

WETLAND DETERMINATION DATA FORM – British Columbia

Project/Site: _____ City/District: _____ Date YYMMDD: _____
Applicant/Owner: _____ Province _____ Plot Number: _____
Delineator(s): _____ Parcel Identifier (PID): _____
Mesoslope Position* _____ Surface Shape* (CC, CV, ST): _____ Slope (%): _____
Ecoprovince: _____ Lat: _____ Long: _____ Datum: _____
*denotes fields consistent with LMH25 (more info Pg. 3) CWCS/HGM# Class: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" 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 _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Hydric Soil Present? Yes _____ No _____	
Wetland Hydrology Present? Yes _____ No _____	
Remarks: _____	

VEGETATION – Use scientific names of plants. #CWCS = Canadian Wetland Classification System/ HGM = Hydrogeomorphic System

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That are OBL, FACW, or FAC: _____ (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: <u>Total % Cover of:</u> _____ <u>Multiply by:</u> _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ^a ___ 4 - Morphological Adaptations ^a (provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ^a (Explain) ^a Indicators of hydric soil and wetland hydrology must be present, unless problematic or disturbed.
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes _____ No _____
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks: _____				

SOIL

Plot Number: _____

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

Depth (cm)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ^a	Loc ^b		
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

^aType: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ^b Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Organic Soil (A1) | ☐ Alaska Gleyed Pores (A15) ^d |
| ☐ Organic Surface (A2) | ☐ Iron Monosulfides (A18) |
| ☐ Black Organic (A3) | ☐ Sandy Mucky Mineral (S1) |
| ☐ Hydrogen Sulfide (A4) | ☐ Sandy Gleyed Matrix (S4) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Sandy Redox (S5) |
| ☐ Thick Dark Surface (A12) | ☐ Stripped Matrix (S6) |
| ☐ Alaska Gleyed (A13) ^d | ☐ Loamy Mucky Mineral (F1) |
| ☐ Alaska Redox (A14) ^d | ☐ Loamy Gleyed Matrix (F2) |

For Problematic Hydric Soils^c

- | | |
|---|--|
| ☐ Depleted Matrix (F3) | ☐ 2 cm Muck (A10) |
| ☐ Redox Dark Surface (F6) | ☐ Reduced Vertic (F18) |
| ☐ Depleted Dark Surface (F7) | ☐ Red Parent Material (F21) |
| ☐ Redox Depressions (F8) | ☐ Very Shallow Dark Surface (F22) |
| ☐ Other (Explain in Remarks) | |

^c Indicators of hydrophytic vegetation and wetland hydrology must be present, unless problematic or disturbed.

^d Indicators are only applicable for use in northwest British Columbia

Restrictive Layer (if present):

Type: _____
Depth (cm): _____

Hydric Soil Present? Yes _____ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- | | |
|--|--|
| ☐ Surface Water (A1) | ☐ Salt Crust (B11) |
| ☐ High Water Table (A2) | ☐ Aquatic Invertebrates (B13) |
| ☐ Saturation (A3) | ☐ Hydrogen Sulfide Odor (C1) |
| ☐ Water Marks (B1) | ☐ Oxidized Rhizospheres along Living Roots (C3) |
| ☐ Sediment Deposits (B2) | ☐ Presence of Reduced Iron (C4) |
| ☐ Drift Deposits (B3) | ☐ Recent Iron Reduction in Tilled Soils (C6) |
| ☐ Algal Mat or Crust (B4) | ☐ Other (Explain in Remarks) |
| ☐ Iron Deposits (B5) | |
| ☐ Surface Soil Cracks (B6) | |
| ☐ Inundation Visible on Aerial Imagery (B7) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | |

Secondary Indicators (2 or more required)

- | |
|--|
| ☐ Water-Stained Leaves (B9) |
| ☐ Drainage Patterns (B10) |
| ☐ Dry-Season Water Table (C2) |
| ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Stunted or Stressed Plants (D1) |
| ☐ Geomorphic Position (D2) |
| ☐ Shallow Aquitard (D3) |
| ☐ FAC-Neutral Test (D5) |
| ☐ Raised Ant Mounds (D6) |
| ☐ Frost Heave Hummocks (D7) |

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (cm): _____
Water Table Present? Yes _____ No _____ Depth (cm): _____
Saturation Present? Yes _____ No _____ Depth (cm): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No _____

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

Remarks:

VEGETATION Continued – Use scientific names of plants.

Plot Number: _____

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
		=Total Cover	
<u>Sapling/Shrub Stratum</u>			
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
		=Total Cover	
<u>Herb Stratum</u>			
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
15. _____	_____	_____	_____
16. _____	_____	_____	_____
17. _____	_____	_____	_____
18. _____	_____	_____	_____
19. _____	_____	_____	_____
20. _____	_____	_____	_____
21. _____	_____	_____	_____
22. _____	_____	_____	_____
23. _____	_____	_____	_____
		=Total Cover	
<u>Woody Vine Stratum</u>			
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
		=Total Cover	

***Fields consistent with LMH25:**

Latitude/Longitude: degrees, minutes, decimal seconds (Section 10).

Mesoslope Position. Indicate the position of the plot relative to the localized catchment area. CR (crest); UP (upper Slope), MD (Middle slope), LW (Lower slope), TO (Toe), DP (Depression), LV (Level), GU (Gully) (Section 31).

Surface Shape. Notes the general surface shape as CC (Concave), CV (Convex) or ST (Straight) (Section 32) modifiers can be applied as appropriate according (Section 33).

Definitions of Vegetation Strata:

Tree – Woody plants 8 cm or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub – Woody plants less than 8 cm or more in DBH, regardless of height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size.

Woody Vine – All woody vines, regardless of height.

Recommended Plot Size (Record on Page 1)

Tree – 10 m radius

Sapling/Shrub – 5 m radius

Herb – 1 m x 1 m quadrat

Woody Vine – 5 m radius

Remarks: