
APPENDIX 1
Bird Point Count Survey Forms

Sky:	Wind:	MPH:	Noise:
0 Clear or a few clouds	0	<1	0 Quiet
1 Partly cloudy or variable sky	1	1 - 3	1 Some noise, but not distracting (dogs or coyotes barking/howling)
2 Cloudy or overcast	2	4 - 7	2 Significant noise that may have reduced detectability (flowing creek)
3 Fog or smoke	3	8 - 12	3 Constant noise (heavy traffic, compressor/generator, roaring creek)
4 Snow	4	13 - 18	
5 Rain	5	19 - 24	
	6	25 - 31	
	7	32 - 38	

Smoke rises vertically
 Wind direction shown by smoke drift
 Wind felt on face, leaves rustle
 Leaves and small twigs in constant motion
 Raises dust and small branches are moved
 Small trees in leaf begin to sway
 Large branches in motion
 Whole trees in motion

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- 5 Rain

Wind:

- | | |
|---|---------|
| 0 | <1 |
| 1 | 1 - 3 |
| 2 | 4 - 7 |
| 3 | 8 - 12 |
| 4 | 13 - 18 |
| 5 | 19 - 24 |
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MPH:

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BLGR								2			Sooty - Incidental - came across after survey was completed. Heard second bird in shrubs. 2 poor quality photos: P6260012&13, UTM: 09U.0474221.6143130

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|--|--|--|--|
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	6	25 - 31	
	7	32 - 38	

SPSA	1			1						
WIWA				1						
WIWR							1			

- | | | | |
|--|--|---|--|
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|--|--|---|--|

Bird Point Count Survey Form

Project Name: Avanti-Kitsault						Field Crew Names: TE/AG					
Date: 28-JUN-10		Plot #: F1		Start Time: 05:42		GPS: 09U.0476153.6143707					
Habitat Description: Meadow				Temperature: 12°C		Sky: 1	Wind: 1	Noise: 0		Comments (incidental obs., noise sources, etc.)	
0 - 3 min			3 - 5 min			> 5 min					
Species	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
DEJU			1								
VATH			2								
RCKI			1	1							
OSFL	1										
MGWA					1						
YRWA	1				1						
AMRO					1						
OCWA								1			
Incidental - 1 AMRO & 2 OSFC during walk in to site											
Date: 28-JUN-10						Plot #: F2		Start Time: 06:05		GPS: 09U.0475897.6143646	
Habitat Description: Meadow/mature forest mix				Temperature: 12°C		Sky: 1	Wind: 1	Noise: 0		Comments (incidental obs., noise sources, etc.)	
0 - 3 min			3 - 5 min			> 5 min					
Species	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
RCKI	1	1									
WIWR	1										
OSFL					1						
VATH					1						
AMRO					1						
CHSP							1				
BRCR	1										
OCWA		1									
Date: 28-JUN-10						Plot #: F3		Start Time: 06:22		GPS: 09U.0475652.6143586	
Habitat Description: Mature hemlock/fir forest				Temperature: 12°C		Sky: 1	Wind: 1	Noise: 0		Comments (incidental obs., noise sources, etc.)	
0 - 3 min			3 - 5 min			> 5 min					
Species	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
BLGR			1								
RCKI	1										
HETH	1	1									
SAVS			2								
AMRO					1						
SPSA					1						
Date: 28-JUN-10						Plot #: F4		Start Time: 06:44		GPS: 09U.0475408.6143533	
Habitat Description: Dense forest by rock bluff				Temperature: 12°C		Sky: 2	Wind: 1	Noise: 0		Comments (incidental obs., noise sources, etc.)	
0 - 3 min			3 - 5 min			> 5 min					
Species	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
RCKI			1								
HETH			1								
WIWA			1								
VATH			1								
BLGR					1						
Sooty grouse											
GRAJ											
HETH											
Incidental - while walking to the site											
Incidental - while walking to the site, both birds agitated and acting protective of nest											
Date: 28-JUN-10						Plot #: F5		Start Time: 07:14		GPS: 09U.0475750.6143454	
Habitat Description: Peak in mature forest				Temperature: 12°C		Sky: 1	Wind: 0	Noise: 1		Comments (incidental obs., noise sources, etc.)	
0 - 3 min			3 - 5 min			> 5 min					
Species	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
WIWR			1								
HETH			1								
COGO			1								
CAGO			1								
CHSP					1						
OCWA					1						

