

From: s.15; s.19
Sent: March 2, 2021 11:33 AM
To: s.15; s.19
Subject: Re: Wolf samples

Okay. They will likely be done by the end of this week potentially a bit into the following week. I will also have a few unused health kits to send back as well.

s.15; s.19

From: s.15; s.19
Sent: Tuesday, March 2, 2021 10:55:35 AM
To: s.15; s.19
Subject: RE: Wolf samples

Excellent. Purolator is best for shipping samples. Any idea when the contractor is due to finish up? I need to stay on top of caribou samples so I can bill labs before fiscal year end. If you can keep me in the loop that would be amazing.

S

From: s.15; s.19
Sent: March 2, 2021 9:00 AM
To: s.15; s.19
Subject: Re: Wolf samples

Okay, thanks for the quick reply ^{s.15}_{s.16}. I will have quite a few caribou and wolf samples to send after the contractors are complete work in Tweedsmuir. I will shoot you an email before I am ready to send the samples.

Cheers,

s.15; s.19

From: s.15; s.19
Sent: Tuesday, March 2, 2021 8:55:40 AM
To: s.15; s.19
Subject: RE: Wolf samples

Hi s.15; s.19

Ear tips should be stored in small white coin envelopes and kept at room temperature and away from direct heat to dry. Label the envelope with the species, date collected, MU, sex and WLH ID if they have one (i.e. a collared animal). If the wolf was assigned a regional ID, please include that as well. Remember that we only need a small piece from the tip of the ear, not the entire ear. You may laugh but we have been sent entire ears before 😊

You can send them anytime, just let me know when they are on the way.

s.15;
s.19

From: s.15; s.19
Sent: March 1, 2021 9:34 PM
To: s.15; s.19
Subject: Wolf samples

Hi s.15; s.19

I have some wolf ear tip samples from wolves that were removed from Tweedsmuir-Entiako. I just wanted to double-check to see how these samples should be stored before I send them to your lab.

Thanks,

s.15; s.19

DATE	DAILY HOURS FLOWN	TOTAL HOURS	COMMENTS FOR THE DAY	Total # of Wolves Removed	# of Wolves Collared	# of caribou Collared
2022-02-03			crew flew to EDI report of 3 wolves. Observed 6 wolves total, 5 black and 1 grey. EDI had reported 2 gray and 1 black. Collared one black wolf pup, <u>45380</u> . Removed 5 wolves. Fuel at Puntzi Cache 12:00, used one drum, 12 drums left. 12:38 beeped in Summit BDH wolf 42197. Located kill. Observed one gray, no collar but collar nearby. Four wolves observed, 3 gray, 1 reddish gray. Collared male adult wolf 45305. Removed three wolves including collared wolf 42197. 15:00 Flew to Puntzi for fuel and used one drum. 11 drums left in cache. Scouted area until 16:50, just old tracks located.	8	2	0
2022-02-04			crew flew Dean River Corridor. Observed 4 wolves total on a kill, 2 black and 2 grey, believe there's at least 5-6 though. Collared one gray wolf, <u>45383</u> , Dean River Pack. Removed 3 wolves. Fuel at Anahim 11:00. 11:35 saw group of 22 caribou, including 1 lotek collar, captured and re-collared. At 13:00 headed to Tatla Lake and located kill on Patterson Lake. 13:20 observed wolf tracks on Eagle Lake coming from a bait station. Observed and collared one adult male gray wolf <u>45288</u> . No other wolves observed. 14:20 Observed cougar on a horse carcass by Puntzi Airport. 10.5 drums left at Puntzi Fuel Cache	3	2	2
2022-02-05			Flew to One Eye Lake at 2 wolves observed at 09:10. 1 Black and 1 Gray. Removed one wolf and collared the other, black adult female <u>45379</u> . Moved to Tatla Lake and observed 7 wolves, 4 black and 3 gray. Collared one black yearling male, <u>45292</u> . Moved to Chilcotin lake, 9 wolves observed, removed 8 and collared one black female yearling <u>45304</u> . Spotted 15 caribou south of Chilcotin River, recollared a lotek caribou	9	3	1
2022-02-06			Fuel at Anahim Lake airport and left to check out tracks east of Anahim Lake at 08:45. At 09:15, 8 gray wolves observed at Punkutlaenkut lake, possibly 9 in pack. 09:30 collared a gray 2yr old female <u>45382</u> . Removed 6 wolves. Possibly three wolves left in pack inc collar, for follow up. 11:30 fuel at Anahim. 14:15 fuel at Nazko cache, 19.5 drums left. 15:00 located black wolf just outside mgmt area, while scouting the nazko river, large pack, ~12 and were tracked out of mgmt area. Collared black adult female wolf <u>45287</u> 16:30 located group of 7 caribou on Aktaklin Lake, collared one cow.	6	1	1
2022-02-07			Checking Lower Dean collar 45383. Observed collar with one black wolf. Removed one black wolf. Moved to Seymour Meadows to scout for wolves, no sign. 10:30 Fixed wing reported pack of 15 gray wolves. Located at 10:40. One gray 2yr old female collared <u>45381</u> . Bald Face Pack. 13 wolves removed. Fuel at Nazko, 18 barrels left. 14:20 observed four caribou on Long Lake, one cow collared. 15:00 collared one cow caribou on Aktaklin Lake. 15:30 another group of caribou encountered west of Aktaklin Lake, one cow collared. 16:00 Group of 11 caribou observed, one lotek collar replaced. Calf at heel.	14	1	4
2022-02-08			Moved to clean up Punk pack. Removed 2 wolves. Picked up dead caribou collar from summer, 34710. Collared single caribou on Aktaklin lake at 11:30, replaced lotek collar. 11:45 collared another cow caribou. 3 wolves removed at 12:24 from Tatla Pack. At 13:00 relocated Puntzi Creek Pack collar with one other wolf. Removed single black wolf. 14:15 located gray adult female from Fixed-Wing tip, collared <u>80911</u> . Clisbako Pack and removed one single gray male wolf	7	1	2

