by:
3				$\frac{1}{1} \frac{1}{1} \frac{1}$
4				EACW species 70.00 $x^2 = 140.00$
5			. <u> </u>	$FAC species = 20.00 \times 3 = -00.00$
Hade Obstance (Distribution 5	0	= Total Cov	rer	$FACU appeales = 0.00 \times 4 = 0.00$
Herb Stratum (Plot size: 5	40	V		FACO species $0.00 \times 4 = 0.00$
1. <u>Persicaria pensylvanica</u>	40	<u> </u>	FACW	$\begin{array}{c} \text{OPL species} & \underline{0.00} & \text{x} \text{ 5} = \underline{0.00} \\ \text{Column Tatalax} & \underline{100,00} & (A) & \underline{220,00} & (B) \\ \end{array}$
2. <u>Echinochloa crus-galli</u>	30	<u> </u>	FAC	Column Totals: $100.00$ (A) $230.00$ (B)
3. <u>Hordeum jubatum</u>		<u> </u>	FACW	Prevalence Index = $B/A = 2.3$
4		·		Hydrophytic Vegetation Indicators:
5			·	1 - Rapid Test for Hydrophytic Vegetation
6				✓ 2 - Dominance Test is >50%
7				$\checkmark$ 3 - Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9			. <u> </u>	data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	100.0	= Total Cov	rer	
Woody Vine Stratum (Plot size: 30)				be present, unless disturbed or problematic.
1				
2	·		<u> </u>	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	0	= Total Cov	rer	Present? Yes <u>v</u> No
Remarks:				
### SOIL

Profile Des	cription: (D	escribe	o the dept	n needed to docur	nent the i	ndicator	or confirm	the absence of	f indicators.)
Depth		Matrix		Redo	x Feature	s			
(inches)	Color (	<u>moist)</u>	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-14	<u>2.5Y</u>	3/1	100		·			Loam	
14-17	<u>2.5Y</u>	4/1	100					Loam	
17-21	2.5Y	4/2	50					Loam	
	2.5Y	3/3						Loam	
	·								
<sup>1</sup> Type: C=C	oncentratio	n. D=Dep	etion. RM=F	Reduced Matrix. CS	S=Covered	d or Coate	d Sand Gra	ains. <sup>2</sup> Locat	tion: PL=Pore Lining. M=Matrix.
Hydric Soil	Indicators:	(Applica	able to all L	RRs, unless other	wise not	ed.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)			Sandy (	Gleyed Ma	atrix (S4)		1 cm Mu	ck (A9) ( <b>LRR I, J</b> )
Histic E	pipedon (A2	.)		Sandy F	Redox (S5	5)		Coast Pr	airie Redox (A16) (LRR F, G, H)
Black H	listic (A3)			Stripped	d Matrix (S	6)		Dark Sur	face (S7) (LRR G)
Hydrog	en Sulfide (A	4)		Loamy I	Mucky Mir	neral (F1)		High Plai	ins Depressions (F16)
Stratified Layers (A5) (LRR F)				Loamy (	Gleyed Ma	atrix (F2)		(LRR	H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)				Deplete	d Matrix (I	F3)		Reduced	Vertic (F18)
Depleted Below Dark Surface (A11)				d Dark Suila	ice (F0) irface (F7)			eni Malenai (TF2) allow Dark Surface (TF12)	
Sandy Mucky Mineral (S1)			Redox [	Depressio	ns (F8)		Other (E:	xplain in Remarks)	
2.5 cm	Mucky Peat	or Peat (S	52) ( <b>LRR G</b>	H) High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators of	hydrophytic vegetation and
5 cm M	ucky Peat o	Peat (S	3) (LRR F)	, <u> </u>	RA 72 & 7	73 of LRR	H)	wetland h	hydrology must be present,
	-	-						unless di	isturbed or problematic.
Restrictive	Layer (if pr	esent):							
Type:									
Depth (ir	nches):							Hydric Soil P	resent? Yes <u>No</u>
Remarks:	ric soil								
I NOT THY									
HYDROLO	)GY								
Wetland Hy	drology Ind	licators:							
Primary Ind	cators (mini	mum of o	ne required;	check all that appl	y)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)			Salt Crust	(B11)			Surfac	ce Soil Cracks (B6)
High W	ater Table (/	42)		Aquatic In	vertebrate	s (B13)		Sparse	ely Vegetated Concave Surface (B8)
Saturat	ion (A3)			Hydrogen	Sulfide O	dor (C1)		Draina	age Patterns (B10)
Water M	/larks (B1)			Dry-Seaso	on Water T	Table (C2)		Oxidiz	ed Rhizospheres on Living Roots (C3)
Sedime	nt Deposits	(B2)		Oxidized F	Rhizosphe	res on Livi	ing Roots (	C3) (who	ere tilled)
Drift De	posits (B3)			(where I	not tilled)			Crayfis	sh Burrows (C8)
Algal M	at or Crust (	B4)		Presence	of Reduce	ed Iron (C4	-)	Satura	ation Visible on Aerial Imagery (C9)
Iron De	posits (B5)			Thin Muck	Surface (	C7)		🖌 Geom	orphic Position (D2)
Inundat	ion Visible o	n Aerial I	magery (B7)	Other (Exp	olain in Re	emarks)		🖌 FAC-N	Neutral Test (D5)
Water-S	Stained Leav	ves (B9)						Frost-l	Heave Hummocks (D7) (LRR F)

Vrater-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR P)										
Field Observations:										
Surface Water Present?	Yes	No	<ul> <li>Depth (inch</li> </ul>	es):						
Water Table Present?	Yes	No	<ul> <li>Depth (inch</li> </ul>	es):						
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inch	es):	Wetland Hydrology Present?	Yes _	<u>&lt;</u>	No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:										

### WETLAND DETERMINATION DATA FORM – Great Plains Region

Project Site:	Stanle	y Municip	al Airport				City/Count	y:	Stanley/I	Mountrail	Sampling	Date:	<u>7/13/2</u>	2023
Applicant/Owner:	Stanle	y Municip	al Airport						State:	<u>ND</u>	Sampling	Point:	<u>nh</u>	
Investigator(s):	<u>GWM</u>	/ HW					Section, To	wnship, I	Range:	29,156,91				
Landform (hillslope,	terrace	, etc.):	upland swa	ales		Local rel	lief (concave	, convex,	none):	concave		S	Slope (%	%): <u>1</u>
Subregion (LRR):	<u>F</u>		Lat:	various		L	.ong: <u>vario</u>	<u>us</u>			Datum:	NAD 83	3	
Soil Map Unit Name:	var	ious								NWI class	sification:	PEM1	Ad	
Are climatic / hydrold	ogic cor	nditions or	n the site ty	pical for this	time of year?	Yes 🛛	No 🛛	(lf no, e	explain in	Remarks.)				
Are Vegetation	], Sc	oil □,	or Hydro	ology 🖾,	significantly dis	sturbed?	Are "No	rmal Circu	Imstance	s" present?	Yes	$\boxtimes$	No	
Are Vegetation	], So	oil □,	or Hydro	ology □,	naturally proble	ematic?	(If need	ed, explai	n any ans	wers in Re	marks.)			

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

Hydrophytic Vegetation Present?	Yes	No	$\boxtimes$				
Hydric Soil Present?	Yes	No					
Wetland Hydrology Present?	Yes	No	$\boxtimes$	Is the Sampling Area within a Wetland?	Yes	No	$\boxtimes$

#### Remarks:

Sites labeled nh have either been drained and no longer function as wetlands or were erroneously identified by the NWI as possible wetland areas. None of the areas identified as nh were determined to be a wetland or an aquatic resource. Climatic conditions at the time of the field delineation were below normal precipitation and are indicated as mild drought.

