

APPENDIX A: HISTORICAL AERIAL PHOTOGRAPHS



Rithet's Bog 1926. Scale: 1:12000. Source: UVIC Aerial Photography Collection, McPherson Library



Rithet's Bog 1954. Scale: 1:10000. Source: Government of B.C. Air Photo, from Golinski, 1995



Rithet's Bog 1976. Scale: 1:10000. Source: Government of B.C. Air Photo, from Golinski, 1995



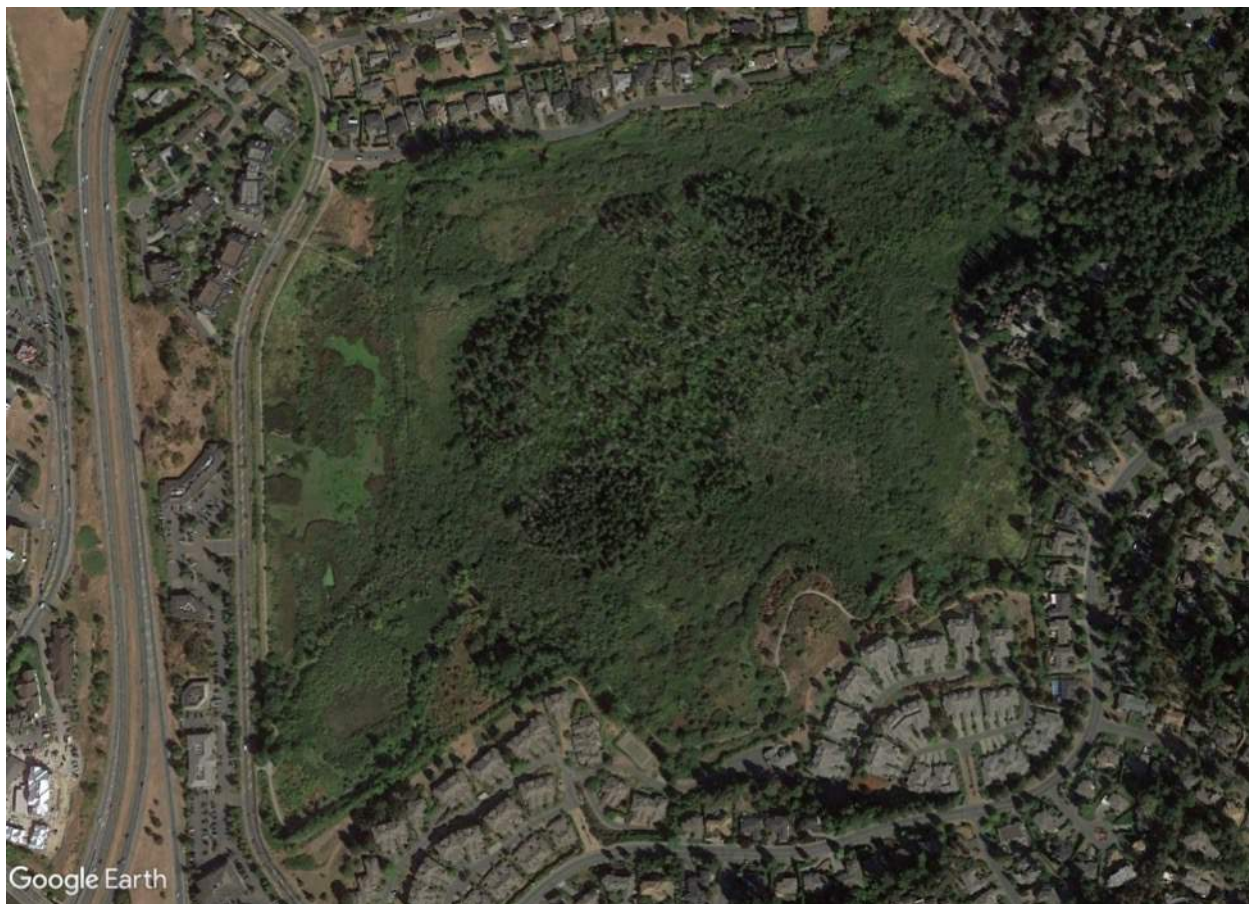
Rithet's Bog 1992. Scale: 1:10000. Source: Government of B.C. Air Photo, from Golinski, 1995



