BRITISH COLUMBIA MARBLED MURRELET FOREST SURVEY FORM

Survey Visit to Protocol (**Y** or **N**, initials): ☐☐

Total Detections: _____

Species of Concern (circle one, details on last pg.): **Y** or **N**

Month _____ Day _____ Year _____

Area Name: _____ Site Name / Number: _____ Station Number: _____

Sta. Location - UTM zone: _____ E (x) coordinate: _____ N (y) coordinate: _____ Source: _____ Datum: _____ FOM:____

Observer (s) Name: _____ Initials:_____ Affiliation: _____ Phone: **(**____**)**_____

Station Elevation: _____ **Ft** / **M** Position on Slope (circle one): **B**ottom/plain, **L**ower 1/3, **M**id 1/3, **U**pper 1/3, **R**idgetop

Station Placement (circle one): **In**side, **Out**side

Distance from Survey Site Boundary: _____ Units of Measure for **ALL** Horizontal Distances: _____

Station Canopy Cover (circle one): **1** = 0 to 25%, **2** = 26 to 50%, **3** = 51 to 75%, **4** = 76 to 100%

ENVIRONMENTAL CONDITIONS:

Official **Sunrise** Time: _____ **Source**: _____ **Begin Survey** Time: _____ **End Survey** Time: _____

Temperature at Sunrise: _____ ° Temperature at End of Survey: _____ ° (circle one) **C** or **F** revised: 2 / 2000

TIME				VERTICAL VIEWING			HORIZ. VIS. TO 100 M	AUDIBILITY TO 200 M	PRECIPITATION			WIND	NOISE	NOTES
				CEILING	CLOUD COVER	VISIBILITY TO 2 CANOPY			RAIN	FOG	OTHER			

Ceiling: **UL** = Unlimited (clear), **HI** = >2.0 canopy height, **MID** = >1.25 to ≤ 2.0 canopy height, **LO** = ≤1.25 canopy height, **U** = Unknown.
Cloud Cover: **0** = 0%, **1** = 33%, **2** = 66%, **3** = 100%.
Vertical Visibility: **N** = Impaired (detections may be missed due to conditions), **Y** = Unimpaired (conditions allow for reliable detection), **U** = Unknown.
Horizontal Visibility: **N** = Impaired (detections may be missed due to conditions), **Y** = Unimpaired (conditions allow for reliable detection), **U** = Unknown.
Audibility: **N** = Impaired (detections may be missed due to conditions), **Y** = Unimpaired (conditions allow for reliable detection).
Precipitation - Rain & Fog: **N** = None, **L** = Light, **M** = Moderate, **H** = Heavy. **Other:** **H** = Hail, **S** = Snow. Indicate intensity using same codes for rain & fog.
Wind: **0** = <1 mph (calm), **1** = 1-3 mph (leaves barely move), **2** = 4-7 mph (leaves rustle, sm. twigs move), **3** = 8-12 mph (leaves & sm. twigs in constant motion), **4** = 13-18 mph (sm. branches move), **5** = 19-24 mph (lg. branches & sm. trees start to sway), **6** = 25-31 mph (lg. branches in constant motion), **7** = 32-38 mph (whole trees move), **8** = 39-46 mph (twigs & sm. branches break).
Noise: **N** = None, **A** = Aircraft, **B** = Bird song/calls, **C** = Creek/water drainage, **M** = Machinery, **P** = Rain/hail, **T** = Tree drip, **V** = Vehicle, **W** = Wind, **O** = Other (explain in Notes).

Occurrence No. _____ Data Point No. _____ Sequence No. _____ Reference No. _____

Quad. Code _____ Photo Code _____ General Location _____

Data Entry Initials _____ Data Entry Date _____ Data QC Initials _____ Data QC Date _____

Protocol Review Initials _____ Review Date _____ Highest Biological Status _____

** AGENCY DATABASE USE ONLY **

BRITISH COLUMBIA MARBLED MURRELET FOREST SURVEY FORM

Detections - This Side Page Total: _____ Pg. ____of ____

Area Name: _____

Observer (s) Initials: _____ Month _____ Day _____ Year _____ Site Name / No: _____

Data Reference Number: _____ Units of Measure (circle one): **U.S.** / **Metric** Station Number: _____

SURVEY ACYIVITY: **Note Significant Weather Changes on Page 1** revised: 2 / 2000

STATUS - I / O	DETECTION #	DETECTON TIME	INITIAL DETECTION DIRECTION	TYPE	AUDITORY					# BIRDS SEEN	BEHAVIOR	INITIAL FLIGHT DIRECTION	BIRD HEIGHT SEEN Canopy= 1.0	CLOSEST DIST. TO BIRDS SEEN ( ) units	DEPART FLIGHT DIRECTION	FINAL DETECTION DIRECTION	NOTES Heard Only Dist. To Birds (L= Loud, M= Moderate, F= Faint)
					VOCAL SERIES				OTHER								
					Start	End	#	OL	W / J								

TYPE: **H** = Heard Only (no visual), **S** = Seen Only (silent), **B** = Both Seen and Heard.

AUDITORY - Vocal Series (Vocalizations)**:** **K** = KEER calls, **G** = Groan (alternate) calls, **O** = Whistle or Soft Que calls, **U** = Unknown, **---** = None or N/A. Indicate the vocal type heard at both the start and end if calls grade between different types during the detection. Indicate the number heard **1-5** or **M** = Multiple. **OL** = Overlapping Vocalizations (**Y** or **N**).

AUDITORY - Other (Non-Vocal Sounds)**:** **W** = Wing Sound, **J** = Jet Sound, **---** = None or N/A. If both are heard write W / J.

BEHAVIOR: F = Flight Over Canopy, **C** = Circle Over Canopy, **T** = Fly-Through At or Below Canopy (≤ 1.0), **B** = Circle At or Below Canopy (≤ 1.0), **L** = Seen Landing in or Departing From a Tree, **S** = Stationary Calling (fixed-point multiple calls <100 m), **U** = Unknown. **(Check Reverse Side When Using 2-Sided Forms)**

SURVEY ACYIVITY (cont.): **Note Significant Weather Changes on Page 1** Detections - This Side Page Total: _____

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