### VEGETATION – Use scientific names of plants

Tree Stratum (Plot Size: )	Absolute <u>% Cover</u>	Dominant Species?	Indicator Status	Dominance Test Worksheet:				
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u>	(A)		
3 4				Total Number of Dominant Species Across All Strata:	<u>1</u>	(B)		
Sapling/Shrub Stratum (Plot Size:)		= Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>o</u>	(A/B)		
1				Prevalence Index worksheet:				
2				Total % Cover of:	<b>Multiply</b>	<u>by:</u>		
3				OBL species	x1 =			
4				FACW species	x2 =			
5				FAC species	x3 =			
		= Total Cove	r	FACU species	x4 =			
Herb Stratum (Plot Size: 5')				UPL species	x5 =			
1. Planted Crop	<u>25</u>	<u>ves</u>	UPL	Column Totals:	(A)		(B)	
2				Prevalence I	ndex = B/A	=		
3				Hydrophytic Vegetation Indic	ators:			
4				1 – Rapid Test for H	lydrophytic	Vegetatior	ı	
5				2 - Dominance Test	is >50%			
6			<u> </u>	3 – Prevalence Inde	ex is ≤3.0¹			
7				4 - Morphological A	daptations <sup>1</sup>	(Provide s	upporting	data in
ö				Remarks or on a	a separate s	sheet)		
9				Problematic Hydrop	hytic Veget	ation <sup>1</sup> (Exp	olain)	
10				<sup>1</sup> Indicators of hydric soil and we	tland hydro	logy must	be presen <sup>i</sup>	t,
	<u>25</u>	= Total Cove	r	uniess disturbed or problematic				
Woody Vine Stratum (Plot Size:)								
1								
2	. <u> </u>							
		= Total Cove	r					
% Bare Ground in Herb Stratum 75				Hydrophytic Vegetation Prese	ent? Y€	es □	No	$\boxtimes$
Remarks:								
Planted crops occur within each area identifed a	as nh. Crops inc	lude: soybean	s, wheat, ar	nd alfalfa.				

SOI	L
-----	---

Sam	plina	Point <sup>.</sup>	nh
Jam	ping	i onit.	

Prof	ile Description: (Describe to	o the depth nee	eded to docu	ument the indicat	or or confirm the a	bsence of indic	ators.)						
Depth Matrix			Redox	Features									
(incl	hes) Color (moist)	%	Color (Moi	st) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks					
_								· · · · · · · · · · · · · · · · · · ·					
_													
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_													
<sup>1</sup> Typ	e: C= Concentration, D=Dep	letion, RM=Re	duced Matri	x, CS=Covered of	or Coated Sand G	rains. <sup>2</sup> Locatio	n: PL=Pore	e Lining, M=Matrix					
Hyd	ric Soil Indicators: (Applica	ble to all LRRs	, unless oth	erwise noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :						
	Histosol (A1)			Sandy Gleyed I	Matrix (S4)			1 cm Muck (A9) ( <b>LRR I, J</b> )					
	Histic Epipedon (A2)			Sandy Redox (	S5)			Coast Prairie Redox (A16) (LRR F, G, H)					
	Black Histic (A3)			Stripped Matrix	(S6)			Dark Surface (S7) (LRR G)					
	Hydrogen Sulfide (A4)			Loamy Mucky M	Vineral (F1)			High Plains Depressions (F16)					
	Stratified Layers (A5) (LRF	R F)		Loamy Gleyed	Matrix (F2)			(LRR H outside of MLRA 72 & 73)					
	1 cm Muck (A9) (LRR F, G	i <b>, H</b> )		Depleted Matrix	< (F3)			Reduced Vertic (F18)					
	Depleted Below Dark Surfa	ace (A11)		Redox Dark Su	rface (F6)			Red Parent Material (TF2)					
	Thick Dark Surface (A12)			Depleted Dark	Surface (F7)			Very Shallow Dark Surface (TF 12)					
	Sandy Mucky Mineral (S1)			Redox Depress	ions (F8)			Other (Explain in Remarks)					
	2.5 CM Mucky Peat or Pea	at (S2)(LRR G,	H) 🗆	High Plains Dep	pressions (F16)		<sup>3</sup> Indic bydro	ators of hydrophytic vegetation and wetland					
	5 cm Mucky Peat or Peat (	S3) ( <b>LRR F</b> )		(MLRA 72 & 7	3 of LRR H)		proble	ematic.					
Rest	trictive Layer (if present):												
Туре	e:												
Dept	th (Inches):						Hydri	ic Soils Present? Yes 🗌 No 🛛					
Rem	arks:												

### HYDROLOGY

Wetland Hydrology Indicators:														
Prim	ary Indicators (minimum	of one re	equired	; check	all that	t apply)		Secondary Indicators (2 or more required)						
	Surface Water (A1)					Salt Crust (B11)			Surface Soil Crack	ks (B6)				
High Water Table (A2)					Aquatic Invertebrates (B13)			Sparsely Vegetate	d Conca	ve Surfa	ce (B8)			
	Saturation (A3)				Hydrogen Sulfide Odor (C1)			Drainage Patterns (B10)						
Water Marks (B1)				Dry Season Water Table (C2)			Oxidized Rhizosph	neres alc	ng Living	g Roots (	C3)			
	Sediment Deposits (B	2)				Oxidized Rhizospheres along Living Roo	ots (C3)		(where tilled)					
Drift Deposits (B3)				(where not tilled)			Crayfish Burrows	(C8)						
Algal Mat or Crust (B4)				Presence of Reduced Iron (C4)			Saturation Visible on Aerial Imagery (C9)							
Iron Deposits (B5)				Thin Muck Surface (C7)			Geomorphic Position (D2)							
Inundation Visible on Aerial Imagery (B7)				Other (Explain in Remarks)			FAC-Neutral Test	(D5)						
Water-Stained Leaves (B9)							Frost-Heave Hum	mocks ([	07) ( <b>LRR</b>	<b>F</b> )				
Field	Observations:													
Surfa	ace Water Present?	Yes		No		Depth (inches):								
Wate	r Table Present?	Yes		No		Depth (inches):								
Satu (inclu	ration Present? Ides capillary fringe)	Yes		No		Depth (inches):	Wetlan	d Hye	drology Present?	Yes		No		
Desc	ribe Recorded Data (st	ream gau	uge, mo	nitoring	g well, a	aerial photos, previous inspections), if avai	ilable:							
Remarks:														
The a	The areas identified as nh consist of shallow swales that lack geomorphic position and other indicators of wetland hydrology.													

# Appendix E

**OWHM** Data Sheet



Not Applicable

# Appendix F

Driving Directions to Project Area



## Google Maps

US Army Corps of Engineers, 3319 University Dr, Drive 169 miles, 2 hr 40 min Bismarck, ND 58504 to Stanley Municipal Airport, 6115 82nd Ave NW, Stanley, ND 58784



Imagery ©2023 TerraMetrics, Map data ©2023 Google 10 mi

⊟	via US-83 N and ND-23 W Best route now due to traffic conditions	<b>2 hr 40 min</b> 169 miles							
	via US-83 N and U.S. Rte 2 W	<b>2 hr 40 min</b> 166 miles							
	via ND-25 N, US-83 N and U.S. Rte 2 W	<b>2 hr 42 min</b> 171 miles							
Explo	Explore nearby Stanley Municipal Airport								

Restaurants Hotels Gas stations Parking Lots More

## Appendix G

### Signed Statement from Property Owner(s) Allowing Access

The Stanley Municipal Airport is located near Stanley, North Dakota. Should the USACE need to contact the applicant or visit the project visit, please contact Mr. Evan Barrett, 952-641-8820, <u>Evan.Barrett@meadhunt.com</u>.