2022-02-09		Flew Hotnarko, Atnarko, Stewart Lake, Klinikleene, beeped in One Eye collar alone, beeped in Tatla collar, observed 2 additional black wolves, euthanized both, should still be one more remaining plus collar, refuelled Puntzi, flew Seymour Meadows extensively, maybe the Puntzi Creek pack was the Seymour Meadows wolves? No new tracks observed. Flew north, beeped in Honolulu pack, observed collar plus 4 wolves, backtracked and found split, observed 3 additional wolves 2 km North. Refuelled Nazko, flew Kuskoil cut tracks from 3+ wolves, followed for 5km NE but headed well outside zone so abandoned tracks. Flew Blackwater and surrounding lakes, pretty windy an temperture up to 18 degrees, snow melting rapidly, refuelled Laidman Lake, flew Dean to Anahim.	2	0	0
2022-02-10		Beeped in Lessard collar just west of Anahim Lake, observed additional wolf, euthanized black with old non-functioning collar. Refuelled Anahim, Flew Dean River area, cut single track north of Anahim Peak, walking on top of crust in places, slow tracking , returned to Anahim to refuel, returned and tracked out and euthanized single gray female west of Anahim Peak. Flew Beef Trail, Far Mtn. alpine area, Flew headwaters of Dean River, Refuelled Anahim, beeped in Baldface collar, observed only collared animal, should be one more there but no other track found, flew Satah and SE of Anahim area, no tracks observed.	2	0	0
2022-02-11		Beeped in Tweedsmuir Sigutlat collar in Rainbows, up in alpine above treeline windswept ridgelines bare ground, no tracks above trees, tracks in trees show 2 wolves but we could not locate second wolf, returned to Anahim after 2 hours of looking, refuelled, flew to One Eye Lake after reports of wolves howling at night, located One Eye collar, alone, 2 miles north of report, located single black where wolves were reported howling, euthanized it. Beeped in Tatla collar, Daryl had observed gray with it on Martin lake, unable to locate gray wolf. Flew to Chilcotin Lake, Daryl beeped in Chilcotin collar and observed 6 wolves with it, we managed to get 3 blacks and one gray, wolves running on hard crust so unable to track out additional 2 wolves. Refuelled Puntzi, beeped in Eagle collar, 15 miles south of Eagle Lake, observed one black with it, believe to be title lands there so unsure if we should euthanize it so we left it. Flew Klinikleene extensively, found old trails but no wolves, flew McClincey lake, Charlotte lake, Beeped in Lessard collar and observed one black with it! euthanized black and left collar. End of day	6	0	0
2022-02-17		Contractor passing through treatment area observed single black female Seymour Meadow wolf and euthanized.	1	0	0
2022-03-18		Follow up sweep. Two different collars checked coming into the zone this afternoon. Punk wolf 45382 - Euthanized both the collar and the one other she was travelling with. It was a grey male, <u>with a black Prince George collar on it</u> . They were are caribou kill (calf or yearling at s.15; s.19), near the north side of Ilgatchu. Lower jaw collected. Gray male, old PG collar: s.19 Light Gray female, 45382: s.15; s.19. Next beeped in was the Baldface 45381 collar. Tracked out and euthanized 3 gray wolves. We left the collar alone, thinking there might be more wolves with her. Terra Hatch reported 5 crossing her field recently. All grays: s.15; s.19. We also beeped in the One Eye collar and got eyes on her about 2 miles from her kill. They had a moose kill on the end of Sapeye Lake. We were unable to observe or track out any others with her, due to snow conditions there.	5	0	0
2022-03-19		Searched s.22 area, beeped in 45381, bald face wolf. Confident that only collar remained, so euthanized and collar retrieved. Refuled and searched for 45380, Puntzi Creek wolf. Located a moose kill and just two wolves on it, euthanized a large gray and the collared black wolf, collar retrieved. From there, flew to Puntzi and refueled. Tried to beep in the Skeena collar but unable to locate. 16 & 1/4 drums left at Puntzi seacan. Relocated to Tatla collar and couldn't get a beep. Followed up with last location and beeped in collared wolf, unable to determine how many wolves with tatla wolf, no visuals.	3	0	0