Rithet's Bog 1997. Scale: 1:8000. Source: Saanich Data Catalogue, 2018



Rithet's Bog 2005. Scale: 1:8000. Source: Saanich Data Catalogue, 2018



Rithet's Bog 2016. Scale: 1:4000. Source: Google Earth 2018

APPENDIX B: TEM Ground Inspection Forms

Time: 206 pm
Temp: 27°C
Sunny

BRITISH COLUMBIA		GROUND INSPECTION FORM			
G ☒ V ☐	PHOTO (2)	X:	Y:	DATE (3)	17/06/2018
PROJECT ID. (4) Rithet's Bog		SURV. (5) S. Voicescu			
MAP SHEET (6) N/A	PLOT # (7)	POLY. # (8)			
UTM ZONE (9) 10U	LAT. / NORTH (10) 48.48567	LONG. / EAST (11) 123.37719			
ASPECT (12) 136° S	ELEVATION (13) 20m	m			
SLOPE (14) ~2°	SMR (15)	SNR (16)			
MESO SLOPE POSITION (17)	☐ Crest ☐ Upper slope	☐ Mid slope ☐ Lower slope ☐ Toe	☐ Depression ☒ Level		
DRAINAGE - MINERAL SOILS (18)	☐ Very rapidly ☐ Rapidly	☐ Well ☐ Mod. well ☐ Imperfectly	☐ Poorly ☐ Very poorly		
MOISTURE SUBCLASSES - ORGANIC SOILS (19)	☐ Aqueous ☐ Peraquic	☐ Aquic ☐ Subaquic	☐ Perhumid ☐ Humid		
MINERAL SOIL TEXTURE (20)	☐ Sandy (LS,S) ☐ Loamy (SL,L,SCL,FSL)	☐ Silty (SIL,ST) ☐ Clayey (SICL,CL,SC,SIC,C)			
ORGANIC SOIL TEXTURE (21)	☐ Fibric ☐ Mesic ☐ Humic	SURF. ORGANIC HORIZON THICKNESS (22) ☐ 0-40 cm ☐ > 40 cm			
HUMUS FORM (23)	☐ Mor ☐ Moder ☐ Mull	ROOT RESTRICTING LAYER (24) Depth _____ cm Type _____			
COARSE FRAGMENT CONTENT (25) ☐ < 20% ☐ 20-35% ☐ 35-70% ☐ > 70%					
TERRAIN		COMPONENT: (26) TC1 ☐ TC2 ☐ TC3 ☐			
TERRAIN TEXTURE (27)	SURFICIAL MATERIAL (28)	SURFACE EXPRESSION (29)	GEOMORPH PROCESS (30)		
1	1	1	1		
2	2	2	2		
ECOSYSTEM		COMPONENT: (31) EC1 ☒ EC2 ☐ EC3 ☐			
BGC UNIT (32)	CDFmm	ECOSECTION (33) VAL			
SITE SERIES (34)	CS?	SITE MODIFIERS (35)			
STRUCTURAL STAGE (36)	2b	CROWN CLOSURE (37) 0 %			
ECOSYSTEM POLYGON SUMMARY			TERRAIN POLYGON SUMMARY		
	%	SS	SM	ST	Classification
EC1	100	CS		2b	TC1
EC2		(38)			TC2
EC3					TC3

* point 276 on GPS ^{3*} CS2b
could also be Wp012b → Water seep-leaked sedge
(for cons/meadows)

DOMINANT / INDICATOR PLANT SPECIES

TOTAL % (44) A: Trees 0% B: Shrubs 20% C: Herbs 80% D: Moss/Bryophytes 0%

L	SPECIES	%	L	SPECIES	%	L	SPECIES	%
(40)	(41)	(42)	C	common velvet grass	2			
B	Nootka rose	15	C	fireweed	5			
B	English hawthorn	3	C	red fescue	10			
B	Sweet briar rose	2	C	unknown grasses	60			
C	creeping buttercup	20		staked hairgrass?				
C	Canada thistle	5	C	Oxeye daisy	<1			
C	vetch	3						
C	reed canary grass	5						
C	small bedstraw	1						
C	curled dock	2						
C	sweet vernal grass	3						
C	beaked sedge	2						

COMPLETE ☒ (43) PARTIAL ☐

Tree Mensuration (45)

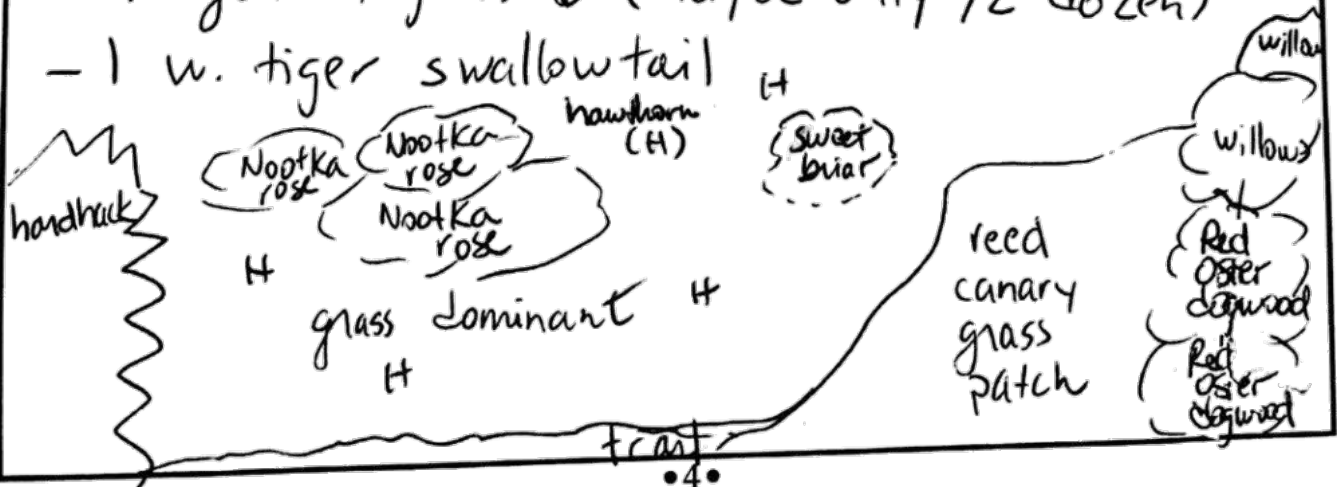
Spp.	DBH	Ht. Calculation to DBH						Ht. to DBH	Total HT	BH Age	Path Y/N
		Top	Bot	SD	SL	HD	HT				

NOTES (site diagram, exposure, gleying, etc.)

(46)

- To ID: small butterfly (winglet) orange/tan, fast flyer, feeds on vetch, dark body

- many lorquin's admiral seen on the way to wet meadow (~ dozen)
- 1st gen winglets ↓ (maybe only 1/2 dozen)
- 1 w. tiger swallowtail



Time: 4:17pm
temp: 29°C
Sunny

* 275
GPS
ID

BRITISH COLUMBIA		GROUND INSPECTION FORM					
G ☒ V ☐	PHOTO (2)	X: \	Y: \	DATE (3) 17/06/2018			
PROJECT ID. (4) Rilhett's Bog		SURV. (5) S. Voiresin					
MAP SHEET (6)		PLOT # (7) 2		POLY. # (8) 1			
UTM ZONE (9) 10u		LAT. / NORTH (10) 48.4813		LONG. / EAST (11) -123.37685			
ASPECT (12) 65° E		ELEVATION (13) 19 m					
SLOPE (14) 15°, 4%		SMR (15) 5		SNR (16) VR			
MESO SLOPE POSTION (17)		☐ Crest ☐ Upper slope ☐ Mid slope ☐ Lower slope ☐ Toe ☐ Depression ☒ Level					
DRAINAGE - MINERAL SOILS (18)		☐ Very rapidly ☐ Rapidly ☐ Well ☐ Mod. well ☐ Imperfectly ☒ Poorly ☐ Very poorly					
MOISTURE SUBCLASSES - ORGANIC SOILS (19)		☐ Aqueous ☐ Peraquic ☐ Aquic ☐ Subaquic ☐ Perhumid ☐ Humid					
MINERAL SOIL TEXTURE (20)		☐ Sandy (LS,S) ☐ Loamy (SL,L,SCL,FSL) ☐ Silty (SIL,Si) ☒ Clayey (SiCL,CL,SC,SiC,C)					
ORGANIC SOIL TEXTURE (21)		SURF. ORGANIC HORIZON THICKNESS (22)					
☐ Fibric ☐ Mesic ☐ Humic		☒ 0-40 cm ☐ > 40 cm					
HUMUS FORM (23)		ROOT RESTRICTING LAYER (24)					
☐ Mor ☐ Moder ☒ Mull		Depth <u>none</u> cm Type					
COARSE FRAGMENT CONTENT (25)							
☒ < 20% ☐ 20-35% ☐ 35-70% ☐ > 70%							
TERRAIN		COMPONENT: (26) TC1 ☒ TC2 ☐ TC3 ☐					
TERRAIN TEXTURE (27)	SURFICIAL MATERIAL (28)	SURFACE EXPRESSION (29)	GEOMORPH PROCESS (30)				
1 C	1 O	1 P	1				
2	2	2	2				
ECOSYSTEM		COMPONENT: (31) EC1 ☐ EC2 ☐ EC3 ☐					
BGC UNIT (32) CDFmm		ECOSECTION (33) NA					
SITE SERIES (34) RF?		SITE MODIFIERS (35) f					
STRUCTURAL STAGE (36) 3		CROWN CLOSURE (37) 0 %					
ECOSYSTEM POLYGON SUMMARY			TERRAIN POLYGON SUMMARY				
	%	SS	SM	ST		%	Classification
EC1	100	RF	f	3	TC1	100	cOp
EC2		(38)			TC2		(39)
EC3					TC3		

