

Sewall Wetland Consulting, Inc.

PO Box 880 Fall City, WA 98024 Phone: 253-859-0515

November 5, 2021

Green Canyon Properties, LLC 371 Thorp Cemetery Road Thorp, Washington 98946 Attn.: Arley Harrel

RE: Critical Area Report – Parcels #19272-286, 282936, 122936 & 302936 total 17 parcels) Kittitas County, Washington SWC Job #21-189

Dear Arley,

This report describes our observations of any jurisdictional wetlands, streams and/or buffers on Parcels #19272-286, 282936, 122936 & 302936 total 17 parcels), in unincorporated Kittitas County, Washington (the "site"). The site consists of 17 abutting parcels with a total area of of approximately 51 acres and located west of Lower Green Canyon Road within the Section 8, Township 18 North, Range 18 East of the W.M.

### METHODOLOGY

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site in October of 2021. The site was reviewed using methodology described in the **Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)** (USACOE September 2008) as required by the US Army Corps of Engineers starting in June of 2009. This is the methodology currently recognized by the City of Ellensburg for wetland determinations and delineations. The site was also reviewed using methodology described in Soil colors were identified using the 1990 Edited and Revised Edition of the **Munsell Soil Color Charts** (Kollmorgen Instruments Corp. 1990.

Due to the season flood irrigation of the site and the regional high water levels in October at the end of the irrigation season, observations of the site were conducted in October at the end and peak of the high water table season. All irrigation on the site had been off for several weeks prior to our site inspection.



Above: Vicinity Map of site



Above: Aerial photograph from Kittitas Mapsifter website

This combination of elimination of irrigation water on the site for several weeks, as well as the seasonal regional high water period, would give us an accurate depiction of what areas on the site had wetland hydrology with no local flood irrigation influence.

A series of 24 soil pits/data points were excavated on the site to characterize the plant, soil and hydrology conditions.

## **OBSERVATIONS**

### Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the National Wetland Inventory Map and the NRCS Soil Survey online mapping and Data, Kittitas County Taxsifter website, WADNR Fpars water type mapping and the WDFW Priority Habitats and species mapping.

### National Wetlands Inventory (NWI)

The NWI map depicts several emergent wetlands on the site along existing irrigation ditches as well as several of the irrigation ditches as "streams".

The USFWS data indicates this wetland was mapped in 2017 and not field checked during the inventory. The Inventory mapping for Kittitas County specifically states for this area;

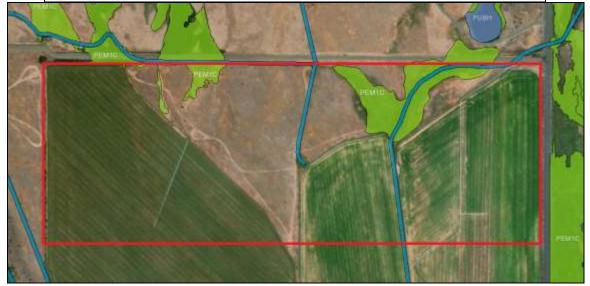
#### **Inventory Method:**

Wetland identification and interpretation was done "heads-up" using ArcMap versions 10.5-10.6. US Fish & Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping contractors in Portland, Oregon completed the original aerial photo interpretation and wetland mapping. Primary authors: Michael Holscher, Josh Moss, Tim O'Neill, and Rick Griffin of SWCA Environmental Consulting. QC during the mapping was provided by members of the mapping team. Regional wetland guidance, oversight and final QA for the submitted mapping project were completed by Bill Kirchner, Region 1, USFWS, NWI.

Field reconnaissance was not conducted Funding for the project was provided by the Washington Department of Ecology,

#### **Data Limitations:**

The user of the map is cautioned that, due to the limitation of mapping primarily through aerial photo interpretation, a small percentage of wetlands may have gone unidentified. Since the photography was taken during a particular time and season, there may be discrepancies between the map and current field conditions. Changes in the landscape which occurred after the photography was taken would result in such discrepancies.



Above: NWI map of the area of the site

### Soil Survey

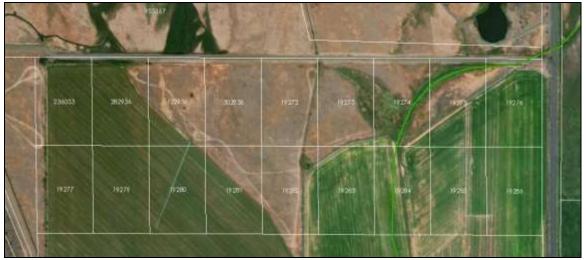
According to the NRCS Soil Mapper website, the site is mapped as containing 2 soil types including Reeser-Reelow Sketter complex and Reelow-Reeser Lablue complex. Both of these soil types are well drained soils formed in alluvium and glacial drift. None of these soil series are considered "hydric" or wetland soils according to the publication *Hydric Soils of the United States* (USDA NTCHS Pub No.1491, 1991).



Above: NRCS soil map of the site.

## **Kittitas County Mapsifter**

The Kittitas County Mapsifter website depicts the eastern irrigation ditch as a Type 2 water.



Above: Kittitas County wetland and stream mapping of the site.

### WDNR Fpars Stream Mapping

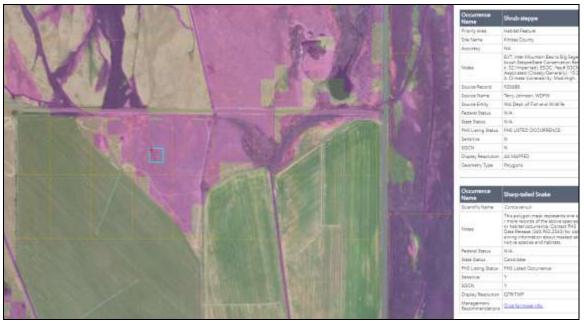
According to the WDNR Fpars stream mapping website, the irrigation channel depicted as a Type 2 water on the county mapping is a Type F water.

### **WDFW Priority Habitats and Species Maps**

The WDFW Priority Habitats and Species mapping for the site depicts potions of the site within the shrub steppe area, as well as potentially containing sharp tailed snakes. It also identifies the irrigation channel through the site as a riverine water body.



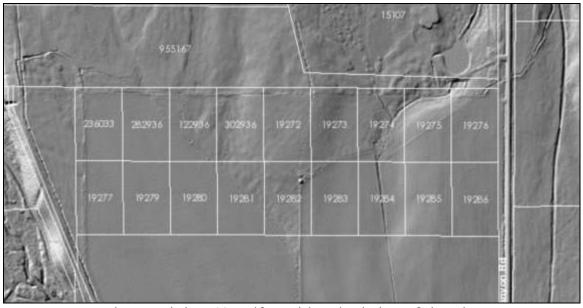
Above: WADNR Fpars stream mapping of the site



Above: WDFW Priority habitat mapping of the area of the site.

## Field observations

The site is an agricultural site used in the recent past to grow wheat and hay. The site has rolling topography with a slight slope to the south which is used to facilitate flood irrigation of portions of the site. The north central portion of the site is a slight rise which is generally nonirrigable land. A paved roadway with a cul-de-sac at its west end passes through the center of the site in an east-west orientation accessed off Lower Green Canyon Road.



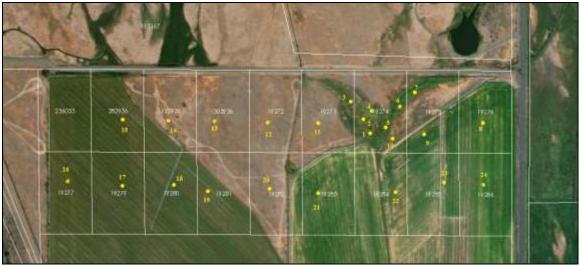
Above: Kittitas Taxsifter Lidar depiction of the site.

The site is irrigated with several irrigation ditches draining water onto the property. The only one that appears to still carry water is the easternmost ditch. This water from this ditch enters in two locations, one through a piped control structure on the northeast corner of the site. The second through ditch flow along a newly constructed driveway just north of the site. The ditch flow through the site is in a southerly direction and historically water has been drawn from this feature to irrigate. This ditch appears to originate in seepage from the North Branch of the KRD Canal located just north of Smithson Road. The flow passes through numerous properties before entering and passing through the site. Its ultimate discharge point is another irrigation feature, the Cascade Canal, just south of Clark Road where the canal passes under Lower Green Canyon Road.

The site generally contains a fallow pasture/hay field dominated primarily with xeric, weedy species. There is a small area of reed canary grass growing along the sides of the main irrigation ditch north of the existing paved access road. This area has been influenced by past irrigation overflow into these areas allowing some hydrophytic plants to become established. This creates a unique aerial photograph signature and correlates to some of inventoried wetland areas shown previously. The majority of the site is vegetated with prickly lettuce, cheatgrass, sparse patches of winter wheat. Other species noted include fescue, quackgrass, and tumble mustard.

Soils on the site are a cobbly loam, which were found to be dry throughout the site. In general the soils on the site have a B-horizon soil chroma colors of 3 or 4 without any redoximorphic or hydric features.

The area surrounding the eastern irrigation ditch contains a mix of hydrophytic vegetation including reed canary grass, Baltic rush and some soft rush. As previously described this is an area that has some irrigation water spread out from the irrigation ditch in high flow periods and has created some irrigation induced wetland characteristics. This area had numerous data points (DP1-DP7) located within it, and none of the area was found to contain wetland hydrology. Only one point (DP6) contained hydric soil characteristics, but again, this area lacks evidence of wetland hydrology.



Above: Data point locations.

# <u>Ditches</u>

As previously described, the eastern irrigation ditch is depicted as a stream on several of the inventory maps. These indicate this is a fish bearing stream (Type 2 or Type F).

It is our observation that this feature originates in seepage from the North Branch of the KRD Canal located 2.7 miles north of the site just north of Smithson Road. The flow or this irrigation seepage passes through numerous properties before entering and passing through the site. Prior to entering the site it must pass through a control structure/gate on the east side of Lower Green Canvon Road. Then it is directed onto the site through a pipe to a grated control structure. A portion of this flow is allowed to flow down a ditch just north of the site between the relatively new driveway and the north property line. This joins overflow water from a man-made pond located off-site to the north into the main irrigation ditch through the site. The flow then passes through a 24" wide ditch flowing south through the site and then through other agricultural lands to Clark Road. At Clark Road this flow is directed to the east in a roadside ditch to Lower Green Canyon Road. It then flows south in a roadside ditch before entering the Cascade Canal. Although flow was present during our site visit, the irrigation system had only been off just under two weeks and residual water still flowed in the irrigation ditch. In the winter the ditch goes dry.

Although some interpretation of irrigation ditches is used by the agencies regarding their regulation as a "stream", this ditch appears to originate in seepage from an irrigation source (North Branch of the KRD canal), passes through various irrigated agricultural properties and the site, prior to discharging to another man made irrigation canal (Cascade Canal). Therefore, it is our professional opinion that this ditch appears to be strictly an irrigation feature and not a natural stream.

### Priority Species and Habitats

Although the WDFW Priority Habitats mapping depicts part of the site in big sagebrush dominated shrub steppe, there is no sagebrush or other shrub steppe vegetation on the site. The site is entirely agricultural and has been for many years.

In addition, no evidence of the sharp tailed snake was found on the site.

### Conclusion

There are no wetlands, streams or buffers on the site.

If you have any questions in regards to this report or need additional information, please feel free to contact me at (253) 859-0515 or at <u>esewall@sewallwc.com</u>.

Sincerely, Sewall Wetland Consulting, Inc.

A Serl

Ed Sewall Senior Wetlands Ecologist PWS #212

Attached: Data sheets

### REFERENCES

Cowardin, L., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, FWS/OBS-79-31, Washington, D. C.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.

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Reed, P.B. Jr. 1993. 1993 Supplement to the list of plant species that occur in wetlands: Northwest (Region 9). USFWS supplement to Biol. Rpt. 88(26.9) May 1988.

USDA NRCS & National Technical Committee for Hydric Soils, September 1995. Field Indicators of Hydric Soils in the United States - Version 2.1



Above and below: looking westerly across the site from the central road.





Above: Looking westerly from the northeast corner of the site where irrigation water can flow. Below: The control structure which draws water from the main irrigation ditch for the site.





Above and below: The main irrigation ditch that drains onto on the northeastern corner of the site, east of Lower Green Canyon Road. Note control structure to shut off flow of irrigation water to the west of Lower Green Canyon Road.



