

Mateo Winterscheidt New Graph Environment <u>mateo@newgraphenvironment</u> 672-998-5293

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Safety Plan - 2023-054-salmo-larl

The latest version of this pdf can be downloaded <u>here</u>.

A kml file containing the site at the end of Carney Mill Road in Salmo where we are going to carry out a snorkel survey can be downloaded <u>here</u>. Another potential survey site in Salmo can be seen on this orthomosaic map that can be accessed <u>here</u>.

Vehicles

Al and Mateo - 2013 Toyota Tundra black

Table 1: Crew members details and emergency contacts

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name	email	phone	satellite	emerg_name	emerg_email	emerg_phone	
Allan Irvine	al@newgraphenvironment.com	250- 777- 1518	allanirvine75@inreach.garmin.com	Tara Stark	tara.stark@gmail.com	250-505-9854	
Mateo Winterscheidt	matwint45@gmail.com	672- 998- 5293	807-790-7943	Felicitas Winterscheidt	fhwinterscheidt@gmail.com	519-636-5251	



Equipment Checklists

Personal Equipment Checklist	•
GPS	headlamp
Suncreen	hard hat
Bugspray	steel toed boots
Polarized glasses	clinometer
Bear Spray	field vest
phone/camera	note book
battery pack booster for phone	Extra clothes
Hat	rain gear
first aid kit personal	hand lens
Waders	GPS Case waterproof
Boots	Notebook waterproof
Ski poles	Drysuits
water	Snorkels
food	Goggles
gloves work	Fanny pack
glasses safety	_

Crew Equipment Checklist	•
Hand saw	pilon x 2
Linesman Gloves x 3	Measuring board
Backroads Mapbook	Scale
Locational maps	Permits
Background Documents	Fish ID book
radio road	Site Cards / Field Guide
Inreach	Minnow Traps
Field Safety Plan	Catfood
first aid kit level 1	Flagging
First Aid binder stocked	Laptop w/basecamp
Throw bags	GPS cable



Crew Equipment Checklist	•
polaski	Lazer level
shovel	Assessment cards fish passage
fire extinguisher backpack	UAV
fire extinguisher pressurized	Flow meter
Battery booster	ATV
Compressor 12V	bucket rigid x 2
Rubber boots (no-slip soles)	bucket foldable
Small BT Speaker (for bears)	clove oil kit w/ instructions
Oakton Multimeter	gloves leather
Backpack Electrofisher	sharpies
stop nets x 4	ATV gas
salt blocks	ATV lock
loose salt	UAV battery charger
dip nets x 2	wader disinfectant kit
tape measure hand	GPS batteries
tape measure eslon	ATV helmets

Nearest Hospitals





Figure 1: Kootenay Lake Hospital - 3 View St, Nelson, BC V1L 2V1 - 250-352-3111



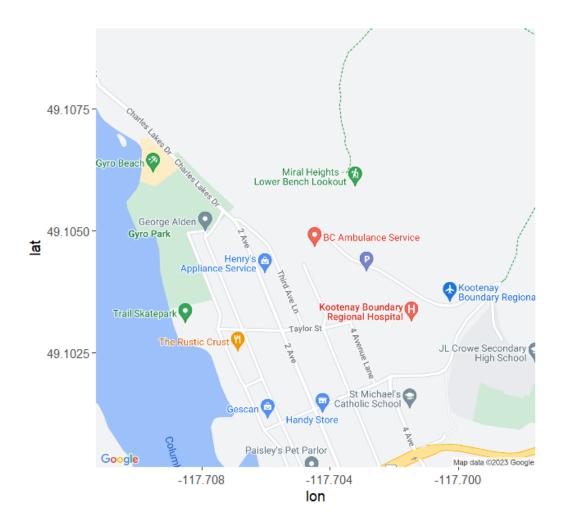


Figure 2: Kootenay Boundary Regional Hospital - 1200 Hospital Bench, Trail, BC V1R 4M1 - 250-368-3311

Field Plan

Field work methods will generally follow procedures in:

- fish passage assessments (MoE 2011)
- habitat confirmations (Fish Passage Technical Working Group 2011).

Presence/absence of fish, species composition/density and distribution limits can be useful for prioritizing which crossings are a best fit for fish passage restoration and help inform follow up



monitoring so electrofishing and minnowtrapping may be conducted. Standard Fish and Fish Habitat Inventory Standard Field Form <u>site cards</u> are used to gather habitat data. Field guide is <u>here</u>

We have PIT tagging equipment so we could consider <u>tagging</u> fish captured at electrofishing sites to help us better understand population sizes and fish movement upstream and downstream of sites over the years.

We are running digital field form tests using a product called <u>Mergin Maps</u> which syncs with QGIS. Crews can access projects with a free account. Please send me your usernames and we can begin to share projects/forms.

A guide to freshwater fish id such as McPhail and Carveth (1993) can be useful and can be downloaded here.

Check In Procedures

Call, text or inreach Tara Stark (2505059854) each morning to share the plan for the day (i.e. name of roads and sites). Check in time is before 7 pm each evening although we regularly check in throughout the day (ex. at arrival to site, 1pm and 4pm) on the inreach or by text and report position/provide updates.

Procedures for Failed Check-In - for Check in person

Procedures are summarized in the following Figure. If phone call or inReach check-in is not received by 7pm send text to inreach units, call or text cell phones of field crew members. If no response please call accommodations then personal emergency contacts to see if they have heard anything. Wait 1 hour and text inreach, text or call cell phones and personal emergency contacts and accomodations again. Repeat after 2 hours (9 pm) - if no response then notify the RCMP of a missing persons in field.



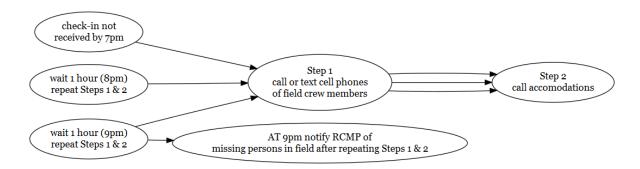


Figure 3: Procedures for failed check-in

References

Fish Passage Technical Working Group. 2011. "A Checklist for Fish Habitat Confirmation Prior to the Rehabilitation Fo a Stream Crossing." https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/land-based-investment/forests-for-tomorrow/checklist-for-fish-habitat-confirmation-201112.pdf.

McPhail, J. D., and R Carveth. 1993. "Field Key to the Freshwater Fishes of British Columbia." https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field-key to freshwater fishes of bc field size water resistant version.pdf.

MoE. 2011. "Field Assessment for Determining Fish Passage Status of Closed Bottom Structures." BC Ministry of Environment (MoE). https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/land-based-investment/forests-for-tomorrow/field-assessment-for-determining-fish-passage-status-of-cbs.pdf.