

Al Irvine
New Graph Environment
al@newgraphenvironment
250-777-1518

Date: 2023-08-21

Safety Plan - 2022-049-sern-skeena-fish-passage

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

A zip file which includes kml (google earth) and gpx (garmin) files of the sites to be potentially assessed can be downloaded <u>here</u>. Georeferenced pdf maps can be accessed and downloaded <u>here for Bulkley and Morice</u>, <u>here for Kispiox</u> and <u>here for the Copper</u>.

A summary of sites to be potentially assessed is included as Table $\underline{2}$. The process to shortlist these sites is documented <u>here</u> with a password provided in the email when this plan was originally forwarded. If you require the password again please email <u>al@newgraphenvironment.com</u>.

Accomodations

AI - 2013 Toyota Tundra black w/flatdeck and yellow can-am quad:

- Silverthorne RV park is located between Finning and the Sullivan Chevy dealership on the
 west side of town. The address is 1700 highway 16 but you could also type in Alix place
 which should bring you to the driveway as well. Contact Lance 1 604 556 9903 email:
 399hflfibdi8v4u8b70ax17dv3oy@reply.airbnb.com
- 595 Poplar Park Rd, Kitimat-Stikine B, BC V0J 1Y0 Carol 250-842-8794
- QRHW JX6 Smithers, British Columbia 54.779045, -127.152596

Mateo - 2007 Toyota Tacoma - gold with canopy:

Silverthorne RV park is located between Finning and the Sullivan Chevy dealership on the
west side of town. The address is 1700 highway 16 but you could also type in Alix place
which should bring you to the driveway as well. Contact Lance - 1 604 556 9903 - email:
399hflfibdi8v4u8b70ax17dv3oy@reply.airbnb.com



- 4685-4637 13 Ave, New Hazelton, BC V0J 2J0 Carol 250-842-8794
- 7523 Lake Kathlyn Rd, Smithers, BC V0J 2N2 54.830952, -127.212028

Table 1: Crew members details and emergency contacts

| 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 |
| Dallas Nikal | dnikal@nicoridge.com | 250- 877- 3892 | _ | alex nikal | Anikal@nicoridge.com | 250-877-2873 |
| Vern Joseph | vernon.joseph@wetsuweten.com | 250- 842- 8204 | truck radio equiped to call out | Mike Risdale | mike.ridsdale@wetsuweten.com | 778-210-0310 |
| Tiesha Pierre | pierretieasha@icloud.com | 250- 877- 0849 | truck radio equiped to call out | Mike Risdale | mike.ridsdale@wetsuweten.com | 778-210-0310 |
| Mateo Winterscheidt | matwint45@gmail.com | 672- 998- 5293 | 807-790-9843 | Felicitas Winterscheidt | fhwinterscheidt@gmail.com | 519-636-5251 |
| Jesse Olson | jesse.olson@gitxsanbusiness.com | _ | - | _ | - | _ |
| Austin Green | austin21750@gmail.com | - | - | _ | _ | _ |



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: Houston Health Centre - 3202 14 St, Houston, BC V0J 1Z0 - 250-845-2294

Houston Health Centre - 3202 14 St, Houston, BC V0J 1Z0 - 250-845-2294





Figure 2: my_caption

(Smithers) Bulkley Valley District Hospital - 3950 8 Ave, Smithers, BC V0J 2N0 - 250-847-2611



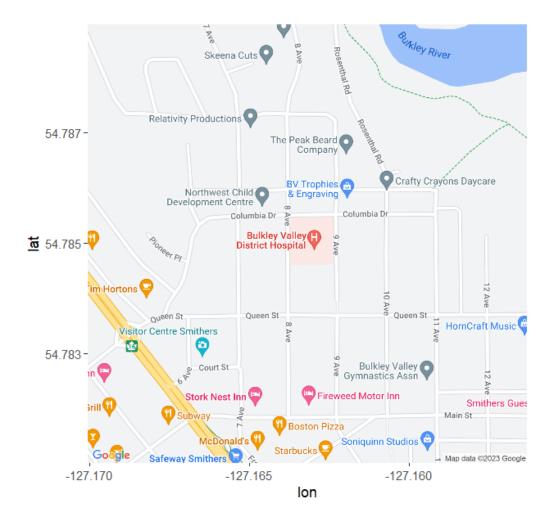


Figure 3: my_caption

Wrinch Memorial Hospital - Hazelton - 2510 Hwy 62, Hazelton, BC V0J 1Y0 - 250-842-5211