WETLAND DETERMINA	ATION DATA FORM – Arid West Region	
Project/Site: Creen Canyon	City/County: KA+, + < Co. Sampling Date: State: State: Sampling Point:	0-29 DP#1
nvestigator(s):Sewall		
andform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%	%):
Subregion (LRR): Lat: _	Long: Datum:	
Soil Map Unit Name: <u>Peeser-Relow Skithe</u>	Long: Datum: Datum: Datum:	
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes No (If no, explain in Remarks.)	/
re Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal Circumstances" present? Yes	No
re Vegetation, Soil, or Hydrology naturally	y problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showi	ring sampling point locations, transects, important featu	res, etc.
Hydrophytic Vegetation Present?     Yes     No       Hydric Soil Present?     Yes     No       Wetland Hydrology Present?     Yes     No	Is the Sampled Area within a Wetland? Yes No	
Remarks: Isriget Flow		

### VEGETATION – Use scientific names of plants.

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Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				That Are OBL, FACW, or FAC: (A)	)
2				Total Number of Dominant /	
3				Species Across All Strata: (B)	)
4				Percent of Dominant Species	
	·	= Total Co	ver	That Are OBL, FACW, or FAC:	B)
Sapling/Shrub Stratum (Plot size:)					
1				Prevalence Index worksheet:	
2				Total % Cover of:Multiply by:	
3				OBL species x 1 =	
4				FACW species x 2 =	
5				FAC species x 3 =	
		= Total Co		FACU species x 4 =	
Herb Stratum (Plot size:)	0-	-	FACE	UPL species x 5 =	
1. Phalmis andm				Column Totals: (A) (E	3)
2. Carex sp	510		PAC		<i>,</i>
3				Prevalence index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0 <sup>1</sup>	
7				Morphological Adaptations <sup>1</sup> (Provide supporting	
8				data in Remarks or on a separate sheet)	
····		= Total Co		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	······				
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	1
2				be present, unless disturbed or problematic.	
		= Total Co		Hydrophytic	
% Bare Ground in Herb Stratum % Cove				Vegetation Present? Yes No	
Remarks:					

Sampling Point: DP# (

Profile Desc	ription: (Describe	to the depth	needed to document the indica	ator or confirm	the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Ty	oe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
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		. <u> </u>			<u></u>	×
			educed Matrix, CS=Covered or C	Coated Sand Gra		n: PL=Pore Lining, M=Matrix.
•	• ·	able to all LR	Rs, unless otherwise noted.)			Problematic Hydric Solis <sup>3</sup> :
Histosol			Sandy Redox (S5)			(A9) (LRR C)
	hipedon (A2)		Stripped Matrix (S6)			(A10) (LRR B)
Black Hit	• •		Loamy Mucky Mineral (F1)			/ertic (F18)
	n Sulfide (A4)	•1	Loarny Gleyed Matrix (F2)			nt Material (TF2)
	Layers (A5) (LRR (	•)	Depleted Matrix (F3) Redox Dark Surface (F6)			olain in Remarks)
	ck (A9) (LRR D) Releve Dork Surface	o (A11)	Depleted Dark Surface (F7	n		
	I Below Dark Surface Irk Surface (A12)	6 (A11)	Redox Depressions (F8)	)	<sup>3</sup> Indicators of h	ydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools (F9)			rology must be present,
	leyed Matrix (S4)				-	rbed or problematic.
	ayer (if present):			······	Т	
Type:						~
••	ches):				Hydric Soll Pre	sent? Yes No
Remarks:	· · · · · · · · · · · · · · · · · · ·			<u> </u>	1	
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-	drology Indicators:		للمحاد ماا فلمغ مسينه بأ		Secondo	(Indicators (2 or more required)
	ators (minimum of o	ine required; (				y Indicators (2 or more required)
	Water (A1)		Salt Crust (B11)			r Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crust (B12)			ment Deposits (B2) (Riverine)
Saturatio			Aquatic Invertebrates (B1			Deposits (B3) (Riverine)
	arks (B1) (Nonriver		Hydrogen Sulfide Odor (0	-		age Patterns (B10)
	nt Deposits (B2) (No	-	Oxidized Rhizospheres a			Season Water Table (C2)
	posits (B3) (Nonrive	rine)	Presence of Reduced Iro			fish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron Reduction in	Tilled Soils (C6	•	ration Visible on Aerial Imagery (C9)
	on Visible on Aerial I	Imagery (B7)	Thin Muck Surface (C7)			ow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Explain in Remark	(5)	FAC-	Neutral Test (D5)
Field Observ	vations:					
Surface Wate	er Present? Y	'es No	/ 1 \ \ /			
Water Table	Present? Y	'es No	Depth (inches):			
Saturation Pr		'es No	Depth (inches):	Wetla	and Hydrology P	resent? Yes No
(includes cap Describe Reg		naune moni	oring well, aerial photos, previou	is inspections)	if available:	
	unana nam (anagin	. 3~~3~, molti	and provident and a provide			
Remarks:						

No inductors

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Creen Ca	myon	City/C	ounty:K	A+1 >~	s Co.	_ Sampling Date:	10-29-2 DP#Z
Applicant/Owner:					Stat	e: <u>WA</u>	_ Sampling Point:	DP#Z
Investigator(s):	<u> 21 Se</u>	wall	Section	on, Township, F	Range:	871	BNR181	
Landform (hillslope	e, terrace, etc.):		Local	relief (concave	e, convex, noi	ne):	Sic	pe (%):
Subregion (LRR): _			Lat:		Long:		Dətu	m:
Soil Map Unit Nam	e: <u>Peese</u>	- Relow SK	etter / Lab	lue -		NWI classi	fication:	
	ologic conditions on the							/
Are Vegetation	, Soil, or H	lydrology si	ignificantly distur	bed? An	e "Normal Cin	cumstances	" present? Yes	No
Are Vegetation	, Soil, or ⊢	iydrology n	aturally problema	atic? (If	needed, expl	ain any ansv	vers in Remarks.)	
SUMMARY OF	Findings – At	tach site map :	showing sam	npling point	locations	, transec	ts, important fe	atures, etc.
Hydrophytic Vege Hydric Soil Prese Wetland Hydrolog	ent?	Yes No Yes No Yes No		ls the Sampl within a Wet		Yes	No	-
Remarks:		ingate	Flan pr	, t				

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

-	Absolute	Dominant		Dominance Test worksheet		
		Species?		Number of Dominant Species		
1				That Are OBL, FACW, or FA	C:/	(A)
2				Total Number of Dominant	,	
3				Species Across All Strata:		(B)
4			<del></del>	Percent of Dominant Species	<b>3</b>	
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, or FA	c: <u>100</u>	(A/B)
				Prevalence Index workshe	et:	
1				Total % Cover of:		
3				OBL species		_
4				FACW species		
5		·····		FAC species		_
		= Total Co		FACU species		
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2. Carex Spp	<u> </u>		FAC			_ ` `
3				Prevalence Index = B/		
4				Hydrophytic Vegetation Inc		
5			·	Dominance Test is >50%		
6		. <u></u>	. <u></u>	Prevalence Index is ≤3.0		
7				Morphological Adaptatio	ns <sup>1</sup> (Provide suppor	ting
8				Problematic Hydrophytic		
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Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and	wotland hydrology	
1			·	be present, unless disturbed		nusi
2			·	1 k		
		= Total Co	)ver	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover of	of Biotic C	rust		Present? Yes	No	
Remarks:						

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Profile Desc	ription: (Describe t	o the depth i	needed to docum	nent the in	dicator o	r confirm	the absence o	f indicators	.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
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and the second sec	oncentration, D=Depl				· · · · · · · · · · · · · · · · · · ·	d Sand Gra			ore Lining, M=N	
Hydric Soll I	ndicators: (Applica	ible to all LR	Rs, unless othe	wise note	d.)		Indicators f	or Problem	atic Hydric So	ils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mi	uck (A9) (LR	RC)	
Histic Ep	vipedon (A2)		Stripped Ma	atrix (S6)			2 cm Mi	uck (A10) (Ll	RR B)	
Black Hi	stic (A3)		Loamy Muc	ky Mineral (	(F1)		Reduce	d Vertic (F18	3)	
Hydroge	n Sulfide (A4)		Loamy Gley	/ed Matrix (	F2)		Red Par	rent Material	(TF2)	
Stratified	Layers (A5) (LRR C	;)	Depleted M	atrix (F3)			Other (E	Explain in Re	marks)	
1 cm Mu	ck (A9) (LRR D)		Redox Dark	Surface (F	6)					
Depleted	Below Dark Surface	(A11)	Depleted Da	ark Surface	(F7)					
Thick Da	irk Surface (A12)		Redox Dep	ressions (Fi	8)		<sup>3</sup> Indicators o	f hydrophytic	c vegetation ar	nd
Sandy M	lucky Mineral (S1)		Vernal Pool	ls (F9)			wetland h	ydrology mu	st be present,	
Sandy G	leyed Matrix (S4)						unless dis	sturbed or pro	oblematic.	
<b>Restrictive</b> L	.ayer (if present):									
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Depth (inc	ches):						Hydric Soll I	Present?	Yes	No
Remarks:										
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### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; ch	neck all that apply)	Secondary Indicators (2 or more required)		
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)		
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)		
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Dry-Season Water Table (C2)		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	pils (C6) Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspec	tions), if available:		
Remarks:				
	NO indec.	hs		

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Green	Canyon	c	ity/County:K	Atitas Co. Sampling Date: 10-2
policant/Owner:				State: WA Sampling Point: DP7
vestigator(s):	Sewall	S	ection. Township. R	ange: 587/BNRIZE
				, convex, none): Slope (%):
				Long: Detum:
all Man Unit Name:	es - Lolour	Sketter / 6	ailes -	Determ Determ
	-	-		(If no, explain in Remarks.)
re Vegetation, Soil		. –		"Normal Circumstances" present? Yes No
re Vegetation, Soil	, or Hydrology	naturally prob	lematic? (If i	needed, explain any answers in Remarks.)
UMMARY OF FINDINGS -	Attach site ma	ap showing	sampling point	locations, transects, important features, et
Hydrophytic Vegetation Present?	Yes	No		1.
Hydric Soil Present?	Yes	- ,	is the Sample within a Wetl	
Wetland Hydrology Present?	Yes		within a wet	and? tes No
Remarks:				
			<b></b>	
EGETATION - Use scient	inc names of p		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	)		Species? Status	
1,				That Are OBL, FACW, or FAC: (A)
2			·····	- Total Number of Dominant
3				
4				Percent of Dominant Species
Caulin-/Church Strateurs /Distaires			= Total Cover	That Are OBL, FACW, or FAC: (A/I
Sapling/Shrub Stratum (Plot size				Prevalence Index worksheet:
1 2				Total % Cover of: Multiply by:
3				OBL species x1 =
4				FACW species x 2 =
5.				FAC species $\frac{20}{x3} = \frac{60}{x3}$
			= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:		(D	upl	UPL species $\frac{60}{100}$ x 5 = $\frac{340}{100}$
1. Bronvs tech	والكريبية والمتركب والمتحد والمحاب			
2. Festin 39	r i i i i i i i i i i i i i i i i i i i			Prevalence Index = B/A = 4,5
3			<u></u>	Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5 6				
				Morphological Adaptations <sup>1</sup> (Provide supporting
7.				
78.				data in Remarks or on a separate sheet)
			= Total Cover	data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8 <u>Woody Vine Stratum</u> (Plot size: 1	)		= Total Cover	
8 Woody Vine Stratum (Plot size: 1	)		= Total Cover	<ul> <li>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</li> <li><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>
8	)		= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must

Sampling Point: DP Hy

• • •	needed to document the maicator of	confirm 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
16 10×313		Cabby Im
		<u> </u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re		
Hydric Soil Indicators: (Applicable to all LR	-	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Mickly Mineral (S1) Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
•		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
		No michto
		No militato
HYDROLOGY		No micho
		No mlicato
Wetland Hydrology Indicators:	heck all that apply)	-
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; c		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; c Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c         Surface Water (A1)         High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> )
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> </ul>	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) ving Roots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Liv     Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)         Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         //ing Roots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1) (Nonriverine)         Sediment Deposits (B2) (Nonriverine)         Drift Deposits (B3) (Nonriverine)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> <li>Thin Muck Surface (C7)</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1) (Nonriverine)         Sediment Deposits (B2) (Nonriverine)         Drift Deposits (B3) (Nonriverine)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1) (Nonriverine)         Sediment Deposits (B2) (Nonriverine)         Drift Deposits (B3) (Nonriverine)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1) (Nonriverine)         Sediment Deposits (B2) (Nonriverine)         Drift Deposits (B3) (Nonriverine)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1) (Nonriverine)         Sediment Deposits (B2) (Nonriverine)         Drift Deposits (B3) (Nonriverine)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Liv</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled S</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> <li>Depth (inches):</li> <li>Bepth (inches):</li> </ul>	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Liv     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Liv     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Liv     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Liv     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Liv     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; c	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)

WETLAND	DETERMINATION	DATA FORM -	<b>Arid West Region</b>
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Project/Site:	reen	Carryon		City/County	K.A	Hitas Co.	Sampling Date: 10 - 29
Applicant/Owner						State: WA	Sampling Point: DParty
nvestigator(s):		Sencell		Section, To	wnship, Rai	nge: 587/2	NR 18E
							Slope (%):
Subregion (LRR):			Lat:			Lona:	Datum:
Soil Man Unit Name:	Pees	ies - Relow	Skettle /	Labler	-	NWI classific	ation:
						(If no, explain in R	
Are Vegetation, So			-				present? Yes No
Are Vegetation, Sc						eded, explain any answe	
_						· ·	-
SUMMARY OF FIND	)INGS -	· Attach site n	nap showing	j samplin	g point le	ocations, transects	, important features, etc.
Hydrophytic Vegetation I Hydric Soil Present? Wetland Hydrology Pres		Yes Yes Yes			e Sampled in a Wetlar		No
Remarks:	<u> </u>			l	· · · · · · · · · · · ·	······································	**************************************
VEGETATION - Use	e scient	ific names of	plants.				
		```	Absolute			Dominance Test work	sheet:
Tree Stratum (Plot size				r <u>Species?</u>		Number of Dominant S That Are OBL, FACW,	
2.							
3						Total Number of Domin Species Across All Stra	
4						•	
				= Total Co	iver	Percent of Dominant Sp That Are OBL, FACW,	
Sapling/Shrub Stratum						Prevalence Index wor	
1 2						Total % Cover of:	
3.						OBL species	x1=
4						FACW species	x2=
5						FAC species	x 3 =
		,		_ = Total Co	ver		x 4 =
Herb Stratum (Plot size			50		FAC	UPL species	x 5 =
1. <u>Agresy</u> 2. Julieus	6.	Hices	50		FAC	Column Totals:	(A) (B)
						Prevalence Index	a = B/A =
3	the second s					Hydrophytic Vegetation	an Indiantary
3						Hydrophydc vegetau	un marcaturs.
					·	Bominance Test is	s >50%
4				<u></u>	· · · · · · · · · · · · · · · · · · ·	Bominance Test is Prevalence Index i	s >50% is ≤3.0 <sup>1</sup>
4 5						Dominance Test is     Prevalence Index i     Morphological Ada	: >50% s ≲3.0 <sup>1</sup> iptations <sup>1</sup> (Provide supporting
4.       5.       6.						Borninance Test is     Prevalence Index i     Morphological Ada     data in Remarks	s >50% is ≤3.0 <sup>1</sup>
4 5 6 7 8						Borninance Test is     Prevalence Index i     Morphological Ada     data in Remarks	s >50% is ≤3.0 <sup>1</sup> iptations <sup>1</sup> (Provide supporting s or on a separate sheet)
4 5 6 7 8 <u>Woody Vine Stratum</u> (F	Plot size: _	)		= Total Co		Dominance Test is     Prevalence Index i     Morphological Ada     data in Remark     Problematic Hydro <sup>1</sup> Indicators of hydric soi	s >50% s ≤3.0 <sup>1</sup> ptations <sup>1</sup> (Provide supporting s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain) il and wetland hydrology must
4	Plot size: _	)		= Total Co		Dominance Test is     Prevalence Index i     Morphological Ada     data in Remark     Problematic Hydro	s >50% s ≤3.0 <sup>1</sup> ptations <sup>1</sup> (Provide supporting s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain) il and wetland hydrology must
4 5 6 7 8 Woody Vine Stratum (F	Plot size: _	)		= Total Co		Borninance Test is     Prevalence Index i     Morphological Ada     data in Remarka     Problematic Hydro <sup>1</sup> Indicators of hydric soi     be present, unless distu     Hydrophytic	s >50% s ≤3.0 <sup>1</sup> ptations <sup>1</sup> (Provide supporting s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain) il and wetland hydrology must
4	Plot size: _	)		= Total Co		Borninance Test is     Prevalence Index i     Morphological Ada     data in Remarks     Problematic Hydro <sup>1</sup> Indicators of hydric soi     be present, unless distu     Hydrophytic     Vegetation	s >50% s ≤3.0 <sup>1</sup> ptations <sup>1</sup> (Provide supporting s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain) il and wetland hydrology must

Sampling Point: \_\_\_\_\_

Profile Descr Depth	iption: (Describe to Matrix	the depth n		ment the indicato x Features	or or confirm	the absence of	of indicato	rs.)
(inches)	Color (moist)		Color (moist)	% Type		Texture		Remarks
	104p 3/315					ccbby	hn	-
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM=Rec	duced Matrix, C	S=Covered or Coa	ated Sand Gr	  ains. <sup>2</sup> Loca	ation: PL=	Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Applicat	ole to all LRF	Rs, unless othe	rwise noted.)		Indicators	for Proble	matic Hydric Solls <sup>3</sup> :
Histosol (	A1)		Sandy Red	ox (S5)		1 cm M	uck (A9) (L	.RR C)
Histic Epi	pedon (A2)		Stripped M	atrix (S6)		2 cm M	uck (A10) (	(LRR B)
Black His	tic (A3)		Loamy Mu	xy Mineral (F1)		Reduce	d Vertic (F	18)
Hydrogen	Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Pa	rent Materi	ial (TF2)
Stratified	Layers (A5) (LRR C)		Depleted N	latrix (F3)			Explain in f	
	x (A9) (LRR D)			k Surface (F6)			•	
	Below Dark Surface	(A11)		ark Surface (F7)				
	k Surface (A12)			ressions (F8)		<sup>3</sup> Indicators of	of hydrophy	tic vegetation and
	ucky Mineral (S1)		Vernal Poo	• •				nust be present,
	eyed Matrix (S4)			. ,				problematic.
	ayer (if present):					T		
Type:			-					
Depth (incl	hes):		-			Hydric Soil	Present?	Yes No
Remarks:					· · · · · · · · · · · · · · · · · · ·			<u></u>
IYDROLOO	<b>SY</b>							
Wetland Hyd	rology Indicators:				· <del></del>	······		

Primary Indicators (minimum of one required; ch	neck all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	vils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	5	
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	tions), if available:
Remarks:	**************************************	

## WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Green	Carryon		City/County	- KA	Hitas Co.	Sampling Date:	10-29
oplicant/Owner:					State: WA	Sampling Point:	DP#
nvestigator(s):	Seina II		Section, To	wnship, Ra	nge: 587/8	ON RISI	Geo.
andform (hillslope, terrace, etc.): _							
ubregion (LRR):				-			
oil Map Unit Name:	ser-Relow	Statter / a	Lablas	) 	NWI classific	nation:	·····
re climatic / hydrologic conditions of							
re Vegetation, Soil		-			'Normal Circumstances'		No
_					eded, explain any answe		140
re Vegetation, Soil				-			
UMMARY OF FINDINGS -	Attach site ma	ap showing	samplin	g point l	ocations, transects	, important f	eatures, etc.
Hydrophytic Vegetation Present?	Yes	No					
Hydric Soil Present?	Yes		And a second	e Sampled in a Wetlar		No -	and the second se
Wetland Hydrology Present?	Yes	No	With	HI A WEUAI	iur res	NO	-
EGETATION – Use scient	lific names of p	lants.					
		Absolute			Dominance Test work	(sheet:	
<u>Tree Stratum</u> (Plot size: 1	•		Species?		Number of Dominant S That Are OBL, FACW,		(A)
2					Total Number of Domin		1
3					Species Across All Stra	ata:	(B)
4 Sapling/Shrub Stratum (Plot size			= Total Co	ver	Percent of Dominant S That Are OBL, FACW,		(A/B)
1					Prevalence Index wor	rksheet:	· · · · · · · · · · · · · · · · · · ·
2.					Total % Cover of:	Multip	ly by:
3					OBL species	x 1 =	
4			······		FACW species	x 2 =	
5					FAC species		
Herb Stratum (Plot size:	)		= Total Co	ver	FACU species		
1. Phalmis and		1 un		FACI	UPL species		
2					Column Totals:	(A)	(B)
3					Prevalence index	( = B/A =	·····
4					Hydrophytic Vegetati		
					Dominance Test is	s >50%	
					Prevalence Index		
6 7			···			s or on a separati	e sheet)
6 7 8			···	-	Morphological Ada     data in Remark     Problematic Hydro	s or on a separati	e sheet)
6 7 8 8 <u>Woody Vine Stratum</u> (Plot size: 1	)		 _= Total Co	-	data in Remark	s or on a separate phytic Vegetation il and wetland hyd	e sheet) <sup>1</sup> (Explain) Irology must
6 7 8 <u>Woody Vine Stratum</u> (Plot size: 1	)		 = Total Co		data in Remark	s or on a separate phytic Vegetation il and wetland hyd	e sheet) <sup>1</sup> (Explain) Irology must
3.	)			   	data in Remark Problematic Hydro 'Indicators of hydric so be present, unless dist Hydrophytic Vegetation	s or on a separate ophytic Vegetation il and wetland hyd urbed or problem	e sheet) <sup>1</sup> (Explain) Irology must

Sampling Point: DP#5

Profile Description: (Describe to the depth	needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Lo	pc <sup>2</sup> Texture Remarks
1/4 7.54R 25/3		cobby have
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=F		
Hydric Soil indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Solls <sup>3</sup> ;
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3) Redox Dark Surface (F6)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	w parate	Hydric Soll Present? Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	ils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes N		/
Water Table Present? Yes N	o Depth (inches):	
	o Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	itoring well parial photos, previous inspect	ions) if available:
Possine Recorded Pala (sucarii yauga, mor	normy wen, dense protos, previous inspect	iona, ii avaliauto.
Domorko:	·····	
Remarks:		

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Green	Canyo	$\sim$	City/0	County	KA	Hites Co. Sampling Date: 10-2
nnlicant/Owner							State: NA Sampling Point: DP-1
vestidator(s):	all 1	Sewal	isoffice.	Sect	ion, To	wnship, Rai	nge: S&T/BNR/8E
							convex, none): Slope (%):
			1 -4			•	
ail Man Linit Nama:	Rec	Sex - Rolm	- Skettle	1 Lana	لي المعالي الم		_ Long: Datum:
on map Unit Name.							INVIT Gassincation.
ie Ginnaud / Hydroid		s on the ane typic		yoar:			
re Vegetation							Normal Circumstances" present? Yes No
re Vegetation	, Soil	_, or Hydrology	naturally	problem	atic?	(If ne	eeded, explain any answers in Remarks.)
UMMARY OF F	INDINGS	<ul> <li>Attach sit</li> </ul>	e map show	ng sar	nplin	g point le	ocations, transects, important features, etc
Hydrophytic Vegeta	tion Present?	Yes	No				<b>A</b>
Hydric Soil Present		Yes	No			e Sampled	
Wetland Hydrology	Present?		No		with	in a Wetlar	na? res No
							*****
EGETATION -	Use scien	itific names		4- D-		I	Development Testandabest
Tree Stratum (Plot	t size:	)	Absol <u>% Co</u>			Indicator Status	Dominance Test worksheet: Number of Dominant Species
1							That Are OBL, FACW, or FAC: (A)
2				<u> </u>		<u></u>	Total Number of Dominant
3							Species Across All Strata: (B)
				= T	otal Co	ver	Percent of Dominant Species / www That Are OBL, FACW, or FAC: (A/B
Sapling/Shrub Strat 1.							Prevalence Index worksheet:
2.							Total % Cover of: Multiply by:
3							OBL species x 1 =
4						<u> </u>	FACW species x 2 =
5							FAC species x 3 =
· · · · · · · · · · · · · · · · · · ·			<u></u>	= T	otal Co	ver	FACU species x 4 =
Herb Stratum (Plo 1.	t size:	milin	14	0		Fren	UPL species x 5 =
							Column Totals: (A) (B)
2 3							Prevalence Index = B/A =
4						<u></u>	Hydrophytic Vegetation Indicators:
5							Dominance Test is >50%
6							Prevalence Index is ≤3.0 <sup>1</sup>
							Morphological Adaptations <sup>1</sup> (Provide supporting
7							data in Remarks or on a separate sheet)
					otal Co		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8							
8 Woody Vine Stratu	m (Plot size:		_)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7 8 Woody Vine Stratum 1 2	m (Plot size:	· ·	_)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8 Woody Vine Stratu	m (Plot size:		_)	= T	otal Co	ver	

Sampling Point: \_\_\_\_\_\_

Depth (inches)	<u>Matrix</u> Color (moist)	%	Redox Features           Color (moist)         %         Type <sup>1</sup>	Loc <sup>2</sup> Tex	ture	Remarks
(inches)	101h 3/3	/9		( <u>6X</u>		rionans
14	10423/2		cmt		-034 h	
vne: C=C	oncentration D=Deple	tion. RM=Re	educed Matrix, CS=Covered or Coate	d Sand Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
			Rs, unless otherwise noted.)			lematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Redox (S5)		1 cm Muck (A9)	(LRR C)
Histic E	pipedon (A2)		Stripped Matrix (S6)		2 cm Muck (A1	0) (LRR B)
Black H	istic (A3)		Loamy Mucky Mineral (F1)	<u></u>	Reduced Vertic	(F18)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red Parent Ma	terial (TF2)
	d Layers (A5) (LRR C)		Depleted Matrix (F3)		Other (Explain i	n Remarks)
	uck (A9) (LRR D)		Redox Dark Surface (F6)			
	d Below Dark Surface	(A11)	Depleted Dark Surface (F7)	а.	····	to do concerte de la c
	ark Surface (A12)		Redox Depressions (F8)			phytic vegetation and
	Aucky Mineral (S1)		Vernal Pools (F9)		vetiand hydrolog Inless disturbed	y must be present,
	Sleyed Matrix (S4) Layer (if present):				iniess disturbed	or problemauc.
_						
Type:						
				10		0 V 🗸 N.
	ches):			Hydi	ric Soll Present	? Yes No
Remarks:	ches):			Hydi	ric Soll Present	? Yes No
Remarks: YDROLO Wetland Hy	ches): GY drology Indicators:			Hydi		
Remarks: YDROLO Wetland Hy	ches):		heck all that apply)	Hydi	Secondary Ind	icators (2 or more required)
Remarks: YDROLO Vetland Hy Primary India	ches): GY drology Indicators:		heck all that apply).	Hydi	Secondary Ind	
Remarks: YDROLO Vetland Hy Primary India Surface	ches): GY drology Indicators: cators (minimum of on			Hydi	Secondary Ind Water Mat Sediment	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> )
Remarks: YDROLO Wetland Hy Primary India Surface	ches): GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2)		Salt Crust (B11)	Hydi	Secondary Ind Water Mat Sediment	icators (2 or more required) ks (B1) ( <b>Riverine</b> )
Remarks: YDROLO Vetland Hy Primary Indi Surface High Wa Saturati Water M	ches): GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin	e required; c	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Secondary Ind Water Mar Sediment Drift Depo Drainage I	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10)
Remarks: YDROLO Vetland Hy Primary India Saturati Saturati Water M Sedime	ches): GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Non	e required; c e) iverine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seaso	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2)
Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Nonriverin posits (B3) (Nonriverin	e required; c e) iverine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> <li>Presence of Reduced Iron (C4)</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seasc Crayfish B	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8)
Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Saturati Saturati Drift De Surface	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Non posits (B3) (Nonriverin Soil Cracks (B6)	e required; c e) iverine) ne)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> <li>Presence of Reduced Iron (C4</li> <li>Recent Iron Reduction in Tillet</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9
Primary India Primary India Primary India Surface High Wa Saturati Saturati Sedime Drift De Surface Inundati	ches): GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Nonri posits (B3) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im	e required; c e) iverine) ne)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> <li>Presence of Reduced Iron (C4</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3)
Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S	ches): GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Non posits (B3) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9)	e required; c e) iverine) ne)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> <li>Presence of Reduced Iron (C4</li> <li>Recent Iron Reduction in Tillet</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9
Remarks: YDROLO Vetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Vater-S	ches): drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Non posits (B3) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations:	e) iverine) ne) agery (B7)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> <li>Presence of Reduced Iron (C4</li> <li>Recent Iron Reduction in Tillea</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3)
Primary India Primary India Surface High Water N Sedime Drift De Surface Inundati Water-S Field Obser	ches): drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Non posits (B3) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations:	e) iverine) ne) agery (B7)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along</li> <li>Presence of Reduced Iron (C4</li> <li>Recent Iron Reduction in Tillea</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3)
Primary India Primary India Primary India Surface High Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriverin nt Deposits (B2) (Non posits (B3) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations: er Present? Yes Present? Yes	e required; c e) iverine) ne) agery (B7) s No s No	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along     Presence of Reduced Iron (C4     Recent Iron Reduction in Tilled     Thin Muck Surface (C7)     Other (Explain in Remarks)      Depth (inches):     Depth (inches):	Living Roots (C3)	Secondary Ind Water Mat Sediment Drift Depo Dry-Sease Crayfish B Saturation Shallow A FAC-Neut	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3) ral Test (D5)
YDROLO YDROLO Vetland Hy Primary India Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Water Surface Water Su	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriverin nt Deposits (B2) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations: er Present? Yes present? Yes pillary fringe)	e required; c e) iverine) ne) agery (B7) s No s No s No	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along     Presence of Reduced Iron (C4     Recent Iron Reduction in Tillee     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3) ral Test (D5)
Primary India Primary India Primary India Surface High Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Water Surface Water	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) darks (B1) (Nonriverin nt Deposits (B2) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations: er Present? Yes present? Yes pillary fringe)	e required; c e) iverine) ne) agery (B7) s No s No s No	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along     Presence of Reduced Iron (C4     Recent Iron Reduction in Tilled     Thin Muck Surface (C7)     Other (Explain in Remarks)      Depth (inches):     Depth (inches):	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3) ral Test (D5)
Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Drift De Urift De Inundati Water-S Field Obser Surface Wat Water Table Saturation P includes ca	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations: er Present? Yes present? Yes pillary fringe)	e required; c e) iverine) ne) agery (B7) s No s No s No	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along     Presence of Reduced Iron (C4     Recent Iron Reduction in Tiller     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3) ral Test (D5)
Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Nater Table Saturation P includes ca Describe Re	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations: er Present? Yes present? Yes pillary fringe)	e required; c e) iverine) ne) agery (B7) s No s No s No	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along     Presence of Reduced Iron (C4     Recent Iron Reduction in Tillee     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):     Depth (inches):	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3) ral Test (D5)
Remarks: YDROLO Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S Field Obser Surface Wat Nater Table Saturation P includes ca Describe Re	ches): GGY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriverin nt Deposits (B2) (Nonriverin Soil Cracks (B6) ion Visible on Aerial Im Stained Leaves (B9) vations: er Present? Yes present? Yes pillary fringe)	e required; c e) iverine) ne) agery (B7) s No s No s No	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along     Presence of Reduced Iron (C4     Recent Iron Reduction in Tiller     Thin Muck Surface (C7)     Other (Explain in Remarks)     Depth (inches):     Depth (inches):	Living Roots (C3)	Secondary Ind Water Mar Sediment Drift Depo Drainage I Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	icators (2 or more required) ks (B1) ( <b>Riverine</b> ) Deposits (B2) ( <b>Riverine</b> ) sits (B3) ( <b>Riverine</b> ) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 quitard (D3) ral Test (D5)

WETLAND	DETERMINATION	DATA FORM -	Arid West Region
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Project/Site:	en Canyon	City	y/County:KA	Hites So. s	ampling Date: <u>10-25</u>
pplicant/Owner:				State: WA S	ampling Point: $DP^{H}$
vestigator(s):	1 Sewall	Se	ction, Township, Rai	nge: 587/8/	NRISE
					Slope (%):
•	-				Datum:
					on:
e climatic / hydrologic condit					
re Vegetation, Soil	•••	-			sent? Yes No
-					
re Vegetation, Soil				eded, explain any answers i	•
UMMARY OF FINDING	GS – Attach site	map showing sa	ampling point lo	ocations, transects, i	mportant features, etc.
Hydrophytic Vegetation Pres	sent? Yes	No	Is the Sampled	Area	~
Hydric Soil Present?	Yes	No	within a Wetlar		No
Wetland Hydrology Present?	? Yes	No	widin' a Wellai	iur (es	
EGETATION Use so	cientific names of	f plants.			
**************************************			Dominant Indicator	Dominance Test worksh	eet:
Tree Stratum (Plot size: 1			ipecies? <u>Status</u>	Number of Dominant Spe That Are OBL, FACW, or	
2				Total Number of Dominan	,
3				Species Across All Strata:	(В)
4 Sapling/Shrub Stratum (Plo		=	Total Cover	Percent of Dominant Spec That Are OBL, FACW, or	
1.				Prevalence Index works	heet:
2				Total % Cover of:	Multiply by:
3				OBL species	x1=
1		<u></u>		FACW species	
-				FAC species	x 3 =
5					
		==	Total Cover	FACU species	
Herb Stratum (Plot size:	)		_	UPL species	x 5 =
Herb Stratum (Plot size: 1 Phu <sup>l</sup> us	anden,	Ille	FACW	UPL species	
Herb Stratum (Plot size: 1Phuslass 2	anden,	100	Faw	UPL species Column Totals: Prevalence Index =	x 5 = (B) (A) (B) B/A =
<u>Herb Stratum</u> (Plot size: 1Phus <sup>1</sup> us 2 3	anden,	100	FAW	UPL species Column Totals: Prevalence Index = Hydropbytic Vegetation	x 5 = (B) (A) (B) B/A = Indicators:
Herb Stratum         (Plot size:	anden,		Fiktur 	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >{	x 5 = (B) (A) (B) B/A = Indicators: 50%
Herb Stratum         (Plot size:)           1	anden,		FAW	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >8 Prevalence Index is <	x 5 = (B) (A) (B) B/A = Indicators: 50% 53.0 <sup>1</sup>
Herb Stratum       (Plot size:	) ,		F746W	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >s Prevalence Index is < Morphological Adapta	x 5 = (B) (A) (B) B/A = Indicators: 50% (3.0 <sup>1</sup> ations <sup>1</sup> (Provide supporting
Herb Stratum       (Plot size:	) ,		<i>F74cw</i>	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >s Prevalence Index is < Morphological Adapta	x 5 = (B) (A) (B) B/A = Indicators: 50% 50% 50% 50% 50% 50% for a separate sheet)
Herb Stratum       (Plot size:	andra,		<i>F74cw</i>	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >8 Prevalence Index is < Morphological Adapta data in Remarks of	x 5 = (B) (A) (B) B/A = Indicators: 50% 50% 50% 50% 50% 50% for a separate sheet)
Herb Stratum       (Plot size:	) ,  size:)		FAC	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >5 Prevalence Index is >5 Norphological Adapta data in Remarks of Problematic Hydrophy <sup>1</sup> Indicators of hydric soil a	x 5 = (B) (A) (B) B/A = Indicators: 50% 3.0 <sup>1</sup> ations <sup>1</sup> (Provide supporting r on a separate sheet) ytic Vegetation <sup>1</sup> (Explain) nd wetland hydrology must
1.     Phis/ws       2.	)		FAC	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >5 Prevalence Index is >5 Prevalence Index is >5 Morphological Adapta data in Remarks of Problematic Hydrophy	x 5 = (B) (A) (B) B/A = Indicators: 50% 3.0 <sup>1</sup> ations <sup>1</sup> (Provide supporting r on a separate sheet) ytic Vegetation <sup>1</sup> (Explain) nd wetland hydrology must
Herb Stratum       (Plot size:	)		FAC	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >5 Prevalence Index is ≤ Morphological Adapta data in Remarks o Problematic Hydrophy <sup>1</sup> Indicators of hydric soil a be present, unless disturb Hydrophytic	x 5 = (B) (A) (B) B/A = Indicators: 50% 3.0 <sup>1</sup> ations <sup>1</sup> (Provide supporting r on a separate sheet) ytic Vegetation <sup>1</sup> (Explain) nd wetland hydrology must
Herb Stratum (Plot size:	)		FAC	UPL species Column Totals: Prevalence Index = Hydrophytic Vegetation Dominance Test is >5 Prevalence Index is ≤ Prevalence Index is ≤ Morphological Adapta data in Remarks o Problematic Hydrophy <sup>1</sup> Indicators of hydric soil a be present, unless disturb Hydrophytic Vegetation	x 5 = (B) (A) (B) B/A = Indicators: 50% 50% 50% 53.0 <sup>1</sup> ations <sup>1</sup> (Provide supporting r on a separate sheet) ytic Vegetation <sup>1</sup> (Explain) nd wetland hydrology must

Sampling Point:	DP#7
Sampling Point:	· ·

			Samping Point.
Profile Desc	ription: (Describe to the depth	needed to document the indicator or con	firm the absence of indicators.)
Depth	<u>Matrix</u>	Redox Features	
(inches)	<u>Color (moist)</u> %	Color (moist) % Type <sup>1</sup> Loc	
14	10/2 3/2		_ cubby m
			terre a second
			<u> </u>
		educed Matrix, CS=Covered or Coated San	
-	ndicators: (Applicable to all LR		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol		Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
•	bipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Hi	suc (A3) n Sulfide (A4)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
	l Layers (A5) (LRR C)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Red Parent Material (TF2) Other (Explain in Remarks)
	ck (A9) (LRR D)	Redox Dark Surface (F6)	
	Below Dark Surface (A11)	Depleted Dark Surface (F7)	
	Irk Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
	lucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
	leyed Matrix (S4)		unless disturbed or problematic.
Restrictive L	ayer (if present):		
Type:			
Depth (inc	ches):		Hydric Soll Present? Yes No
Remarks:			
HYDROLO	GY		
Wetland Hyd	irology indicators:		
Primary Indic	ators (minimum of one required; o	check all that apply)	Secondary Indicators (2 or more required)
Surface	Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Wa	ter Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturatio		Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
	t Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	
Drift Dep	oosits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
	Soil Cracks (B6)	Recent Iron Reduction in Tilled Soils	
	on Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
	tained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observ			
Surface Wate	er Present? Yes No	Depth (inches):	

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

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

Yes\_

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

Water Table Present?

Saturation Present?

Remarks:

No

Wetland Hydrology Present? Yes

## WETLAND DETERMINATION DATA FORM - Arid West Region

roject/Site:			City/County	r. <u> </u>	Hitas Co. State: WA	Sampling Date:	10-29