RF 3

DOMINANT / INDICATOR PLANT SPECIES

TOTAL % (44) A: Trees 0% B: Shrubs 50% C: Herbs 50% D: Bryophytes (0%)

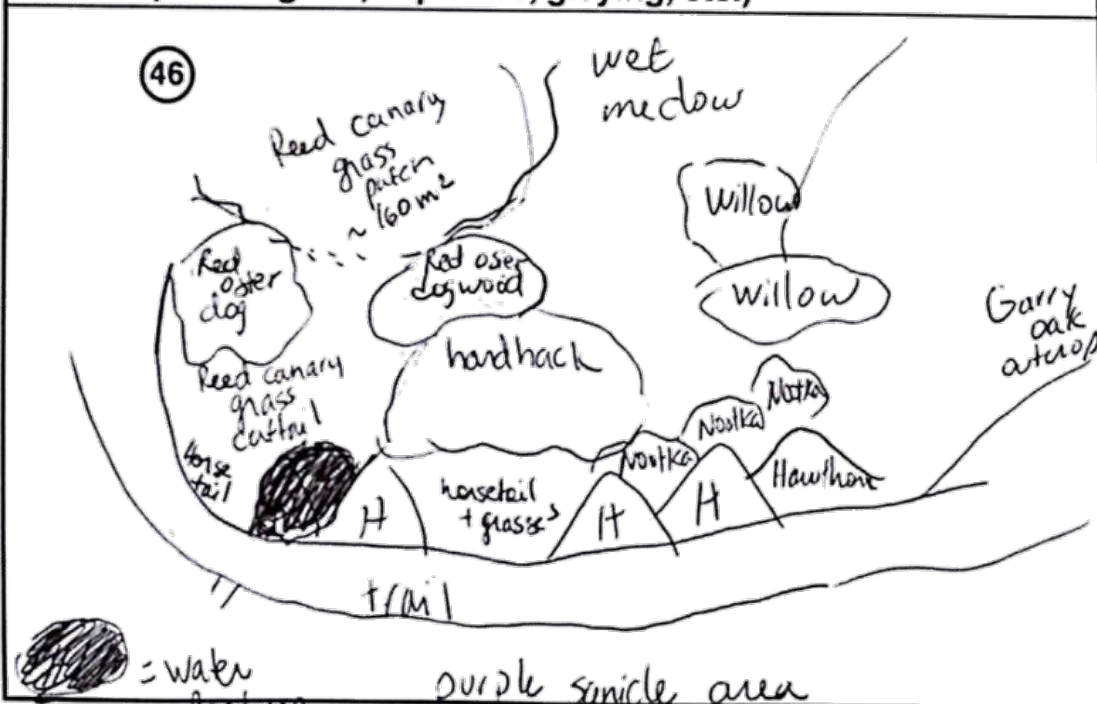
L	SPECIES	%	L	SPECIES	%	L	SPECIES	%
(40)	(41)	(42)	C	Common velvet grass	1			
3	Pacific willow	40	C	red fescue	1			
B	Scofield's willow	5	C	unknown grass	15			
B	English hawthorn	10	C	creeping buttercup	2			
B	Nootka rose	5	C	vetch	<1			
B	hardhack	10	C	fireweed	2			
C	Reed canary grass	20						
C	cattail	1						
C	coast silverweed	5						
B	Red osier dogwood	10						
C	Horse tail	10						
C	Sweet vernal grass	1						

COMPLETE ☒ (43) PARTIAL ☐

Tree Mensuration (45)

Spp.	DBH	Ht. Calculation to DBH						Ht. to DBH	Total HT	BH Age	Path Y/N
		Top	Bot	SD	SL	HD	HT				

NOTES (site diagram, exposure, gleying, etc.)



APPENDIX C: BUTTERFLIES OF RITHET'S BOG



LEGEND: A. Vancouver Island Ringlet (*Coenonympha tullia insulana*). B. Cabbage White (*Pieris rapae*). C. Western Tiger Swallowtail (*Papilio rutulus*). D. Western Spring Azure (*Celastrina echo*). E. European Skipper (*Thymelicus lineola*). F. Pine White (*Neophasia menapia*). G. Mourning Cloak (*Nymphalis antiopa*). H. Lorquin's Admiral (*Limenitis lorquini*). I. Woodland Skipper (*Ochlodes sylvanoides*).

Photo credits: A, B, D, E, H and I: Sonia Voicescu. C: Annie Pang. F: Gordon Hart. G: Aziza Cooper.