Field Plan

Field work methods will result in products feeding reporting formats such as <u>here</u> for 2020 and <u>here</u> for 2021. Still picking away at 2021 and just updating version IDs as I get through it. and will generally follow procedures in:

- fish passage assessments (MoE 2011)
- <u>habitat confirmations</u> (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 I 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.



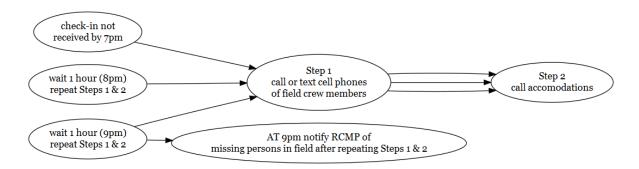


Figure 4: Procedures for failed check-in

Table 2: Potential sample locations.

| | | | idb | ic 2. i dicitial sample locations. |
|------|-----------------------|-----------|----------|--|
| id | Stream | long | lat | comments |
| 3054 | Johnny David Creek | -126.4478 | 54.59474 | Sampling could provide insight into how high salmon acsend in this watershed. |
| 8414 | Clore | -128.0377 | 54.43099 | Modelled 11% gradient upstream for 500m. close to Clore River so potential high values. |
| 8454 | Trib to Copper | -127.8154 | 54.80895 | BT and DV confirmed. Two SFC priority sites upstream too. |
| 8455 | Trib to Copper | -127.8114 | 54.81153 | SFC ranked as high priority. BT and DV confirmed. |
| 8465 | Trib to Copper | -127.7293 | 54.82940 | Fish captured downstream. Smaller potential habitat gain. |
| 8478 | Trib to Copper | -127.5999 | 54.76787 | DV known kupstream at cascade. Small steeper habitat. |
| 8511 | Trib to Copper | -127.5744 | 54.82840 | Small watershed. Close to larger stream with salmon though so may have some decent hab values. |
| 8518 | Trib to Copper | -127.3677 | 54.76332 | Fish sampling already conducted but habitat confirmation may be helpful. |