										Western toad observed on the way to this transect
										Photos: P6280003-5
										UTM: 09U.0475208.6142615

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|--|--|---|--|
| <p>Sky:</p> <ul style="list-style-type: none"> 0 Clear or a few clouds 1 Partly cloudy or variable sky 2 Cloudy or overcast 3 Fog or smoke 4 Snow 5 Rain | <p>Wind:</p> <ul style="list-style-type: none"> 0 <1 1 1 - 3 2 4 - 7 3 8 - 12 4 13 - 18 5 19 - 24 6 25 - 31 7 32 - 38 | <p>MPH:</p> <ul style="list-style-type: none"> <1 Smoke rises vertically 1 - 3 Wind direction shown by smoke drift 4 - 7 Wind felt on face, leaves rustle 8 - 12 Leaves and small twigs in constant motion 13 - 18 Raises dust and small branches are moved 19 - 24 Small trees in leaf begin to sway 25 - 31 Large branches in motion 32 - 38 Whole trees in motion | <p>Noise:</p> <ul style="list-style-type: none"> 0 Quiet 1 Some noise, but not distracting (dogs or coyotes barking/howling) 2 Significant noise that may have reduced detectability (flowing creek) 3 Constant noise (heavy traffic, compressor/generator, roaring creek) |
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- 4 Snow
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Wind:

- | | |
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| 0 | <1 |
| 1 | 1 - 3 |
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Bird Point Count Survey Form

Project Name: Avanti-Kitsault							Field Crew Names: TE/AG				
Date: 28-JUN-10		Plot #: H1			Start Time: 09:49		GPS: 09U.0474841.6142836				
Habitat Description: On a hill above a lake					Temperature: 15°C		Sky: 1	Wind: 1	Noise: 1	Comments (incidental obs., noise sources, etc.)	
Species	0 - 3 min			3 - 5 min			> 5 min				
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
DEJU			1							Heli in area	
MGWA			1								
GU spp.			2								
BOGU			1	1							
CAGO	2									On the lake	
CHSP			1								
HETH			1								
BRCR				1							
WIWA					1						
VATH							1				
OCWA								1			
YWAR					1						
										Small mammal observed swimming in the lake	
Date: 28-JUN-10							Plot #: H2				
Habitat Description: Shrubby bluff in mature forest							Temperature: 15°C		Sky: 2	Wind: 1	Noise: 1
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
DEJU	2										
HETH	1		1								
WIWA	1										
MGWA			1								
BLGR			1							Sooty grouse	
Date: 28-JUN-10							Plot #: H3				
Habitat Description: Mature hemlock forest, meadow below							Temperature: 15°C		Sky: 5	Wind: 1	Noise: 2
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
VATH			1								Began raining during survey, decreasing detection
DEJU			1								
TOWA					1						
Date: 28-JUN-10							Plot #: H4				
Habitat Description: Steep treed rock bluff							Temperature: 15°C		Sky: 1	Wind: 1	Noise: 1
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
WIWR	2										Heli in the distance
PISI			1							Visual observation	
VATH	1		1								
BOGU				1						Visual observation	
Date: 28-JUN-10							Plot #: H5				
Habitat Description: Young hemlock/fir at edge of cleared area							Temperature: 15°C		Sky: 1	Wind: 1	Noise: 1
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
DEJU			2								Close to camp, generator noise in the distance
VATH			2								
WIWR			1								
FOSP			1								
PISI					1						
CHSP						1					

