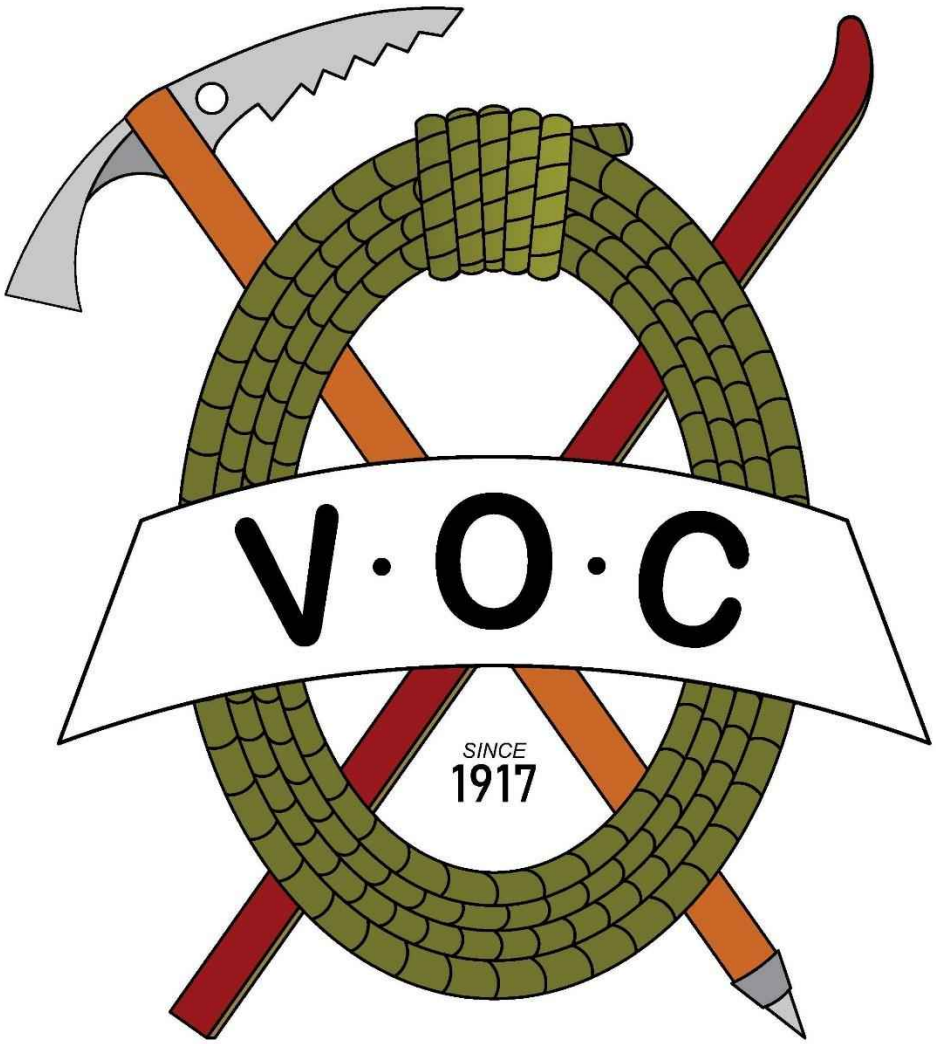
Hut Management Plan 2019

The Varsity Outdoor Club of the AMS

Published March 30th, 2019 by Haley Foladare (2018-2019 Huts Coordinator).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FOREWORD

Founded in 1917, the Varsity Outdoor Club at the University of British Columbia is a student-led club of roughly 800 members, dedicated to enjoying outdoor activities in a self-propelled and environmentally respectful manner. The club has changed a lot over our last 100 years, with early membership requiring individuals to "ascend to the peak of a mountain equal in height to Grouse". Membership today is open to everyone and we welcome those of all abilities and experience levels.