| id | Stream | long | lat | comments |
|--------|---------------------------------|-----------|----------|---|
| 8525 | Trib to Copper | -127.7396 | 54.81270 | Smaller stream with DV upstream. Outlet drop. |
| 8527 | Trib to Copper | -127.7213 | 54.80815 | DV confirmed upstream and SFC report indicates large outlet drop. Smaller stream though. |
| 8530 | Trib to Copper | -127.7129 | 54.80518 | Duplicate. Matched to wrong modelled crossing so corrected in bcfishpass. |
| 8532 | Trib to Copper | -127.7007 | 54.81185 | Habitat confirmation would be helpful. Fish confirmed here. |
| 8543 | Trib to Copper | -127.5671 | 54.78977 | Just slightly highe than steelhead model criteria. Close to McDonell Lake with fish upstream |
| 8545 | Trib to Copper | -127.6451 | 54.79016 | RB confirmed upstream. SFC recomends habitat assessment |
| 8547 | Trib to Copper | -127.6004 | 54.79309 | CT (and potentially RB) confirmed. Small lake mapped upstream. |
| 8742 | - | -127.3084 | 54.04645 | Remediated |
| 57793 | Vallee Creek | -126.8141 | 54.52438 | - |
| 57978 | Tributary to Trout Creek | -127.4822 | 54.93291 | - |
| 58067 | Tributary to Gramophone Creek | -127.2858 | 54.97087 | - |
| 58159 | McDowell Creek | -127.0204 | 54.67521 | Restoration likely forthcoming so sampling could inform monitoring program. |
| 58242 | Kathlyn Creek | -127.1811 | 54.79231 | - |
| 123377 | Thompson Creek | -126.8090 | 54.57223 | Would be good to get baseline conditions for species composition and abundance. |
| 123392 | Lemieux Creek | -126.8540 | 54.62160 | - |
| 123393 | Lemieux Creek | -126.8549 | 54.62081 | - |
| 123426 | Robin Creek | -126.8782 | 54.63903 | - |
| 123697 | Tributary to Driftwood Creek | -126.9875 | 54.85582 | - |
| 123699 | Tributary to Driftwood Creek | -127.0021 | 54.84796 | - |
| 123794 | Tributary to Blunt Creek | -127.1806 | 55.09398 | Sampling would provide insight into salmon use but unliley to have time. |
| 123795 | Tributary to Blunt Creek | -127.1855 | 55.09473 | Sampling could provide insight into salmon use but time limited so unlikely to happen this year. |
| 124500 | Helps Creek | -127.0228 | 54.65954 | Species compositionupstream and downstream could be insighful for prioritization and baseline if Telkwa Coal helps move this one ahead. |
| 124504 | Coffin Creek | -126.9195 | 54.62079 | - |
| 195288 | Gibson Creek | -126.8188 | 54.59190 | _ |
| 195290 | Gibson Creek | -126.8328 | 54.59318 | - |
| 195559 | Goathorn Creek | -127.1408 | 54.62009 | _ |
| 195943 | Stock Creek | -126.7571 | 54.44226 | - |
| 195944 | Tributary to Stock Creek | -126.7495 | 54.44676 | - |



| id | Stream | long | lat | comments |
|--------|-------------------------------|-----------|----------|--|
| 197360 | Riddeck Creek | -126.7093 | 54.05795 | Prov engineers may want baseline monitoring data. |
| 197365 | Tributary to Owen Creek | -126.8005 | 54.15719 | Flow looks good in photos. |
| 197379 | Unnamed | -126.8398 | 54.18209 | Would be good to know what fish are here. Good site for tagging? |
| 197640 | Tributary to Buck Creek | -126.6322 | 54.23614 | Design in progress so sampling could inform monitoring program. Unlikley to have time for this this year though. |
| 197653 | Perow Creek | -126.4428 | 54.51824 | - |
| 197658 | Byman Creek | -126.4210 | 54.51926 | Not likely to get here due to timeing constraints. |
| 197663 | Johnny David Creek | -126.3700 | 54.52177 | Backwatering was completed anumber of years ago so samping could inform long term monitoring. |
| 197668 | Coffin Creek | -126.9193 | 54.62098 | |
| 197926 | Tributary to Morice River | -127.3659 | 54.19188 | At Gidimt'en Camp. Maybe best left for another time. |
| 197951 | Tributatry to Morice River | -127.1586 | 54.23138 | Large lake headed stream with fish observed. |
| 197954 | Tributary to Morice River | -126.9966 | 54.22716 | Fish upstream. Good flow. Ford downstream. |
| 197962 | Peacock Creek | -126.7918 | 54.36065 | Site remediated. Long term monitoring required but could wait another year as work was conducted late last summer and we might expect CO moving in this fall |
| 197967 | Taman Creek | -126.0352 | 54.40227 | Crossing remediated so samling could help inform long term monitoring. |
| 197974 | Watson Creek | -126.2159 | 54.47603 | - |
| 197975 | Ailport Creek | -126.2090 | 54.47578 | Should a remediation plan come together sampling could help infrom long term monitoring. Good candidate for riparian rencing as well as culvert replacement. |
| 198008 | Tributary to Nanika River | -127.3761 | 54.01832 | Site should be reassessed as we surveyed the wrong upstream channel in 2021. |
| 198016 | Tributary to Thautil River | -127.3373 | 54.32459 | Hab con conducted. Species presence would be insightful. |
| 198022 | Tributary to Tagit Creek | -127.2404 | 54.22487 | Small stream with likley beaver activity upstream. Fish points upstream. Upstream culvert has note sof good flow and fish present. |
| 198048 | Cesford Creek | -126.3062 | 54.50844 | Sampling could help build weight of evidence that no connection exists to Bulkley mainstem. |
| 198049 | Cesford Creek | -126.2986 | 54.51141 | Here or hwy 16 sampling could help understand downstream connectivity (or likely lack thereof) at railway. If CO get through as fry they may not get back out to mainstem. |
| 198060 | Tributary to Owen | -126.7967 | 54.14676 | Was passable when assessed in 2021. |