2022-03-20		Beeped in 81233, Sigutlet wolf from skeena. No visual. Beeped in 45292 and located coming down the hillside onto Tatla Lake - no other wolves observed with it. Relocated to Puntzi Mt and observed no tracks. Searched northwest from there through Jorgensen, Satah, Lessard (no beeps heard) Dean River, Ulkatcho, Eliguk, Carnlick Crk, Mt Downtown, Punk Lake, Holtry Ck, Morrison Meadows and C2 to Anahim. Day end.	0	0	0

[illegible]

DATE	DAILY HOURS FLOWN	WOLF HOURS	CARIBO U HOURS	TOTAL HOURS	COMMENTS FOR THE DAY
26-Jan-22	2.0	2.0		2.0	Clear and good vis. Searched Nechako Reservoir and Newstubb Lake on the way in. Found fresh tracks of 3 wolves on the south shore of Newstubb Lake. Tracked them for about 300 meters and bumped them. Left them to pick up the track tomorrow. Searched Nataalkuz Lake and Intata Reach and found tracks of 2 wolves on the north shore. Will follow up on both locations tomorrow.
27-Jan-22	7.0	5.0	2.0	9.0	Clear and good vis. Searched for the 3 pack off Newstubb and Lucas Lake / Cicuta Lake enroute. Tracked them for over 2 1/2 hrs until needing to go for fuel. They had done a bog circle and back to Newstubb Lake, crossing to north side again. After refueling we did a recapture of a caribou cow in the Michel Creek area. (#81225) We then looked for the Cheslasie collared wolf along the Cheslasie River and at a gps fix point about 2 days old. Were unable to track the two wolves out before heading for fuel. After refueling, we went back to the Michel Creek area and collared two more caribou cows. (#80903 and 48848) before the end of day.
28-Jan-22	6.0	3.2	2.8	15.0	Overcast, good vis but low light. Went to search Fawnie Nose area for caribou. Collared three cows (one on top and two in the lower pines. #81230, 81229 and 48851). Carried on searching for additional cows in the vicinity and to Laidman Lake for fuel. Tailgate meeting with fixed wing crew and fueled. Second fuel cycle consisted of searching for wolves south and west of Laidman Lake. West Road River, Eliguk, north slope of Ilgatchuz, Moose Lake, Johnny Lake, Tsilbekuz Lake, Tsetzi Lake, Tetachuk. Located the tracks of at least three wolves on the north shore of Tetachuk, headed westbound for the length of the lake. Did not catch up to the wolves before needing to head to Ootsa for fuel and the end of day but did find a kill that was stripped and vacated within a day or so.
29-Jan-22	6.4	4.9	1.5	21.4	Overcast and snow / rain / lower cloud in morning. Brightened up in the afternoon when tracking wolves. Went to try and beep in caribou collars on Mount Wells. Unable to locate the caribou because we couldn't get high enough due to ceilings and whiteout. Dropped back down to Whitesail and located the tracks of eight wolves. Tracked the pack approx 8 miles to the area between Whitesail Reach and Tahtsa Reach. Located a moose kill site with the wolves on it. We left and returned to Ootsa for fuel. We observed a group of seven canids laying out on the ice a few miles from Ootsa so we carried on to add some fuel and returned to them. Turns out, it was a group of seven coyotes bedded together out on the ice. Went back to Ootsa to fill-up with fuel and then returned to the previous kill site. We collared a black female pup (#81234) and then were able to track out and euthanize the remaining seven pack members. Returned to Ootsa for fuel and the day.
30-Jan-22	6.1	5.2	0.9	27.5	Overcast, windy with a couple snow squalls. Low ceiling in the mountains. Tried to go beep in the collars on Mt Wells again but it was too foggy / cloudy up there. Searched Gatheli, Ghatzei, Fenton, Blanchett and Eutsuk. Tracked the pack from Tetachuk all the way to open water on Eutsuk until needing to go for fuel. After refueling, we returned and carried on searching for the wolves. Searched from there to the dated caribou collar locations towards the south but were unable to find any caribou. Searched for wolves while headed back towards Ootsa through Eutsuk, Tetachuk, Intata Creek, to Chief Louis Arm to land for the day at Ootsa. Last day with s.15; and she had to head home this evening.
31-Jan-22	5.6	3.7	1.9	33.1	Partly cloudy, windy and -11. We went to Mount Wells to collar the caribou, as per s.15; s.15; s.19 and I located a group of 13 caribou on top of a lower bench above alpine. Group consisted of cows, a few calves and a few bulls. Collared one cow (#81224) and decided not to collar another one up there due to the hard windswept snow ground conditions, which could increase risk to the animals. From there we went to search Fenton Lake, Wells Gray Peak, Eutsuk near John Buchan Island, Pondosy, Tesla and Wahla. We continued tracking out the group of 4 to 6 caribou (estimated) that we had started with s.15; the day before, along the Chezko River towards Wahla Lake. We tracked them to stands of thick green pine north of Wahla Lake. The area shows some use and evidence of a group of up to 8 caribou using the area, where the tracks led. We were unable to locate the caribou before needing to go for fuel. After refueling, now with Tadgh Howard, we returned to the area to continue searching. Unable to locate the caribou, we searched for other caribou or wolves through Nahlouza, Qualcho, Gatcho, Moose to Laidman, where we topped up with fuel. With day end coming, we searched back towards Ootsa, covering Entiako, Euchu Reach, Nataalkuz, and Intata to Ootsa where we landed for the day.

DATE	DAILY HOURS FLOWN	WOLF HOURS	CARIBO U HOURS	TOTAL HOURS	COMMENTS FOR THE DAY
01-Feb-22	7.0	7.0		40.1	Snowing and Vis 1-3 miles in morning, breaking to partly cloudy in afternoon. Windy. Searched through Cheslatta, Ootsanee, Takysie, Colleymount, Noralee, Nadina River, Skinny and Fish Lakes, Andrew's Bay to Ootsa. Picked up tracks of a few wolves on lower Nadina that were old. Refueled and searched along Intata, Natalkuz, Newstubb. Picked up tracks of two wolves between Newstubb and Lucas Lake. Tracked them for about 8 miles and located them near a small lake west of Bird Lake. Collared a gray male (#81232) and euthanized the other gray wolf with it. Searched from there back to Ootsa to refuel. Then went to beep in Wolf #45399 with a new position relayed by s.15; . Located an old moose kill that it appeared she had been scavenging on. We were unable to determine the amount of wolves with her in the thick regen and timber. We did get eyes on her but left her be for the time being.
02-Feb-22	7.2	6.8	0.4	47.3	Low cloud and flat light for most of the day. Snow flurries intermittent and -10 to -15. New snow helped with tracking. Went to beep in collar #45399, as pers.s.15; . to euthanize. The collar was intermittent and emitting a mortality signal. We located the collared female and one other gray wolf with her. Both were euthanized - no further pack members remain. We topped up on fuel at Ootsa and searched for wolves south to Tetachuck, Eutsuk to the high mountain plateau northwest of Capt Harry Lake. We beeped in and located a group of four caribou (#45325 & 45327) in the vicinity. There was a fair bit of tracks up there so we suspected that there might likely be additional animals up there, but cloud and fog at ground level made searching difficult. We captured a yearling female with the group of four and collared her with #48852. We were forced out of the area by cloud without being able to search further. We searched for wolves enroute to Laidman Lake fuel through Capt Harry Lake, Johnny Lake and Fawnie River. We refueled at Laidman and then searched for wolves through Naglico, Tsilbekuz (landed and poke to Walter Lampert for a minute) Tsetzi (landed and spoke to s.15; s.19 for a minute) Tsacha Lake Laidman Creek to Chedakuz, Newstubb, Kenney dam, Murray, Cheslatta to Ootsa.
03-Feb-22	5.6	3.5	2.1	52.9	Overcast and -7 in morning, warming to +1 and intermittent rain in afternoon. We went to caribou collar position on Eutsuk mountain and collared two cows up there (#48849 and 81227) in a group of 15 animals (6 calves in group). We then went to the next collar location above Tesla Lake and collared two cows there in a group of 8 (#48850 & 81223). We then searched and found wolf tracks (2 wolves) on the Chezka River while enroute to Ootsa for fuel. We returned and resumed tracking in tough light conditions and hard snow. We tracked them west for about 12 miles to the west end of Tesla Lake, before needing to return for fuel and day end. On the way back, we found a dead moose calf (?) with two wolverines camped out on it, for some time now it appears, at N53.37657 / W125.93761.
04-Feb-22	7.3	5.8	1.5	60.2	Partly cloudy, +4 and wind apx 20 - 30 kts all day. Searched towards Nutli Lake and located sign of a large group of caribou. Found a group of 12 animals consisting of cows, bulls and 2 calves. Collared #81228 and 81231. Returned to top up with fuel at Ootsa. Searched for wolves along Intata, Euchu, Cheslasie, Entiako to Cow Lake. Found tracks of four wolves at the west end of Cow Lake. Tracked the wolves for nearly two fuel cycles over about 12 miles in the vicinity of Cow Lake. Finally caught up to them late in the afternoon and euthanized all four members of the pack. There was one black and three grays. One of the grays had a black collar on it, which we assume to be non-functioning. Daylight and fuel being a consideration, I elected to leave for the night, planning to return tomorrow and retrieve the collar. It will only be a couple hundred yards to hike, and morning should provide a crust to walk on.