vestigator(s):	ewell		Section, To	ownship, Ra	nge: 587/	ON RIST	
andform (hillslope, terrace, etc.):			Local relie	f (concave,	convex, none):	Slo	pe (%):
ubregion (LRR):		Lat:			Long:	Datu	m:
oil Map Unit Name:	er-Relans	Sketter 16	has block		NWI class	ification:	
re climatic / hydrologic conditions on							
re Vegetation, Soil, o							No
re Vegetation, Soil, o					eded, explain any ans		
UMMARY OF FINDINGS -					ocations, transec	ts, important fe	atures, etc.
Hydrophytic Vegetation Present?	Yes	No	2				
Hydric Soil Present?		No	~	he Sampled			and the second se
Wetland Hydrology Present?	Yes		WIC	hin a Wetlar	nd? Yes	No	-
EGETATION Use scientifi	ic names of	plants.					
Tree Stratum (Plot size:	)	Absolute % Cover		t Indicator	Dominance Test we		
1					Number of Dominan That Are OBL, FACV		(A)
2 3					Total Number of Dor Species Across All S		(B)
4Sapling/Shrub Stratum (Plot size: _			= Total Co	over	Percent of Dominant That Are OBL, FACV		(A/B)
1					Prevalence Index w	vorksheet:	
2.					Total % Cover o	of: Multipl	y by:
3				<u> </u>	OBL species	x 1 =	
					FACW species		
4					EAC energies	x3=	
<b>4</b> <b>5</b>	······				The species		
5			= Total C		FACU species	x 4 =	
5	)		•	over FACU	FACU species UPL species	x 4 = x 5 =	****
1. <u>Lacture</u> sen 2. Tritica aes	stium	<u>30</u> 10		FACU	FACU species UPL species Column Totals:	x 4 = x 5 = (A)	(B)
5 (Plot size: 1. <u>Lactuch Sen</u> 2. <u>Tritich a</u> es 3	stivum	30		FAKU	FACU species UPL species Column Totals: Prevalence Ind	x 4 = x 5 = (A) dex = B/A =	(B)
5	stium	<u>30</u> 10		FAKU NE	FACU species UPL species Column Totals:	x 4 = x 5 = (A) dex = B/A = ation Indicators:	(B)
5 (Plot size: 1	nola stiuun	<u>30</u> 10			FACU species UPL species Column Totals: Prevalence Ind Hydrophytic Veget	x 4 = x 5 = (A) dex = B/A = ation Indicators: t is >50%	(B)
5	nok stivum	<u>30</u> 10			FACU species UPL species Column Totals: Prevalence Ind Hydrophytic Veget Dominance Tes Prevalence Inde Morphological A	x 4 = x 5 = (A) dex = B/A = ation Indicators: t is >50%	(B)
5	nul stiuum	<u>30</u> <u>10</u>			FACU species UPL species Column Totals: Prevalence Ind Hydrophytic Veget Dominance Tes Prevalence Inde Morphological A	$x 4 = $ $x 5 = $ $(A)$ $dex = B/A = $ $ation Indicators:$ $it is >50\%$ $ex is <3.0^{1}$ $Adaptations^{1} (Provide arks or on a separate$	(B)
5.	1.6/2 stiuum	<u>30</u> <u>10</u>		FAK U ME	FACU species UPL species Column Totals: Prevalence Inde Hydrophytic Vegeta Dominance Tes Prevalence Inde Morphological A data in Rema Problematic Hyd	$x 4 = $ $x 5 = $ $(A)$ $dex = B/A = $ $ation Indicators:$ $it is >50\%$ $ex is <3.0^{1}$ $Adaptations^{1} (Provide arks or on a separate$	(B) e supporting e sheet) <sup>4</sup> (Explain) rology must
5 (Plot size: 1. <u>Lactuca</u> <u>Sem</u> 2. <u>Triticm</u> <u>acs</u> 3 4	1.6/2 st i uum				FACU species UPL species Column Totals: Prevalence Ind Hydrophytic Vegeta Dominance Tes Prevalence Inde Morphological A data in Rema Problematic Hyd <sup>1</sup> Indicators of hydric be present, unless d Hydrophytic Vegetation	$x 4 = $ $x 5 = $ $(A)$ $dex = B/A = $ $ation Indicators:$ $at is >50\%$ $dex is \le 3.0^{1} daptations^{1} (Provide arks or on a separate drophytic Vegetation) soil and wetland hyd$	(B) e supporting e sheet) <sup>4</sup> (Explain) rology must ttic.

				Camping Vonc
Profile Desc	ription: (Describe to the depth i	needed to document the indicato	r or confirm the al	bsence of indicators.)
Depth	Matrix	Redox Features		
(inches)		Color (moist) % Type <sup>1</sup>	and a second sec	ture Remarks
14	1043/4			ubby in
				,
		<u> </u>		
	······			
·			···· ·································	
			+	
			-	
·				<u> </u>
<sup>1</sup> Type: C=Co	oncentration, D=Depletion, RM=Re	duced Matrix, CS=Covered or Coa	ted Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable to all LR	Rs, unless otherwise noted.)	Ind	icators for Problematic Hydric Solls <sup>3</sup> :
Histosol	(A1)	Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
Histic Ep	pipedon (A2)	Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black His		Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
	n Sulfide (A4)	Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
	Layers (A5) (LRR C)	Depleted Matrix (F3)		Other (Explain in Remarks)
	ck (A9) (LRR D)	Redox Dark Surface (F6)		
	Below Dark Surface (A11)	Depleted Dark Surface (F7)	31	tine terms of the strength of the second of the second
	irk Surface (A12) lucky Mineral (S1)	Redox Depressions (F8) Vernal Pools (F9)		licators of hydrophytic vegetation and vetland hydrology must be present,
	lleyed Matrix (S4)			inless disturbed or problematic.
	ayer (if present):			
-				
Depth (inc			Libral	ric Soil Present? Yes No
			Пуа	
Remarks:				
HYDROLO	CA.		****	
-	drology Indicators:			<b>.</b>
	ators (minimum of one required; c			Secondary Indicators (2 or more required)
	Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
High Wa	ter Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturatio	• •	Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)
	arks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
	t Deposits (B2) (Nonriverine)	Oxidized Rhizospheres alon		
Drift Dep	oosits (B3) (Nonriverine)	Presence of Reduced Iron (	•	Crayfish Burrows (C8)
	Soil Cracks (B6)	Recent Iron Reduction in Til	led Soils (C6)	Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Water-Si	tained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)
Field Observ	vations:			
Surface Wate	er Present? Yes No	Depth (inches):		

Water Table Present?

Remarks:

Wetland Hydrology Present? Yes

1

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

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

\_\_ No \_

Yes

Depth (inches):

No

### 

( et e tra ha		$(\ldots)$	,	0.70
roject/Site:	City/County	" KAtitas Co	Sampling Date:	0-2-
pplicant/Owner:		State: Wi	A Sampling Point:	DP#
vestigator(s):Seure	Section, To	winship, Range: <u>587</u>	18NR18E	
ndform (hillslope, terrace, etc.):	Local relief	f (concave, convex, none):	Slope (%	%):
bregion (LRR):	Lat:	Long:	Datum:	
bil Map Unit Name:	on skitc/Lablurg	NWI di	assification:	
e climatic / hydrologic conditions on the site ty				1
e Vegetation, Soil, or Hydrolog	gy significantly disturbed?	Are "Normal Circumstan	ces" present? Yes	No
e Vegetation, Soil, or Hydrolog	ay naturally problematic?	(If needed, explain any a	answers in Remarks.)	
UMMARY OF FINDINGS - Attach s			-	res, etc.
lydrophytic Vegetation Present? Yes	No	he Sampled Area		~~
Wetland Hydrology Present? Yes	No with	nin a Wetland? Yes	No	
Remarks:				
<u>Tree Stratum</u> (Plot size:) 1)	Absolute Dominant <u>% Cover Species?</u>	Status Number of Domir	ant Species	(A)
		Total Number of I	Dominant	
				(B)
•		Percent of Domin	ant Species	(B)
	= Total Co		ant Species ACW, or FAC:	、 /
Sapling/Shrub Stratum (Plot size:	= Total Co	over That Are OBL, FA	ACW, or FAC:	、 /
apling/Shrub Stratum (Plot size:	= Total Co )	That Are OBL, FA	ACW, or FAC:	(A/B)
apling/Shrub Stratum (Plot size:	= Total Co ) 	That Are OBL, FA	ACW, or FAC: <b>x worksheet:</b> er of: Multiply by: x 1 =	(A/B)
Sapling/Shrub Stratum         (Plot size:	) = Total Co	Diver     That Are OBL, FA       Prevalence Inde       Total % Cove       OBL species	ACW, or FAC: x worksheet: er of:Muttiply by:	(A/B)
Sapling/Shrub Stratum         (Plot size:	= Totał Co ) 	Dever     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum         (Plot size:	= Totał Co ) 	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum         (Plot size:	) = Total Co	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:	) = Total Co	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:	= Total Co	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:	= Total Co	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:	= Total Co	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)
2. Triticn 701) 3	= Total Co $= Total Co$ $= Total Co$ $= Total Co$ $= Total Co$	Diver     That Are OBL, FA       Prevalence Inde	ACW, or FAC:	(A/B)

orphological Adaptations<sup>1</sup> (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

\_\_\_\_\_ = Total Cover Hydrophytic Vegetation Present? % Bare Ground in Herb Stratum \_\_\_\_\_ % Cover of Biotic Crust \_\_\_\_ Yes\_

\_\_\_\_\_ = Total Cover

Woody Vine Stratum (Plot size: \_\_\_\_\_)

1.

Remarks:

8. \_\_\_\_

2.

\_ No\_

Sampling Point: \_\_\_\_\_

Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Color (moist)         Loc <sup>2</sup> //6         /0/k 3/4	
(inches) Color (moist) % Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	
16 10h 314	
	Cubbhy In
	<u>``</u>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand C	
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis <sup>3</sup> :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	(
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	Unices disturbed of problemate.
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
IYDROLOGY	
IYDROLOGY Wetland Hydrology Indicators:	
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
IYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> </ul>
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> </ul>
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         poots (C3)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         oots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         poots (C3)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         oots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         oots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         oots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         oots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) tland Hydrology Present? Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) tland Hydrology Present? Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) tland Hydrology Present? Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) tland Hydrology Present? Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) tland Hydrology Present? Yes No
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) tland Hydrology Present? Yes No

### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carryon		City/County:	44.1-cs Co. Sampling Date: 10-25
Applicant/Owner:				State: WA Sampling Point: DP#1
nvestigator(s):	Sewall		Section. Township Ra	state: <u>WA</u> Sampling Point: <u>DP#1</u> ange: <u>587/8NR18E</u>
				convex, none): Siope (%):
				· • • • • • • • • • • • • • • • • • • •
Cail Man Unit Name:	Sex - Rolans .	Sketter / .	Lables -	Long Detoin
una elimetia / hudrologia conditiona	on the site trained for	this time of us	No.	_ Long: Datum:
ve Vegetation, Soil				"Normal Circumstances" present? Yes No
Are Vegetation, Soil	_, or Hydrology	_ naturally pro	blematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	- Attach site ma	p showing	sampling point I	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes	No	is the Sampled	
Hydric Soil Present?	Yes	No	within a Wetlan	-
Wetland Hydrology Present?	Yes	No	wittimi a vicual	
/EGETATION Use scient	tific names of pla			
Tree Stratum (Plot size:	)		Dominant Indicator Species? Status	Dominance Test worksheet:
1	<u>, , , , , , , , , , , , , , , , , , , </u>			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				
3				Total Number of Dominant Species Across All Strata: (B)
4			······································	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size	m• ì		= Total Cover	That Are OBL, FACW, or FAC:(A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4		<u> </u>		FACW species x 2 =
5				FAC species $40$ x 3 = $120$
Herb Stratum (Plot size:	,		= Total Cover	FACU species $x 4 = $
Acrona	San	40	FA	
2. Bron-	3 her	40	~~~~	Column Totals: $\underline{80}$ (A) $\underline{370}$ (B)
3				Prevalence Index = B/A =/. Or
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is <3.0 <sup>1</sup>
7				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
8			= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	)			
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
12				
1			= Total Cover	Hydrophytic Vegetation

out the second

DP#11 Sampling Point:

Profile Desc	ription: (Describe to the	depth needed to document th	he indicator or confirm	m the absence of indicators.)	
Depth	Matrix	Redox Feat			
(inches)	Color (moist) %	Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks	
	10123/3			Cebby In	
					······
		······································			
		·······		-	
17					· <u>``</u>
	and the second	RM=Reduced Matrix, CS=Cove o all LRRs, unless otherwise r		Brains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils <sup>3</sup> :	ζ.
Black Hi Hydroge Stratified 1 cm Mu Depleted Thick Da Sandy M Sandy G	bipedon (A2) stic (A3) en Suffide (A4) d Layers (A5) (LRR C) lock (A9) (LRR D) d Below Dark Surface (A12) ark Surface (A12) fucky Mineral (S1) bleyed Matrix (S4) Layer (if present):	Sandy Redox (S5) Stripped Matrix (S Loarny Mucky Min Loarny Gleyed Ma Depleted Matrix (F Redox Dark Surfar ) Depleted Dark Sur Redox Depression Vernal Pools (F9)	6) eeral (F1) ttrix (F2) F3) ce (F6) rface (F7) ns (F8)	<ul> <li>1 cm Muck (A9) (LRR C)</li> <li>2 cm Muck (A10) (LRR B)</li> <li>Reduced Vertic (F18)</li> <li>Red Parent Material (TF2)</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> <li>Hydric Soll Present? Yes No</li> </ul>	
Primary India	drology Indicators: cators (minimum of one red Water (A1)	uired; check all that apply) Salt Crust (B11)		Secondary Indicators (2 or more requir Water Marks (B1) ( <b>Riverine</b> )	