| id | Stream | long | lat | comments |
|------------|-----------------------|-----------|----------|--|
| 198065 | Watson Creek | -126.2178 | 54.49038 | - |
| 198066 | Thompson Creek | -126.8311 | 54.56060 | Great candidate for channel redirection and would be good to get idea of baseline species composition/abundance. |
| 1001800067 | Perow Creek | -126.4427 | 54.51753 | _ |
| 1001800255 | Stock Creek | -126.7483 | 54.44729 | - |
| 1001800403 | _ | -126.3443 | 54.48465 | - |
| 1001800670 | Vanderven Creek | -126.8799 | 54.65751 | - |
| 1001800865 | _ | -127.3516 | 54.48459 | - |
| 1001801039 | _ | -126.8010 | 55.12847 | - |
| 1001801071 | Perow Creek | -126.4438 | 54.52105 | - |
| 1001801115 | Watson Creek | -126.1912 | 54.49465 | - |
| 1001801123 | Watson Creek | -126.2046 | 54.49383 | - |
| 1001801328 | Robin Creek | -126.8760 | 54.65013 | |
| 1001802047 | Bulkley River | -126.1262 | 54.42364 | - |
| 1001802069 | Johnny David Creek | -126.4370 | 54.59094 | - |
| 1001802239 | _ | -126.0217 | 54.14638 | _ |
| 1001802374 | Causqua Creek | -127.3052 | 55.03743 | - |
| 1001802482 | Vallee Creek | -126.8239 | 54.52943 | - |
| 1001802798 | Coffin Creek | -126.9224 | 54.60968 | - |
| 1001803294 | _ | -127.6018 | 55.23941 | - |
| 1001803607 | _ | -126.6900 | 55.10620 | - |
| 1001804538 | - | -126.0988 | 54.45026 | - |
| 1001805019 | - | -126.0716 | 54.42277 | - |
| 1001805507 | Stock Creek | -126.7647 | 54.42550 | - |
| 1001806259 | Maish Creek | -126.9413 | 55.22649 | - |
| 1008300001 | - | -127.6763 | 55.31842 | Very close to Skeena mainstem. On aerial imagery appears as though stream might be difficult to loacate and not a straight forward connection. |
| 1008300023 | - | -127.6636 | 55.31161 | Private driveway on private land. CO fry observed upstream during salvage (FISS). |
| 1008300024 | _ | -127.6765 | 55.39932 | No fisheries information |
| 1008300095 | _ | -128.0053 | 55.12911 | Phase 1 required. Backwater location. Large stream with many species confirmed upstream. |
| 1008300103 | _ | -127.7272 | 55.45409 | Coho upstream with significant amounts of lake and wetland habitat. |
| 1008300104 | - | -127.7475 | 55.48778 | CO points upstream and downstream. |