DATE	DAILY HOURS FLOWN	WOLF HOURS	CARIBO U HOURS	TOTAL HOURS	COMMENTS FOR THE DAY
05-Feb-22	7.0	6.5	0.5	67.2	High cloud and windy at +4 degrees. Searched our way to Cow Lake to retrieve collar from yesterday's wolf. s.15; s.19 was able to crawl about 200 yards through deep snow to the euthanized wolf and retrieve the collar. It is a black collar with adjustment on each side, but no identifying marks on the collar. From there we searched Johnny Lake and Fawnie River to Laidman to top up with fuel. Searched from there through to Tsacha Lake, Tsetsi, Tsilbekuz, West Road river, Eliguk to Gatcho. Found tracks (two days old?) and tracked them south west for apx 6 miles. Let to Laidman to refuel. Returned and continued tracking to the Dean River. Lost the tracks in an area of heavy wolf & moose tracks near the location where the "Dean Wolf" was collared last winter. (That collar is no longer sending gps fixes since May 2021, but we did monitor the frequency while in the area.) We were unable to locate a definite outtrack at the Dean location in the vicinity of N52.89 / W126.06, nor a kill site. With the amount of tracking in the area, it would seem that there should be a killsite nearby. From there we searched the Dean to the confluence of Sigutlat River, and north through Nahlouza, Tesla to Pondosy. We were able to locate a group of 7 caribou on a ridge above Pondosy Lake, but fuel and daylight did not allow the time for us to deploy a collar. Will return tomorrow if weather permits. Beelined to Ootsa from that location before dark.
06-Feb-22	8.4	8.4		75.6	Partly cloudy, windy, +2 degrees. Searched Intata, Natalkuz, Newstubb, Chedakuz (old tracks of two headed south), Tatalkuz, Davidson Ck to Laidman. Refueled and searched towards Tsetsi, Tsilbekuz, Eliguk, Dean River to Sigutlat River. Located wolf sign and tracked the pack towards Sigutlat and found a moose kill site. Collared a black male (#81233), euthanized one gray and tracked another (black adult with old black collar) until needing to go for fuel to Laidman. Returned after fueling and continued tracking. Located and euthanized another gray wolf before needing to leave for Ootsa for the night. Will return to finish another day, with a collar now in the pack.
07-Feb-22	6.2	4.9	1.3	81.8	Partly cloudy, +30 kt winds, 0 degrees. Went top Pondosy to collar the last caribou of the project. Located a group of 7 caribou on the ridges to the northwest of Pondosy Lake. Two calves and two collars observed in the group of seven. One collar was #45330 and the other presumably non-functioning. We collared a lone cow (#81226). We then searched for wolves on Eutsuk, St Thomas Bay, Tetachuck to Ootsa for fuel. We the searched Ootsanee, Cheslatta, Bird Lk, Cicuta Lk, Newstubb, Natalkuz, Deerhorn Hill, Takysie, Grassy Plains, Francois west anmd Nadina River. Old tracks located west of Grassy Plains but unable to tell how many or which direction of travel because the tracks are week(s) old.
08-Feb-22				81.8	Inspection
09-Feb-22				81.8	Inspection
10-Feb-22	2.2	2.2		84.0	Clear and windy, +6. Midday, following inspection completion, we searched from Francois, Grassy Plains to Cheslatta. Found track of a wolf near Cheslatta river and tracked it out in limited snow and tough tracking conditions. Quickly located a gray male and due to the conditions and area, I decided to euthanize it without delay. Eartip, hair and pics taken. After the first wolf we backtracked it and located an out track with of other wolves. We tracked them to and across the Cheslatta River, until fuel forced us to return to Ootsa. Will attempt to follow up tomorrow.
11-Feb-22	5.4	5.4		89.4	Clear and +3. Searched to Cheslatta to follow-up on the remaining two wolves from yesterday. Located overnight tracks at the river crossing from the ground, but with the snow conditions and timber, we were unable to track them further. Topped up with fuel and searched Intata, Euchu, Tetachuck, Entiako and plateau, Eliguk to Laidman. Refueled and located a day or two old track of a single wolf crossing Laidman strip. Tracked it to midway along Johnny Lake. Due to snow conditions, we were unable to determine where it got off the lake. Searched towards Gatho and Sigutlat. Tried to beep in the collar from a two day old position but were unable to locate the pack. Will followup once we get a new gps position. Searched back direct to Ootsa Lake.