	iter Table (A2)	Biotic Crust (B12		Sediment Deposits (B2) (Riverine)	)
Saturatio		Aquatic Invertebr		Drift Deposits (B3) (Riverine)	
Water M	larks (B1) (Nonriverine)	Hydrogen Sulfide	e Odor (C1)	Drainage Patterns (B10)	

- Sediment Deposits (B2) (Nonriverine) \_\_\_\_ Oxidized Rhizospheres along Living Roots (C3) \_\_\_\_ Dry-Season Water Table (C2)
  - \_\_\_ Crayfish Burrows (C8) 3)

Drift Deposits (B3) (Nonriverine)     Surface Soil Cracks (B6)     Inundation Visible on Aerial Imagery (B7     Water-Stained Leaves (B9)	Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)     Other (Explain in Remarks)	Crayfish Burrows (C8)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes N	lo Depth (inches):	
Water Table Present? Yes N	lo Depth (inches):	
	lo Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)		
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available:

WETLAND	DETERMINATION	DATA FORM -	<b>Arid West Region</b>
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Applicant/Owner:	Project/Site:	en Canyo,	~	City/County:	KA	Hitas Co.	Sampling Date:	0-29
Investigator(s):	Applicant/Owner					State WA	Sampling Point	DP#12
Landform (hillslope, tarsae, etc.):	Investigator(s):	/ Sewall		Section, Tov	vnship, Ra	nge: 587/8	NRISE	
Subregion (LRR):       Lat:       Long:       Datum:         Soil Map Unit Name:       Fee Start Felorat Sketter / Lation / Sketter / Lation / Sketter / No       WVI dessification:         Are dimatic / hydrologic conditions on the site bylead for this time of year? Yes       No       (ff no. explain in Remarks.)         Are Vegetation       Soil								%):
Soit Map Unit Name:       PECE SUP Floburg       NWI classification:         Are dimetal / hydrologic conditions on the site typical for this time of year? Yes       No	• •	,						
Are dimatic / hydrologic conditions on the site typical for this time of year? Yes No (ff no, explain any answers in Remarks.) Are Vegetation Soil or Hydrology naturally problematic? Are "Normal Circumstances" present? Yes No (ff needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Ares Wetland Hydrology Present? Yes No within a Wetland? Yes No (ff needed, explain any answers in Remarks.)  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: 'AcGiver Dominant Indicator 1 a = Total Cover Text of Dominant Species (A)  Additional Stratum (Plot size: = Total Cover Inter Coll ACW, or FAC: (A)  Hard Stratum (Plot size: = Total Cover Inter Coll (A)  Additional Stratum (Plot size: = Total Cover Inter Coll (A)  Additional Stratum (Plot size: = Total Cover Inter Coll (A)  Additional Stratum (Plot size: = Total Cover Inter Coll (A)  Additional Stratum (Plot size: = Total Cover Inter Coll (A)  Addition Totals: (A)  Additional Stratum (Plot size:	Soil Man I Init Name:	eeser-Rela	J Sketter / 1	Labler		NWI classific	ation:	
Are Vegetation       Soil       or Hydrology       significantly disturbed?       Are "Normal Circumstances" present? 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?       Yes       No         Hydrophytic Vegetation Present?       Yes       No         Vestand Hydrophytic Vegetation Researchest       No       Its the Sampled Area         Vestand Hydrophytic Vegetation Researchest       No       That Are OBL, FACW, or FAC:       (A)         1	Are elimatic / hydrologic condi	tions on the site horic	al for this time of ve	ar? Vac	No	/If no, evolain in R	emarks )	
Are VegetationSoilor Hydrologynaturally problematic?       (f needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       YesNo							Taxa and the second sec	No
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes       No         Hydrophytic Vegetation Present?       Yes       No         Weland Hydrology Present?       Yes       No         Weland Hydrology Present?       Yes       No         Weland Hydrology Present?       Yes       No         Tree Stratum       (Plot size:								NO
Hydrophytic Vegetation Present?       Yes       No       Is the Sampled Area         Hydroic Soil Present?       Yes       No       Is the Sampled Area         Welland Hydrology Present?       Yes       No       No         Remarks:       No       Is the Sampled Area       No         VEGETATION - Use scientific names of plants.       Dominant Indicator       Dominant Species         I	-							
Hydric Soil Present?       Yes       No       Wetland Hydrology Present?       Yes       No         Wetland Hydrology Present?       Yes       No       Within a Wetland?       Yes       No         Remarks:       Absolute       Dominante Test worksheet:       No       No       No         Yes       Yes       No       Mo       Dominance Test worksheet:       No         Tree Stratum (Plot size:       Yes       No       No       Total Number of Dominant Species         1.       Yes       No       Total Number of Dominant Species       That Are OBL, FACW, or FAC:       (A)         2.       Total Number of Dominant Species       That Are OBL, FACW, or FAC:       (AB)       (B)         1.       Percent of Dominant Species       That Are OBL, FACW, or FAC:       (AB)         1.       Total Number of Dominant Species       That Are OBL, FACW, or FAC:       (AB)         1.       Total Cover       Prevalence Index worksheet:       (AB)         2.       Total Species       x1 =       FAC Species       x2 =         3.       Secies       X2 =       FAC Species       x2 =       (AB)         1.       Bronw Trefs       So       Secies       X3 =       (AC)       (B)	SUMMARY OF FINDING	GS – Attach site	e map showing	sampling	g point l	ocations, transects	, important featu	ires, etc.
Hydric Soil Present?       Yes       No       Wetland Hydrology Present?       Yes       No         Wetland Hydrology Present?       Yes       No       Within a Wetland?       Yes       No         Remarks:       Absolute       Dominante Test worksheet:       Number of Dominant Species       That Are OBL, FACW, or FAC:       (A)         1.	Hydrophytic Vegetation Pres	sent? Yes	No		. O			/
Treaming       Top       Top       Top         Remarks:       Image: Second Stratum       Providence Test worksheet:       Number of Dominant Species         1						n Area Nan	Na La	
VEGETATION – Use scientific names of plants.         Image: Species Province Dominant Indicator Species Province Tominant Species That Are OBL, FACW, or FAC:	Wetland Hydrology Present?			- Withi	n a wettai	nd? Tes	NO	
Iree Stratum (Plot size:)       Absolute % Cover       Dominant Indicator Species 7 Status       Dominance Test worksheet: Number of Dominant Species         1.	VEGETATION – Use so	cientific names	of plants.		1990-1990-1990-1990-1990-1990-1990-1990			
1.			Absolute	Dominant	Indicator	Dominance Test work	sheet:	
2.								
3						That Are OBL, FACW,	or FAC:	(A)
4.								
Sapling/Shrub Stratum (Plot size:)       = Total Cover       Prevalence Index worksheet: (AB)         1				· · · · · · · · · · · · · · · · · · ·		Species Across All Stra	ita:	(8)
1.       Prevalence Index worksheet:         2.				= Total Co	ver			(A/B)
3.						Prevalence Index wor	ksheet:	
4.	2			. <u></u>		Total % Cover of:	Multiply by	<u></u>
5.	3			-	******	OBL species	x 1 =	
Image: Stratum (Plot size:)	4			. <u></u>				
Herb Stratum (Plot size:)       50       VIPL species x 5 =         1.       Bronw Frick       50       Column Totals: (A) (B)         2.	5							
1.       Bronw fick       50       M2       Column Totals:       (A)       (B)         2.          (A)       (B)         3.          (A)          4.               5.               6.               7.                8.            Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         1.                2.                   1.                  2.	Harb Stratum (Plot size:	)		_ = Total Co	ver			
2.	1. Bronw	techan	50		NI			
3.       Prevalence Index = B/A =							(A)	(D)
4.       Hydrophytic Vegetation Indicators:         5.       Dominance Test is >50%         6.       Prevalence Index is \$3.0 <sup>1</sup> 7.       Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         8.       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         1.       Problematic Hydrophytic vegetation <sup>1</sup> (Explain)         1.       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         E = Total Cover       Hydrophytic Vegetation								
6.								
7.	5			• •••••••				
8.	6							
8.								
Woody Vine Stratum (Plot size:)	8						•	•
1.	·			_ = Total Co	ver			
2 = Total Cover Hydrophytic Vegetation		size:	)					
= Total Cover Hydrophytic Vegetation	Woody Vine Stratum (Plot		_)					gy must
	Woody Vine Stratum (Plot :		_)		<u> </u>			gy must

Sampling Point: \_\_\_\_\_\_\_

Profile Description: (Describe to the depth	n needed to document the indicator or confir	m 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
16 10 N3/4		colog lan
	······································	
		•
		×
<sup>1</sup> Type: C=Concentration D=Depletion RM=F	Reduced Matrix, CS=Covered or Coated Sand (	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soli indicators: (Applicable to all L		Indicators for Problematic Hydric Solls <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):		Hydric Soll Present? Yes No
Remarks:		
	· · · · · · · · · · · · · · · · · · ·	······································
HYDROLOGY		

Primary Indicators (minimum of one required; ch	eck all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Sc	ils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspec	ions), if available:
Remarks:		

Wetland Hydrology Indicators:

Project/Site:	Freed	Carryon	City	/County: KA	Hites Co.	Sampling Date: <u>10-29</u> Sampling Point: <u>DP世1</u> N R 18 E
oplicant/Owner:					State: WA s	Sampling Point: DP#1
nvestigator(s):	24 8	Sewall	Ser	ction, Township, Ra	nae: 587/8	NRISE
						Slope (%):
						<u> </u>
oil Man Unit Name:	Pees	er-Relans.	Sketter / La	stre -	NWI classificat	Datum:
re climatic / hydrologi	c conditions o	n the site typical for	this time of year?	Yes No	(If no, explain in Rer	marks.)
re Vegetation			-			esent? Yes No
re Vegetation					eded, explain any answers	
-						
	NUINGS -	Attach site ma	ap snowing sa			important features, etc
Hydrophytic Vegetati	on Present?	Yes	No	is the Sampled	Area	
Hydric Soil Present?		Yes	No	within a Wetlar		No
Wetland Hydrology P	resent?	Yes	<u>No</u>			
Tree Stratum (Plot s			Absolute D	ominant Indicator	Dominance Test works	
1	<u></u>		······		Number of Dominant Spe That Are OBL, FACW, or	
2 3					Total Number of Dominal Species Across All Strata	
4		·		Total Cover	Percent of Dominant Spe That Are OBL, FACW, or	ecies FAC: (A/B)
1					Prevalence Index works	sheet:
2					Total % Cover of:	Multiply by:
3						x1=
4					FACW species	
5						x3=
Herb Stratum (Plot s	size:	)		Total Cover	UPL species	x4= x5=
1. <i>ISra</i>	onus t	ector .		<u></u>		(A) (B)
2	11519			NT		
3						= B/A =
J					Hydrophytic Vegetation	
4						50%
4 5		·			Dominance Test is >	
4 5 6					Dominance Test is > Prevalence Index is Morphological Adapt	≤3.0 <sup>1</sup> tations <sup>1</sup> (Provide supporting
4 5 6 7					Dominance Test is >     Prevalence Index is     Morphological Adapt     data in Remarks	≤3.0 <sup>1</sup> tations <sup>1</sup> (Provide supporting or on a separate sheet)
4 5 6 7 8					Dominance Test is >     Prevalence Index is     Morphological Adapt     data in Remarks	≤3.0 <sup>1</sup> tations <sup>1</sup> (Provide supporting
4 5 6 7 8 Woody Vine Stratum 1	(Płot size:	)	=	Total Cover	Dominance Test is >     Prevalence Index is     Morphological Adapted ata in Remarks     Problematic Hydroph	≤3.0 <sup>1</sup> tations <sup>1</sup> (Provide supporting or on a separate sheet) hytic Vegetation <sup>1</sup> (Explain) and wetland hydrology must
5 6 7 8	(Płot size:	)	=	Total Cover	Dominance Test is >     Prevalence Index is     Morphological Adapt     data in Remarks     Problematic Hydroph <sup>1</sup> Indicators of hydric soil a     be present, unless disture     Hydrophytic	≤3.0 <sup>1</sup> tations <sup>1</sup> (Provide supporting or on a separate sheet) hytic Vegetation <sup>1</sup> (Explain) and wetland hydrology must
4 5 6 7 8 Woody Vine Stratum 1	(Plot size: _	)		Total Cover	Dominance Test is >     Prevalence Index is     Morphological Adapt     data in Remarks     Problematic Hydroph <sup>1</sup> Indicators of hydric soil a     be present, unless distur     Hydrophytic     Vegetation	≤3.0 <sup>1</sup> tations <sup>1</sup> (Provide supporting or on a separate sheet) hytic Vegetation <sup>1</sup> (Explain) and wetland hydrology must

Sampling Point: \_\_\_\_

DP#14

Dauth Makin Daday Fashing	onfirm the absence of indicators.)
Depth Matrix Redox Features	
	oc <sup>2</sup> <u>Texture</u> <u>Remarks</u>
16 10/23/0	cobby h
	2
	······································
	X
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sa	and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histoci (H) Calls y House (CS)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	<u> </u>
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	
Туре:	
Depth (inches):	Hydric Soll Present? Yes No
Remarks:	
Wetland Hydrology Indicators:	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Salt Crust (B11)         High Water Table (A2)       Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> </ul>
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         ng Roots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         ng Roots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         ng Roots (C3)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         sils (C6)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         ng Roots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         sils (C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         ng Roots (C3)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)         sils (C6)       Saturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)

Project/Site: Crcev (	Carryon	City	/County:	Hites Co. sam	bling Date: 10 - 29
volicant/Owner:				State: WA Sam	pling Point: DPTT
nvestigator(s):	enall	Sec	tion. Township. Ra	nge: SBTIBN	RISE
andform (hillslope, terrace, etc.):					
Subregion (LBR):		Lat:		Long	Datum:
oil Map Unit Name:	1 - Reland	Shetter / La	6400 -	NWI classification:	
re climatic / hydrologic conditions on					
	• -	-			
re Vegetation, Soil, o				"Normal Circumstances" presen	
re Vegetation, Soil, o	r Hydrology	naturally problem	natic? (If n	eeded, explain any answers in F	emarks.)
SUMMARY OF FINDINGS - A	Attach site m	ap showing sa	mpling point I	ocations, transects, imp	ortant features, etc.
Hydrophytic Vegetation Present?	Yes	No7	In the Develo	1 Anna	
Hydric Soil Present?	Yes		is the Sampled within a Wetla		No
Wetland Hydrology Present?	Yes		within a weta	no? res	NO
		1			
EGETATION - Use scientifi	c names or p		ominant Indicator	Dominance Test worksheet	•
Tree Stratum (Plot size:	)		becies? <u>Status</u>	Number of Dominant Species	
1.		······· ······························		That Are OBL, FACW, or FAC	
2				Total Number of Dominant	7
3	<u> </u>	<u></u>		Species Across All Strata:	(B)
4				Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: _	)	=	otal Cover	That Are OBL, FACW, or FAC	C: (A/B)
1.				Prevalence Index workshee	t:
2				Total % Cover of:	Multiply by:
3.				OBL species	
4				FACW species	
5				FAC species	
Herb Stratum (Plot size:	)	= 1		FACU species	
1. Agrophar rep	ns	60	FAL	UPL species Column Totals:	
2. Bronus to	ch-	30	NI		
3				Prevalence Index = B/A	
f				Hydrophytic Vegetation Ind	
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0 Morphological Adaptation	
7				data in Remarks or or	a separate sheet)
				Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
0		- 7	Cotal Cover		
	)	=1	fotal Cover		
Woody Vine Stratum (Plot size:				<sup>1</sup> Indicators of hydric soil and h	
1				<sup>1</sup> Indicators of hydric soil and v be present, unless disturbed	
0				be present, unless disturbed Hydrophytic	
Woody Vine Stratum (Plot size: 1		= 1	Total Cover	be present, unless disturbed	or problematic.

Sampling Point: \_\_\_\_\_

Profile Desc	ription: (Describe to	the depth n	eeded to docu	ment the ir	ndicator o	or confirm	the absence	e of indicators	B.)	
Depth	Matrix		Redo	x Features				•		
(inches)	Color (moist)	_%(	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	·	Remarks	
14	1012 3/4						cobbh	In		
							/			
·····										
								· ·····		·
				·				· · · · · · · · ·		<u>```</u>
the second se	ncentration, D=Deple					d Sand Gra			ore Lining, M=N	
-	ndicators: (Applicat	Ne to all Little			ia.)				atic Hydric So	lis":
Histosol			Sandy Red	• •				Muck (A9) (LR	•	
Histic Ep	vipedon (A2)		Stripped Ma Loamy Muc	• •	/E4)			Muck (A10) (L ced Vertic (F1)		
	n Sulfide (A4)		Loamy Mut	•	• •			ced venuc (Pili Parent Material		
	Layers (A5) (LRR C)		Depleted M		(12)			· (Explain in Re		
	ck (A9) (LRR D)		Redox Darl		F6)			(		
	Below Dark Surface	(A11)	Depleted D	•	,					
	rk Surface (A12)		Redox Dep				<sup>3</sup> Indicator	s of hydrophyti	c vegetation ar	id
Sandy M	ucky Mineral (S1)		Vernal Poo	ls (F9)			wetland	i hydrology mu	ist be present,	
	leyed Matrix (S4)						uniess	disturbed or pr	oblematic.	
	ayer (if present):								-	
Туре:		·····	-							
Depth (inc	:hes):		-				Hydric So	Il Present?	Yes	No
Remarks:										
										:
HYDROLO	GY						······			
	irology indicators:									
-	ators (minimum of one	e required: ch	eck all that appl	v)			Seco	ndary Indicato	rs (2 or more n	equired)
	Water (A1)		Salt Crust		**************************************				B1) ( <b>Riverine</b> )	299911001
	ter Table (A2)		Biotic Cru	• •				•	osits (B2) (Rive	rino)
Saturatio	. ,			vertebrates	(B13)			•	(B3) ( <b>Riverine</b> )	
	arks (B1) ( <b>Nonriverin</b>	•)		Sulfide Od				Drainage Patte	• • • •	
	t Deposits (B2) (Nonr	-			• •	Living Root		•	ater Table (C2)	•
	osits (B3) (Nonriverir	-		of Reduce	-	-		Crayfish Burro	•	'
	Soil Cracks (B6)	/				, i Soils (C6)		-	ble on Aerial In	agery (C9)
	on Visible on Aerial Im	acerv (B7)		Surface (			-	Shallow Aquita		
	ained Leaves (B9)	-3, ()		plain in Rei				FAC-Neutral T	• •	
Field Observ										
Surface Wate		No	Depth (in	ches):						
Water Table I		No				-				
Saturation Pr		No		-		Wotla	nd Hydrolov	y Present?	Voc	No
(includes cap		· /// _	Deput (#1	uios)		- Weua		gy riesenti		NU
	corded Data (stream g	auge, monito	ring well, aerial	photos, pre	vious ins	pections), it	f available:			
Remarks:										

Project/Site: Green Carryo	City/County: KA+++ Co. Sampling Date: 10-29-
Applicant/Owner:	State: WA Sampling Point: DATE 16
Investigator(s):	Section, Township, Range: 587/8NR18E
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%):
Subregion (LRR):	Lat: Long: Datum:
Soil Map Unit Name:	we skette / Lable NWI classification:
	cal for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach si	e map showing sampling point locations, transects, important features, etc.
	No     Is the Sampled Area       No     within a Wetland?       No     No
VEGETATION – Use scientific names	-
Tree Stratum         (Plot size:)           1	Total Number of Dominant / Species Across All Strata: (B)
4	= Total Cover Percent of Dominant Species (A/B)
2	Total % Cover of: Multiply by:

B)
B)
3)
E

Sampling Point:	DAT 14
-----------------	--------

Profile Description: (Descr	ibe to the depth ne	eded to document the	e indicator o	or confirm	the absence of indicators.)
Depth <u>Matri</u>		Redox Featur	res		
(inches) Color (moist		olor (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
14 10 YR3	13				eubby in
		······································		<u> </u>	
					Ň
<sup>1</sup> Type: C=Concentration, D=	Depletion PM-Pode	upod Metrix, CS=Coulor	and or Cooto		ains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil indicators: (Ap				u Sanu Gr	Indicators for Problematic Hydric Solls <sup>3</sup> :
1 -			Juguij		-
Histosol (A1)		_ Sandy Redox (S5)	<b>、</b>		1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	-	Stripped Matrix (S6	-		2 cm Muck (A10) (LRR B)
Black Histic (A3)		Loamy Mucky Mine Loamy Gleved Mati	· ·		Reduced Vertic (F18)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LI		Loarny Gleyed Matrix Depleted Matrix (F3	• •		Red Parent Material (TF2) Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	• •	Redox Dark Surface	•		Outer (Explain in Remarks)
Depleted Below Dark Su		Depleted Dark Surface	. ,		
Thick Dark Surface (A12	• • -	Depleted Dark Sona Redox Depressions	• •		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S		Vernal Pools (F9)	(10)		wetland hydrology must be present,
Sandy Mucky Mineral (S	-				unless disturbed or problematic.
Restrictive Layer (if presen					
Type: Depth (inches):					Hydric Soll Present? Yes No
Remarks:					
Ronaiks.				,	+
		/	no.	inter	LAS .
HYDROLOGY					
Wetland Hydrology Indicate	Drs:				

Primary Indicators (minimum of one required; ch	eck all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	bils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes <u>No</u> No	Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	tions), if available:
(0	······································	
Remarks:		

Project/Site: Crcau (	Canyon	(	City/Count	y:K.A	Hitas Co. State: INA	Sampling Date:	10-29
						Company Func.	· · ·
vestigator(s):	ensil	(	Section, T	ownship, Ra	inge: 587/	BNR181	arr. Mare.
andform (hillslope, terrace, etc.):							
ubregion (LRR):		Lat:			_ Long:	Detu	ım:
bil Map Unit Name:	1 - Relow S.	ketter 1 l	Les b live	2	NWI class	ification:	
e climatic / hydrologic conditions on	the site typical for th	is time of yea	ar? Yes	<u></u> No	(If no, explain ir	n Remarks.)	
re Vegetation, Soil, or	r Hydrology	significantly o	disturbed?	Are	"Normal Circumstances	s" present? Yes	No
e Vegetation, Soil, or	r Hydrology	naturally prol	blematic?	(if ne	eded, explain any ans	wers in Remarks.)	
UMMARY OF FINDINGS - A	Attach site map	showing	samplii	ng point l	ocations, transec	ts, important fe	atures, etc.
Hydrophytic Vegetation Present?	Yes 1	No			• • • • • • • • • • • • • • • • • • •		
Hydric Soil Present?	Yes 1		~ 1	he Sampled hin a Wetlar		No	
Wetland Hydrology Present?	Yes !	No	Wit	nin a wetia	nar res	NO	-
EGETATION - Use scientifi	c names of plai						
Tree Stratum (Plot size:		% Cover	Species?		Dominance Test we Number of Dominan	t Species	6 10
1 2					That Are OBL, FAC	N, of FAC:	(A)
 					Total Number of Dor Species Across All S		( (B)
							(6)
Sapling/Shrub Stratum (Plot size:				over	Percent of Dominant That Are OBL, FAC	N, or FAC:	(A/B)
I			. <u></u>		Prevalence Index w	/orksheet:	
2,					Total % Cover o		y by:
}					OBL species FACW species		
					FAC species		
**				over	FACU species		
terb Stratum (Plot size:	)	50	-	FACU	UPL species		
1. Lacture ser					Column Totals:	(A)	(B)
3.					Prevalence Ind	lex = B/A =	
					Hydrophytic Veget		
),					Dominance Tes	t is >50%	
					Prevalence Inde		
, 					Morphological A	daptations <sup>1</sup> (Provide arks or on a separate	supporting
					Oata in Rema Problematic Hyd		
			= Total C	over		nophytic vegetation	(contraint)
Moody Vine Stratum (Plot eize:	)				1	aail and wationd bud	
					Indicators of hydric	SON SUR MERSIO UM	rology must
1					<sup>1</sup> Indicators of hydric be present, unless d		
Woody Vine Stratum (Plot size:			= Total C		be present, unless d Hydrophytic Vegetation		ntic.

Sampling Point: \_

Depth	Matrix		Redo	ox Features					
nches)	Color (moist)		Color (moist)	<u>% Type</u>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
14	7,5YR	25/3	-	-		Co bly	m		
					·····				
		<del></del>							
									<u> </u>
			Deduced Methodo	- <u></u>				D 11.1	
			Reduced Matrix, C RRs, unless othe		ileo Sano Gra			Pore Lining, matic Hydric	
-				-				•	: 30415 ;
Histosol			Sandy Red	. ,			luck (A9) (I	•	
— ·	lipedon (A2)		Stripped M	• •			luck (A10)		
_ Black His				cky Mineral (F1)			ed Vertic (F	-	
	n Sulfide (A4)			yed Matrix (F2)			arent Mater		
	Layers (A5) (LRF		Depleted N	· ·		Other (	Explain in I	Remarks)	
	ck (A9) (LRR D)	AAA		k Surface (F6)					
	Below Dark Surfa	(TTA) SUB	·	Park Surface (F7)		31	of bude t	اد - ا - مالا	
	rk Surface (A12) ucky Mineral (S1)			pressions (F8)				ytic vegetatio	
	• • •		Vernal Poo	na (ra)				nust be prese	mil,
	leyed Matrix (S4) ayer (if present)	······································				uniess d	isturbed of	problematic.	
	ayer (n present)	•							
Type:									
	hes):					Hydric Soll	Present?	Yes	No
					6M	ist	nts		
emarks: /DROLO					NO	1	, to		
Protection (DROLOG)	Irology Indicator				ND	kst.			
Protection (PROLOG)	Irology Indicator ators (minimum o		check all that app		ND ND	k.d Secor	idary Indica	itors (2 or mo	
emarks: /DROLOG /etland Hyd rimary Indic Surface 1	<b>Irology Indicator</b> ators (minimum o Water (A1)		Salt Crust	(B11)	ND		dary Indica	(B1) ( <b>Riveri</b>	ne)
PROLOG	<b>Irology Indicator</b> ators (minimum o Water (A1) ter Table (A2)		Salt Crust Biotic Cru	t (B11) st (B12)			dary Indica /ater Marks ediment De	(B1) ( <b>Riveri</b> posits (B2) (I	ne) Riverine)
emarks: /DROLOO /etland Hyd rimary Indic Surface 1 High Wa Saturatio	<b>Irology Indicator</b> ators (minimum o Water (A1) ter Table (A2) m (A3)	f one required	Salt Crust Biotic Cru Aquatic In	t (B11) st (B12) ivertebrates (B13)			dary Indica /ater Marks ediment De	(B1) ( <b>Riveri</b>	ne) Riverine)
emarks: /DROLOG /etland Hyc rimary Indic Surface 1 High Wa Saturatio Water Mi	<b>Irology Indicator</b> ators (minimum o Water (A1) ter Table (A2) in (A3) arks (B1) ( <b>Nonriv</b>	f one required erine)	Salt Crust Biotic Cru Aquatic In Hydrogen	t (B11) st (B12) overtebrates (B13) Sulfide Odor (C1)	· ·······	<u>Secor</u> W S D D	idary Indice /ater Marks ediment De rift Deposit rainage Pa	(B1) ( <b>Riveri</b> posits (B2) (I s (B3) ( <b>River</b> tterns (B10)	ne) Riverine) ine)
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emarks: /DROLOG /etland Hyo rimary Indic Surface 1 High Wa Saturatio Water Ma Drift Dep Surface 1 Nater St eld Observ urface Water /ater Table 1 aturation Pri- ncludes cap escribe Rec	Irology Indicator ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriv t Deposits (B2) (No osits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria ained Leaves (B9 rations: er Present? Present? esent? illary fringe)	f one required erine) lonriverine) verine) l Imagery (B7 ) Yes N Yes N Yes N	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized I Presence Recent Inc Thin Much Other (Ex lo Depth (in Depth (in Depth (in	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1) Rhizospheres alon of Reduced Iron ( on Reduction in Til c Surface (C7) plain in Remarks) aches): iches): photos, previous in	ig Living Root C4) led Soils (C6) 	<u>Secor</u> W S D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D S D D S D D S D S D S D S D S D S D S D S D S D S D S D S D S D S S D S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S S	dary Indica /ater Marks ediment De rift Deposit rainage Pa ry-Season rayfish Bun aturation Vi hallow Aqu AC-Neutral	(B1) ( <b>River</b> i eposits (B2) (I s (B3) ( <b>River</b> i tterns (B10) Water Table rows (C8) isible on Aeria itard (D3) Test (D5)	ne) Riverine) ine) (C2) al Imagery (CS