| id | Stream | long | lat | comments |
|------------|-------------------------|-----------|----------|--|
| 1008300105 | _ | -127.7614 | 55.49663 | Coho and CT obs immediately downstream of the crossing. |
| 1008300118 | _ | -127.8498 | 55.48371 | Access to Afleck Lake. No fish info. |
| 1008300124 | _ | -128.4618 | 55.73204 | Fish sampling completed by SFC. Confirm if this road has been deactivated. |
| 1008300128 | Sterritt Creek | -127.6561 | 55.51102 | Downstream gradient models at 10% with potentially tight confinement so some potential for natural barrier downstream. |
| 1008300142 | McIntosh Landing Creek | -127.7438 | 55.19779 | Road mapped as approaching from either side. |
| 1008300144 | _ | -127.7606 | 55.18612 | Could be difficult surveying due to wetland type terrain. |
| 1008300157 | Shandilla Creek | -128.0209 | 55.08814 | PK noted upstream and downstream. Rock obstacles noted upstream 400 and 500m in both Shandillas |
| 1008300161 | _ | -127.8117 | 55.49344 | Private loand 200m downstream nd 400m upstream. |
| 1008300162 | _ | -127.8436 | 55.50858 | Provides access to Pentz Lake |
| 1008300163 | _ | -127.9080 | 55.54445 | Wetlands pstream. Not far from Kispiox. |
| 1008300178 | _ | -128.0719 | 55.27938 | Stream network looks all over the place here. May not be straight forward to find channel. |
| 1008300188 | _ | -128.0817 | 55.28883 | Wetland/lake area upstream. |
| 1008300437 | _ | -128.1692 | 55.40011 | Wetland type area. May be difficult to find channel |
| 1008300440 | _ | -128.1704 | 55.40725 | Downstream of SFC Map reference 15. SFC indicate FHAP completed in 2008. |
| 1008300465 | _ | -128.2141 | | SFC references FHAP in 2008. No streamline apparent above the road but SFC report mentions mapping error in imap |
| 1008300483 | _ | -127.7887 | 55.50325 | Private land. Need to approach landowner about access. May be bridge but difficult to tell. Historic restoration work on this stream by AMEC and McElhanney. |
| 1008300492 | Hevenor Creek | -127.7372 | 55.42802 | Private land. Difficult to tell if this crossing is present. Seems likely due to amount of buildings on otherside of stream from main farm yard. |
| 1008300849 | Hazelton Creek | -127.7489 | 55.26378 | Known PK spawning locations downstream. |
| 1008300856 | - | -127.7501 | | Wetland areas upsteam. Some areas upstream look like gravels from aerial imagery. Streams are tagged as intermittent about 350m upstream. |
| 1008300970 | _ | -127.9172 | | SFC mod priority with cost/benefit noted as required. Surveying upstream crossing could be enlightening. Downstream is private land. |
| 1008301137 | Beaverlodge Creek | -128.2883 | 55.66013 | CO and PK points in Kispioox just downstream. |
| 1008301242 | - | -128.3837 | 55.71050 | Road may be deactivated. Suspect difficult surveying due to wetalnd areas. |
| 1008301290 | _ | -127.9975 | 55.57653 | Private land. Road difficult to make out on aerial imagery. |
| 1008301326 | _ | -127.7303 | 55.43296 | Very close to Hevenor Creek with numerous species downstream. PK and CM spawning locations just downstream of confluence. Private land crossing. Seventeen mile road crossing just upstream. |