BARS					2						Flying/nesting at camp buildings

- | | | | |
|--|--|--|--|
| <p>Sky:</p> <ul style="list-style-type: none"> 0 Clear or a few clouds 1 Partly cloudy or variable sky 2 Cloudy or overcast 3 Fog or smoke 4 Snow 5 Rain | <p>Wind:</p> <ul style="list-style-type: none"> 0 <1 1 1 - 3 2 4 - 7 3 8 - 12 4 13 - 18 5 19 - 24 6 25 - 31 7 32 - 38 | <p>MPH:</p> <ul style="list-style-type: none"> Smoke rises vertically Wind direction shown by smoke drift Wind felt on face, leaves rustle Leaves and small twigs in constant motion Raises dust and small branches are moved Small trees in leaf begin to sway Large branches in motion Whole trees in motion | <p>Noise:</p> <ul style="list-style-type: none"> 0 Quiet 1 Some noise, but not distracting (dogs or coyotes barking/howling) 2 Significant noise that may have reduced detectability (flowing creek) 3 Constant noise (heavy traffic, compressor/generator, roaring creek) |
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Bird Point Count Survey Form

Project Name: Avanti-Kitsault						Field Crew Names: TE/AG					
Date: June 30, 2010		Plot #: 11		Start Time: 05:22		GPS: 09U.0473657.6143767					
Habitat Description: Shrubby alder - prev. cleared						Temperature: 2°C		Sky: 3	Wind: 1	Noise: 1	
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
DEJU			5							3 were visual observations, 1 female, 2 males	
AMRO	1		1								
VATH				1							
HETH			1								
BRCR	1										
WIWR	1										
Date: June 30, 2010						Plot #: 12		Start Time: 05:45		GPS: 09U.0473791.6143979	
Habitat Description: Rolling hills, patchy meadows/wet areas						Temperature: 2°C		Sky: 3	Wind: 1	Noise: 1	
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
AMRO	1									Creek close by, light rain	
ALFL			1								
HETH	1		1								
DEJU			1								
HAWO							1				
Date: June 30, 2010						Plot #: 13		Start Time: 06:14		GPS: 09U.0473926.6144192	
Habitat Description: Patchy meadows and trees						Temperature: 3°C		Sky: 2	Wind: 1	Noise: 2	
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
HETH			1							water running everywhere from previous day's snow and rain. Several creeks and seepages affecting hearing, misting rain.	
DEJU			1	1							
OSFL										Incidental	
HETH										Incidental- visual & auditory	
BRCR										Incidental	
Date: June 30, 2010						Plot #: 14		Start Time: 06:32		GPS: 09U.0474057.6144405	
Habitat Description: Mature forest, meadows close						Temperature: 5°C		Sky: 2	Wind: 1	Noise: 1	
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
BOGU	1										
GRJA	2										
DEJU			1								
HETH				1							
Date: June 30, 2010						Plot #: 15		Start Time: 07:01		GPS: 09U.0474195.6144613	
Habitat Description: Mature forest, shrubby understory						Temperature: 5°C		Sky: 2	Wind: 1	Noise: 3	
Species	0 - 3 min			3 - 5 min			> 5 min			Comments (incidental obs., noise sources, etc.)	
	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs	< 100 m	> 100 m	fly overs		
HETH			1							Rushing creeks (2) in vicinity, water dripping off trees. Noise affecting detection	
ALFL							1				
GRJA								1			

										Frog - 09U.0474452.6144773 - near heli pick up location

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- 4 Snow
- 5 Rain

Wind:

- | | | |
|------|---|---------|
| MPH: | 0 | <1 |
| | 1 | 1 - 3 |
| | 2 | 4 - 7 |
| | 3 | 8 - 12 |
| | 4 | 13 - 18 |
| | 5 | 19 - 24 |
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26-Jun-10

UTM

- Checked for amphibians in the C-transect area:
- Some form of egg? - photo
- Photo of ponds/lakes that could support amphibians (P260014)
 - no amphibians noted during survey
 - CAGO feathers and feces noted along the perimeter 09U.0474189.6143436
- Lake northeast of Patsy Lake:
 - 4 frogs in pond north of lake, photo 09U.0476598.6144023
 - 2 frogs 09U.0476588.6144073
 - 1 frog - photos 09U.0476537.6144066
 - 1 frog - photos and video 09U.0476614.6144075
 - 1 frog 09U.0476559.6143838
 - Loon on lake, vocalizations of RCKI (#10 recorder), SASP, BLGR, OSFL
 - 3 frogs & HETH, PISI, YRWA, 2 DEJU (changed song) 09U.0476559.6143838
- 1 frog - located during bird survey; photo of the habitat 09U.0476403.6143263