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

WETLAND	) DETERMINATION	DATA FORM -	- Arid West Region
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Project/Site: Grand	Carryon _		City/County:KA	Hitas Co.	_ Sampling Date:	10-29
pplicant/Owner:				State: VVII	Sampling Point:	$\mu$ , $\mu$
vestigator(s):	ewall		Section, Township, Ra	nge: 587/8	3NR18E	
andform (hillslope, terrace, etc.):						
ubregion (LRR):		Lat:		Long:	Datum:	
oil Map Unit Name:	1 - Reland 1	Sketter / 6	Lables /	NWI classifi	cation:	
e climatic / hydrologic conditions on						1
re Vegetation, Soil, o				Normal Circumstances"		No
re Vegetation, Soil, o				eded, explain any answe		
UMMARY OF FINDINGS - /					-	ures, etc.
Hydrophytic Vegetation Present?	Yes	No /				
Hydric Soil Present?	Yes		Is the Sampled		No	
Wetland Hydrology Present?	Yes		within a Wetlar	na? res	NO	
EGETATION - Use scientifi	c names of pl	ants.				
			Dominant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:			Species? Status	Number of Dominant S That Are OBL, FACW,		(A)
2				Total Number of Domi	nant	
}				Species Across All Str	ata:	(B)
4 Sapling/Shrub Stratum (Plot size:			= Total Cover	Percent of Dominant S That Are OBL, FACW,		(A/B)
1				Prevalence Index wo	rksheet:	
2.				Total % Cover of:	Multiply b	<u>iy:</u>
3				OBL species		
				FACW species		
).				FAC species		
lerh Stratum (Plot size:	)		= Total Cover	FACU species UPL species		******
<u>lerb Stratum</u> (Plot size: <i>Branus</i> the	turun	30	/I	Column Totals:		(8)
2					(\/ x = B/A =	
,				Hydrophytic Vegetati		
5				Dominance Test is		
)				Prevalence Index		
7				Morphological Ada	aptations <sup>1</sup> (Provide su ks or on a separate sh	porting
3	·····			Problematic Hydro	•	•
Noody Vine Stratum (Plot size:	·······		= Total Cover			
1 2				<sup>1</sup> Indicators of hydric so be present, unless dist		
			= Total Cover	Hydrophytic Vegetation Present? Ye	es No	
% Bare Ground in Herb Stratum Remarks:	% Co	over of Biotic Ci	ust		es No	

Sampling Point: \_\_\_\_\_\_P#19

(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Text	ture Remarks
		70		and the second s	
14	10y 3/3				bbly in
					······································
<u></u>					
					×
			duced Matrix, CS=Covered or Coated		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
ydric Soll I	ndicators: (Applica	ble to all LR	Rs, unless otherwise noted.)	Indi	cators for Problematic Hydric Solls <sup>3</sup> :
_ Histosol	(A1)		Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
	oipedon (A2)		Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
_ Black Hi			Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
	Layers (A5) (LRR C	;)	Depleted Matrix (F3)		Other (Explain in Remarks)
-	ick (A9) (LRR D)		Redox Dark Surface (F6)		
	Below Dark Surface	<b>(A</b> 11)	Depleted Dark Surface (F7)		
-	ark Surface (A12)		Redox Depressions (F8)		icators of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Pools (F9)		etland hydrology must be present,
	Bleyed Matrix (S4)			U	nless disturbed or problematic.
	Layer (if present):				
•••			-		
Depth (ind	ches):			Hydr	ic Soil Present? Yes No
	-				
letland Hyd	drology Indicators:				
letland Hyd	-	ne required; c	heck all that apply)		Secondary Indicators (2 or more required)
<b>letland Hy</b> o rimary Indic	drology Indicators:	ne required; c	heck all that apply) Salt Crust (B11)		Secondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
rimary Indic	drology Indicators: ators (minimum of or	ne required; c			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
rimary Indic	drology Indicators: ators (minimum of or Water (A1) tter Table (A2)	ne required; c	Salt Crust (B11)		Water Marks (B1) (Riverine)
<b>/etland Hyd</b> rimary Indic Surface High Wa Saturatio	drology Indicators: ators (minimum of or Water (A1) tter Table (A2)		Salt Crust (B11) Biotic Crust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
<b>/etland Hyd</b> rimary Indic Surface High Wa Saturatic Water M	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3)	ne)	Salt Crust (B11) Biotic Crust (B12) Aquatic invertebrates (B13)	iving Roots (C3)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
etland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer	drology Indicators: cators (minimum of or Water (A1) iter Table (A2) on (A3) iarks (B1) (Nonriveri	ne) Iriverine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> </ul>	-	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
Iteland Hype       rimary Indic	drology Indicators: cators (minimum of or Water (A1) tter Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor	ne) Iriverine)	Salt Crust (B11)     Biotic Crust (B12)     Aquatic Invertebrates (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Li		<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> </ul>
Vetland Hyd       rimary Indic	drology Indicators: cators (minimum of or Water (A1) trer Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver	ne) Iriverine) ine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> </ul>		<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatio	drology Indicators: cators (minimum of or Water (A1) nter Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver Soil Cracks (B6)	ne) Iriverine) ine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> </ul>		<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatio Water-S	drology Indicators: cators (minimum of or Water (A1) tter Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Non cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9)	ne) Iriverine) ine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> </ul>		<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Shallow Aquitard (D3)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S ield Obser	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations:	ne) Iriverine) ine) magery (B7)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>		<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Shallow Aquitard (D3)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Drift Dep Surface Inundatic Water-S ield Observ urface Wate	drology Indicators: cators (minimum of or Water (A1) trer Table (A2) on (A3) larks (B1) (Nonriveri nt Deposits (B2) (Nor posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye	ne) priverine) ine) magery (B7) es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches):	Soils (C6)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Shallow Aquitard (D3)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Drift Dep Surface Inundatic Water-S Ield Obser urface Water	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin the Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye	ne) niverine) ine) magery (B7) es No es No	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> <li>Depth (inches):</li> <li>Bepth (inches):</li> </ul>	Soils (C6) 	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Shallow Aquitard (D3)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Drift Dep Uniface Unundation Water-S ield Obser urface Water Vater Table aturation Pr	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin the Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> <li>Depth (inches):</li> <li>Bepth (inches):</li> </ul>	Soils (C6) 	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Shallow Aquitard (D3)</li> </ul>
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Der Drift Der Uniface Inundatio Water-S ield Obser vurface Water Vater Table aturation Pr ncludes cap	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Li</li> <li>Presence of Reduced Iron (C4)</li> <li>Recent Iron Reduction in Tilled</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> <li>Depth (inches):</li> <li>Bepth (inches):</li> </ul>	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Vetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Der Drift Der Unift Der Unift Der Surface Unundation Water-S Vater Table Saturation Princludes cap	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Primary Indic Surface J High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation Water-S Field Observ Surface Water Surface Water Surface Water Surface Water Surface Receiption	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Vetland Hyo Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Der Drift Der Unift Der Unift Der Surface Unundation Water-S Vater Table Saturation Princludes cap	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Deg Drift Deg Unface Water-Si leld Observiourface Water Vater Table vater Table vater Table saturation Pr ncludes cap vescribe Rec	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S leid Obser urface Water /ater Table aturation Pr ncludes cap escribe Rec	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Deg Drift Deg Urface Undation Water-S Ield Obser urface Water Vater Table aturation Pr ncludes cap vescribe Rec	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
Vetland Hyd rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S Neld Obser urface Water Vater Table aturation Pr ncludes cap escribe Rec	drology Indicators: cators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) (Nonriverin to Deposits (B2) (Nonriver Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Ye present? Ye resent? Ye	ne) priverine) ine) magery (B7) es No es No es No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Soils (C6) - - - - - - - - - -	Water Marks (B1) (Riverine)     Sediment Deposits (B2) (Riverine)     Drift Deposits (B3) (Riverine)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Crayfish Burrows (C8)     Saturation Visible on Aerial Imagery (C9     Shallow Aquitard (D3)     FAC-Neutral Test (D5)

Project/Site:	<u> </u>	City/County:K	Hites Co. Sampling Date: 10-2
Applicant/Owner:			State: WA Sampling Point: DP#
Investigator(s): Sewall		Section, Township, Ra	INGE: SETIONRISE
			convex, none): Slope (%):
Subregion (I RR):	Lat <sup>.</sup>		Long Datum
Soil Map Unit Name: Peaser Relan	1 Skthe / L	ables /	NWI classification:
Are climatic / hydrologic conditions on the site typica			
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology _			eeded, explain any answers in Remarks.)
-			ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No		
Hydric Soil Present? Yes	No	Is the Sampled	
	No	within a Wetla	nd? Yes No
/EGETATION – Use scientific names o	f plants.		
		Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species? Status	Number of Dominant Species (A)
2			Total Number of Dominant
3			Species Across All Strata: / (B)
4		= Total Cover	Percent of Dominant Species (A/B)
1			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species         x 2 =           FAC species         x 3 =
5		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)			UPL species x 5 =
1. Bronvs term		NI	Column Totals: (A) (B)
2. Trie tim arsterion 3. Ladra serich		FAC	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
4 5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 <sup>1</sup>
7			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)		= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12		•	

DD# 204 21

Sampling Point:

h needed to document the indicator or c	onfirm the absence of indicators.)
Redox Features	
<u>Color (moist)</u> % Type <sup>1</sup> L	oc <sup>2</sup> <u>Texture</u> <u>Remarks</u>
	abby in
	· · · · · · · · · · · · · · · · · · ·
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	······································
	<u>×</u>
Reduced Matrix, CS=Covered or Coated Sa	and Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
	Indicators for Problematic Hydric Soils <sup>3</sup> :
Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Depleted Matrix (F3)	Other (Explain in Remarks)
Redox Dark Surface (F6)	
Depleted Dark Surface (F7)	
Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Vernal Pools (F9)	wetland hydrology must be present,
	unless disturbed or problematic.
	Hydric Soil Present? Yes No
	······································
; check all that apply)	Secondary Indicators (2 or more required)
	Water Marks (B1) (Riverine)
Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
	Redox Features         Color (moist)       %       Type <sup>1</sup> L

Saturation (A3)

	Water Marks (B1) (Nonriverine)
	Sediment Deposits (B2) (Nonriverine)
_	Drift Deposits (B3) (Nonriverine)

Surface Soil Cracks (B6)

ine)	 Presence of Reduced Iron (C4)		
	 Recent Iron Reduction in Tilled Soils (C6)		
nagery (B7)	 Thin Muck Surface (C7)		

Other (Explain in Remarks)

Depth (inches):

\_\_\_\_ Aquatic Invertebrates (B13)

\_ Hydrogen Sulfide Odor (C1)

_	Inundation Visible on Aerial Imagery (B7)	
	Water-Stained Leaves (B9)	

Field	Observations:
n	

Surface Water Present? Water Table Present?

Water Table Present?	Yes	No Depth (inches): _
Saturation Present?	Yes	No Depth (inches): _
(includes capillary fringe)		

Yes

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

No

Remarks:

No

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

\_\_\_\_ Saturation Visible on Aerial Imagery (C9)

\_\_ Drainage Patterns (B10)

\_\_\_ Crayfish Burrows (C8)

\_\_ Shallow Aquitard (D3)

\_ FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes

\_\_\_\_ Oxidized Rhizospheres along Living Roots (C3) \_\_\_\_ Dry-Season Water Table (C2)