DATE	DAILY HOURS FLOWN	WOLF HOURS	CARIBO U HOURS	TOTAL HOURS	COMMENTS FOR THE DAY
12-Feb-22	5.8	5.4	0.4	95.2	Clear and +3. To gps position of caribou reported by fixed wings. Yesterday. We found a group of apx 12 caribou in heavy cover, consisting of cows, calves and at least 1 bull. We were able to collar #45324. There was no data sheet in the collar package so I will provide info here: Collared at s.15; s.19 . Two antlers. No injuries. Average Body Condition Score was 3. Age estimated at 6-7 yrs. Unknown if calf at heel and not lactating. Radio Freq - 151.820, Collar #8, WLH ID - 21-2150, Ear Tag# 00-4313. All samples taken and all pics emailed to s.15; From there we searched for wolves through to Marilla, finding old tracks of apx 5 wolves on a little lake north of Marilla a couple miles. Unable to followup anywhere due to the age of tracks and snow conditions in the area. Searched to Ootsanee, Tyee Butte, Cheslatta and Chief Louis Arm to Ootsa. After refueling, we searched south along Intata and found a track from a single wolf on the north / east shore. We were able to locate and euthanize the single female gray wolf. From there we continued searching along Nataalkuz, Newstubb, Chedakuz, Tatlekuz, Fawnie lowlands, Euchu to Ootsa.
13-Feb-22	7.3	7.3		102.5	High cloud, 0 - +5 degrees, light rain in afternoon. Searched Ootsa, Tahtsa, Whitesail, Pondosy, Tesla, Wahla, Eutsuk, Tetachuck, Entiako, Johnny, Mathews Ck to Laidman. Refuel. Searched to Dean River and Anahim Peak. Tried to beep in 81233 from last gps position but no luck. Searched through Tsillbekuz, Tsetsi, Euchiniko, Kuyakuz, Tatlekuz, Chedakuz, Nataalkuz, Intata to fuel at Ootsa. Searched through Cheslatta, Knapp, Binta. Found sign of 5 or 6 wolves on Binta, but old sign and headed north. Found day or two old sign of a lone wolf on Cheslatta, on south shore and headed south. Snow conditions prevented us from being able to track it out once it got into the burn on hard crust.
14-Feb-22	6.5	6.5		109.0	Rain / Sleet shower in morning at +2. Cleared by about 1000 hrs. Searched Tetachuck, Eutsukl, Nahlouza, Siglugut to the Dean river to beep in that collar, based on last available gps position. Finally located collar in thick timber north of last position and nearly back tpo collar location. Unfortunately, we were unable to track the collar or other wolves with existing snow condition at that location. At the collar location and creek crossing, it appears there are 3 wolves remaining on that pack. Searched Tanya Lakes, Qualcho, Cpt Harry, Entiako, Cheslasie to Ootsa fuel. Refueled and searched Marilla, Cheslatta, Takysie, Grassy Plains, Francois, Nadina River (located 2 week old moose kill and the old wolf tracks at site) Wistaria, Streatham, Uncha, Binta, Knapp, Cheslatta, Bird, Nechalo Res, Newstubb, Nataalkuz and Intata to fuel.
15-Feb-22	6.5	6.5		115.5	High overcast and -4. Winds 10, G 25 kts. Searched Deerhorn Hills, Cheslatta, Chedakuz, Tatelkuz, Tsacha, Tsetsi, Tsilbekuz, Naglico, Moose, Johnny, Fawnie Creek to Laidman. Refuel. Searched Ulkatcho, Sigutlat, Nahlouza, Tesla, Wahla, Eutsuk, St. Thomas, Whitesail, Mt. Wells (Saw goat on west side of Mt. Wells), Wistaria, Takysie, Cheslatta, Chief Louis Arm to Ootsa.
14-Mar-22	1.2	1.2		116.7	Partly Cloudy, +9, very windy. Searched Knapp Lake, Cheslatta, Double Box Ootsa, Marilla, Takysie to Francois. Old tracks on Cheslatta.
15-Mar-22	8.4	8.4		125.1	Partly Cloudy, Temp -4 to +4, windy. Searched Francois Colleymount area and found a pack. Euthanized all 10 in the pack. Searched through Tatalrose, Wistaria, Streatham, Skins Lake, Marilla to Ootsa fuel. Refueled and searched Intata, Cheslasie Arm, Tetachuck, Eutsuk, Nahlouza, thru Qualcho river. Found tracks of a two pack, 2 miles west of Qualcho Lake, near what looks to be two dead calf moose. Neither appeared to have been scavenged upon by anything but wolverine. The wolf tracks were located a few hundred yards away from the kill, likely attracted to it by the bird activity. Managed to track the pair for about 3 miles before needing to leave them for fuel. Refueled at Ootsa and returned. Tracked them for another 3 miles and we were able to euthanize both.
16-Mar-22	8.2	8.2		133.3	Partly cloudy, Temp -2 to +5, windy. Searched Nadina, Fish Lake and Skinny Lake, looking for #81234 based on latest position. No luck. Searched Andrews Bay, Ootsa, Marilla, Chief Louis Arm. Refueled and searched for #81232. Located him but couldn't get eyes on the other buddy he picked up, in thick regen, so we left him alone for the time being, to look again tomorrow. Searched Cheslatta, Tyee Bute, Ootsanee, Takysie, Cheslatta River, Cheslasie Highlands to fuel. Refueled and searched Uduk, Chief Louis Lk, Sabina, Ghitelzi, Glatheli to tahtsa Reach. With updated position, we located #81234 and found she was traveling with another black pup, perhaps missed from the initial cleanup of that pack(?). Euthanized both the black wolves and retrieved the collar by end of day.

DATE	DAILY HOURS FLOWN	WOLF HOURS	CARIBO U HOURS	TOTAL HOURS	COMMENTS FOR THE DAY
17-Mar-22	7.4	7.4		140.7	Clear, Temp -2 to +4. Searched to Nadina River / Francois and observed 5 wolves running through a meadow along the river. Dropped doors and managed to visually locate and euthanize 3 wolves. Due to snow conditions at the area, tracking was not possible. We landed and shutdown a few times to howl and locate the wolves, however, we were unable to track or locate the remaining wolves in the mature timber. It sounded like three wolves remain. Searched to Lund Lake, Wisteria, Marilla, Cheslasie R highlands to Ootsa. Refueled and went to beep in #81232 in the Deerhorn. Located the collar and a young black wolf. Dropped the doors but were unable to relocate to black wolf again. Very poor tracking conditions in the area. Left the collar alone for now. Searched to Bird Lk, Lucas, Newstubb, Chedakuz, Tatelkuz, Fawnies, Entiako, Tetachuck, Euchu Reach, Intata, Takysie.
18-Mar-22	4.2	4.2		144.9	Partly Cloudy, Temp -2 to +1. Searched Grassy Plains, Uncha, Ootsanee, Cheslatta to Deerhorn Hill and collar #81232. Beeped him in and then searched extensively to locate his travelin buddy, from their moose killsite, outwards. Finally located the black wolf during high orbits and euthanized it. We attempted to reloacte the collar to also euthanize it, but were unable to get eyes on it again in thick mature timber. We decided to leave it, as it's range seemes to be entirely between Cheslatta, Intata and Newstubb. It has also been successful in picking up three other single wolves, all of which we have euthanized. Hopefully the collar will remain active until next winter. Searched Ootsa, Cheslasie, Euchu, Tetachuck, Entiako River, Mathews Lake, Tsilbekuz and Tsetzi.
Totals		129.6	15.3	144.9	Program complete