| id | Stream | long | lat | comments |
|------------|-------------------|-----------|-----------|--|
| 1008301446 | _ | -128.1221 | 55.08659 | Private land. Need to knock on door for access. |
| 1008301747 | _ | -127.9938 | 55.67868 | SFC work conducted but no formal hab con. Smaller system |
| 1008301754 | _ | -127.9811 | 55 64290 | FISS site notes indicate high value habitat. NFC at upper site. Suspect distribution limit is open |
| | | .2 | 00.0 .200 | wetland area well upstream of second crossing up. |
| 1008301892 | _ | -127.9002 | 55.63994 | Stream may not be located where mapped. Suspect main crossing is futher to the east a bit. |
| 1008301923 | _ | -128.2909 | 55.33994 | Crossing is way up in the mountains. Although there are no sample sites I would think that |
| | | | | forestry would have fish info for this area. |
| 1008301994 | _ | -128.2055 | 55.40990 | SFC completed FHAP.CO and CT. Habitat models as 8% upstream. |
| 1008302085 | - | -127.5850 | 54.94306 | CO not too far downstream. CT upstream. Maybe be bridge. |
| 1008302116 | _ | -128.3780 | 55.67988 | Cascade at road. Decent size lake with CT and MW. |
| 1008302257 | Pinenut Creek | -127.6258 | 55.38699 | No fisheries information. |
| 1008302324 | _ | -128.3269 | 55.74628 | Small lake upstream. Road deactivated? |
| 1008302371 | _ | -128.0575 | 55.63136 | CO and PK doenstream with CT upsstream. |
| 1008302377 | _ | -128.0884 | 55.64649 | Falls at end of reach 3 on main trib (see FISS sites for details). CT present upstream. |
| 1008302403 | _ | -128.3250 | 55.65646 | Numerous sample sites upsteam with no fish noted. AT 1km upstream gradient noted as 17%. |
| 1008302422 | _ | -127.9222 | 55.51787 | CT and DV downstream. Small lake upstream. |
| 1008302518 | _ | -127.8371 | 55.47573 | Numerous wetlands upstream but stream habitat likely limited. CH spawning noted just |
| | | | | downstream in McCully. |
| 1008302758 | _ | -128.0083 | 55.66285 | Difficult to tell if road is there. Suspect backwtered crossing if CBS present. |
| 1008302857 | Andi Creek | -127.9647 | 55.09927 | Railway. Difficult access. |
| 1008302868 | Chicago Creek | -127.6735 | 55.21494 | No obvious access tothis site. |
| 1008302869 | Gershwin Creek | -127.7363 | 55.18229 | Railway crossing. Phase 1 not completed but SFC references work from 2000, and 2015. |
| 1014000009 | _ | -126.7377 | 54.38009 | Design already completed by Steve Andrade. Plugging issues. Dry at time of photos from Steve |
| 1014000057 | _ | -126.8854 | 54.32498 | Large wetlands upstream and close to Morice mainstem. |
| 1014000255 | _ | -127.2638 | 54.13167 | Phase 1 needed. Larger system with channel visibe in aerial imagery. |
| 1014000571 | _ | -126.9767 | 54.28765 | Heavily logged upstream and many branches upstream are classed as intermittent. |
| 1014000666 | _ | -127.2445 | 54.05843 | SFC site with fish point and lake upstream. |
| 1014000768 | _ | -126.8489 | 54.23059 | Smaller stream with other road just upstream. Should assess but unlikley high value habitaat. |
| 1014000819 | - | -126.9732 | 54.19572 | Needs phase 1! |
| 1014000855 | _ | -126.8984 | 54.31800 | CT point upstream. Small split watershed with many intermittent tagged streams. |
| 1014001120 | _ | -127.1446 | 54.23852 | Fish noted in outlet pool. Huge outlet drop. Fish points upstream. |



| id | Stream | long | lat | comments |
|------------|--------------------|-----------|----------|--|
| 1024600895 | Silvern Creek | -127.4035 | 54.77358 | Silvern Creek. Not yet assessed. Large system. |
| 1024600913 | Sandstone Creek | -127.7130 | 54.80526 | Duplicate of PSCIS 8530. DV and CT confirmed. SFC recommends habitat confirmation |
| 1024601067 | _ | -127.5223 | 54.81647 | Adjacent to CO points with some lake/wetland upstream. |
| 1024601216 | - | -127.6873 | 54.78100 | Not associated with mapped stream. Seems unlikely to have significant amounts of high value habitat although could be crossing downstream of 8501 where there are DV known upstream. |
| 1024702220 | _ | -127.2789 | 54.04956 | SFC site with fish known upstream. |
| 1100001493 | Coffin Creek | -126.9143 | 54.59003 | - |

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 https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field https://www.assets/gov/environment/natural-resource-stewardship/nr-laws-policy/risc/field/https://www.assets/gov/environment/natural-resource-stewardship

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.