DATE	PERSONNEL	WOLVES REMOVED	WOLVES COLLARED	Wolves collared or removed ?	PACK	REMAINING PACK SIZE ESTIMATE	UPDATED PACK REMAINING	LATS. (decimal degrees)	LONGS (decimal degrees)	COLLAR SERIAL #	COLLAR FREQUENCY	SEX	COLOUR	AGE ESTIMATE	SIZE	SAMPLES TAKEN?	WILDLIFE HEALTH ID#	CWC- s.15; Comments	S. update comments	Total
26-Jan-22	s.15; s.19	0	0	N																
27-Jan-22		0	0	N																
28-Jan-22		0	0	N																
29-Jan-22			1	Y	Whitesail	0		s.15; s.19	s.15; s.19	81234	149.140	f	black	pup	avg	yes	21-2066			
29-Jan-22		1		Y	Whitesail	0														7
29-Jan-22		1		Y	Whitesail	0														
29-Jan-22		1		Y	Whitesail	0														
29-Jan-22		1		Y	Whitesail	0														
29-Jan-22		1		Y	Whitesail	0														
29-Jan-22		1		Y	Whitesail	0														
29-Jan-22		1		Y	Whitesail	0														
30-Jan-22		0	0	N																
31-Jan-22		0	0	N																
01-Feb-22			1	Y	Bird Lake	1				81232	149.115	m	gray	3	avg	yes	21-2068			
01-Feb-22		1		Y	Bird Lake	0														1
02-Feb-22		1	0	Y	Cheslasie	0							both gray	?	avg			Gray collared female #45399; TWC1011 euthanized as per KM		2
02-Feb-22		1	0	Y	Cheslasie	0														
03-Feb-22		0	0	N																
04-Feb-22		1	0	Y	Cow Lake	0							black	adults	avg			One of the grays euthanized had old black collar. We retrieved it. No serial # info on it	Antenna on Lotek collar gone so unable to identify collar ID	4
04-Feb-22		1	0	Y	Cow Lake	0							gray							
04-Feb-22		1	0	Y	Cow Lake	0							gray							
04-Feb-22		1	0	Y	Cow Lake	0							gray							
05-Feb-22		0	0	N																
06-Feb-22			1	Y	Sigutlat River	1				81233	149.130	m	black	yearling collared	avg	yes	21-2065	1 black male colored		
06-Feb-22		1		Y	Sigutlat River	1							gray							2
06-Feb-22		1		Y	Sigutlat River	1							black							
07-Feb-22		0	0	N																
10-Feb-22		1	0	Y	Cheslatta	2						m	gray	yearling	avg	ear/hair				1
11-Feb-22		0	0	N																
12-Feb-22		1	0	Y	Intata	0						f	gray	2	avg	ear/hair				1
13-Feb-22		0	0	N																
14-Feb-22		0	0	N																
15-Feb-22		0	0	N																
15-Mar-22		1	0	Y	Francois Colley	1							gray			no				10
15-Mar-22		1	0	Y	Francois Colley	1							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Francois Colley	0							gray			no				
15-Mar-22		1	0	Y	Dean River	0							gray		avg	no				2
15-Mar-22		1	0	Y	Dean River	0							gray		XL	no				
16-Mar-22		1	0	Y	Whitesail	0							black		small	no		81234 removed		2
16-Mar-22		1	0	Y	Whitesail								black		small	no				
17-Mar-22		1	0	Y	Nakina	1							gray			no				3
17-Mar-22		1	0	Y	Nakina	1							gray			no				
17-Mar-22		1	0	Y	Nakina	1							gray			no				
18-Mar-22		1	0	Y	Bird Lake	1							black			no		Found with 81232		1
19-Mar-22					Tetachuk	6													only saw tracks,	

DATE	CARIBOU COLLARED	YEAR TOTAL	HERD	LATITUDE	LONGITUDE	COLLAR SERIAL #	COLLAR FREQUENCY	SEX	SAMPLES TAKEN?	WILDLIFE HEALTH ID#
26-Jan-22	0	0								
27-Jan-22	3	3	Tweedsmuir	s.15; s.19	s.15; s.19	81225 80903 48848	148.340 148.360 148.425	Cows	Yes	Recap KM 21- 2173 21-4139
28-Jan-22	3	6	Tweedsmuir			81230 81229 48851	148.400 148.623 148.515	Cows	Yes	21-2167 21- 2670 21-2164
29-Jan-22	0	6								
30-Jan-22	0	6								
31-Jan-22	1	7	Tweedsmuir			81224	148.35	Cows	Yes	21-2162
01-Feb-22	0	7								
02-Feb-22	1	8	Tweedsmuir			48852	unknown - KM	F-yrIg	Yes	21-2166
03-Feb-22	4	12	Tweedsmuir			48849 81227 48850 81223	148.396 148.390 148.316 148.450	Cows and F- yrIgs	Yes	21-2168 21- 2165 21-2174 21-2163
04-Feb-22	2	14	Tweedsmuir			81228 81231	148.731 148.370	Cow	Yes	21-2172 21- 2175
05-Feb-22	0	14								
06-Feb-22	0	14								
07-Feb-22	1	15	Tweedsmuir			81226	148.48	Cow	Yes	21-2169
08-Feb-22			no more collars beyond this date							
09-Feb-22										
10-Feb-22										
11-Feb-22			provided with one more caribou collar							
12-Feb-22	1	16	Tweedsmuir			45324	151.82	Cow	Yes	21-2150
13-Feb-22										
14-Feb-22										
15-Feb-22										
16-Feb-22										
17-Feb-22										
18-Feb-22										
19-Feb-22										

Wolves collared or removed ? (All)

Row Labels	Sum of WOLVES REMOVED	Sum of WOLVES COLLARED	Sum of REMAINING PACK SIZE ESTIMATE
Bird Lake	2	1	2
Cheslasie	2	0	0
Cheslatta	1	0	2
Cow Lake	4	0	0
Francois Colley	10	0	2
Intata	1	0	0
Nakina	3	0	3
Sigutlat River	2	1	3
Tetachuk			6
Whitesail	9	1	0
(blank)	2	0	0
Grand Total	36	3	18