The first hut built by the VOC was on Hollyburn mountain in 1922, with a second hut built on Grouse in 1924. In the 1950's, VOCers relocated their efforts and built a hut on Mount Seymour as well as establishing the Roland Burton "Sphinx" Hut in Garibaldi Park. With transportation and highway improvements, the club then focused on the Whistler area in the 1960s. In 1982, we built Brew Hut, and shortly after in 1983, the Julian Harrison Hut. In 1999, Brian Waddington "Phelix" Hut was built. Although some of our earliest huts are no longer in commission, we continue today to maintain Burton, Brew, Harrison and Waddington Huts. In addition, the VOC has made contributions to the maintenance of Lizzie Creek Cabin. Further, we also manage the trails that lead to our huts. We aim to provide safe access and habitation of these huts for anyone who needs them.

For many VOCers the huts have been an integral part of their VOC experience. There are countless stories from alumni about the construction, continual maintenance, and well-deserved enjoyment of our various huts through the years. Though it has been a few years since the club has undertaken the construction of a new hut, their importance has not diminished. Many club trips use the huts throughout the year, and they also provide backcountry access opportunities to many non-VOCers. Although I love all our huts deeply, the Brian Waddington Hut will always hold a special place in my heart as I visited that hut on my first ever VOC trip. I hope all other current and future members may have the privilege of enjoying these huts as I have.

As we move beyond 2018 into our second century as a club we are proud to continue maintaining these huts to provide backcountry access to our many club members as well as the wider outdoor community. We will also continue to encourage and teach sustainable and ethical environmental practices. I am pleased to present the VOC's management plan.

Alastair White

2018-19 President, The Varsity Outdoor Club of the AMS

LETTER FROM THE EDITOR

2019 Huts Coordinator Exec Report

Last year, the reigns of Huts Coordinator were passed to Haley Foladare; a bright, pepper-skip and jump individual who's laugh livens the day. Unfortunately, an injury has precluded her from writing this report. Haley will be continuing as Huts Coordinator for the 2019 year and I wish for her a speedy recovery.

Haley and I have worked together through this past year to make progress on several fronts that were left un-finished last year. The big project of the year however was the Brew Hut Outhouse Project. If you have read my letter within the 2018 Management Plan, you may recall the problems that were associated with the old outhouse, namely lack of capacity, poor drainage, and difficult ground to dig into. In June, we were selected as a recipient by MEC for an Access and Activity Grant of $7,100. We are very grateful to MEC for their continued support for our organization and the backcountry community which we strive to support. In July, designs were finalized; August, the structure was fabricated; and in September, the outhouse was erected. See the cover page of this year's management plan for a photo of the completed structure. The outhouse is unique in that it stores waste inside the structure and features a bike-pedal-operated conveyor belt (built by the amazing Edward Lim) that separates solid waste from liquid waste. To read more about the project and all the features of the outhouse the full trip report is available online here or in this year's VOC Journal (61).

After the project was completed in September, there were a few mishaps with the conveyor, and it had to be returned to society in October. This was somewhat expected since the concept was designed from scratch and it hadn't been tested before we installed it. By December, the repairs were finished, but this time there was no helicopter to fly it up. In January, Sam Viavant took on the brave task of hiking it back up to be installed. His grunt work skills was amazing and well appreciated, however, his installation skills were a bit less so and there were some errors made that resulted in it not working again. In early March, the installation errors were fixed, with only a few more very minor issues that need addressing. The unit is working well now, and it's well on its way to having the testing/protoyping phase of its life over and done with.

In addition to the outhouse, a new polystyrene-insulated commercial steel door was installed. It was given the classic VOC "kid orange" paint job – a great improvement over the dull grey of the previous door. Along with the door was the door handle (also known as a passenger for those door geeks). Somehow this new passenger broke mid-winter; we still do not know how. Richmond Building Supplies was great and warrantied the passenger and provided us a new one free of charge. I am hoping that this one lasts a bit longer than the last. However, my last visit to the hut has not inspired confidence in me for the state of the new passenger. They are not super expensive to replace but it is wasteful and a time-consuming chore.

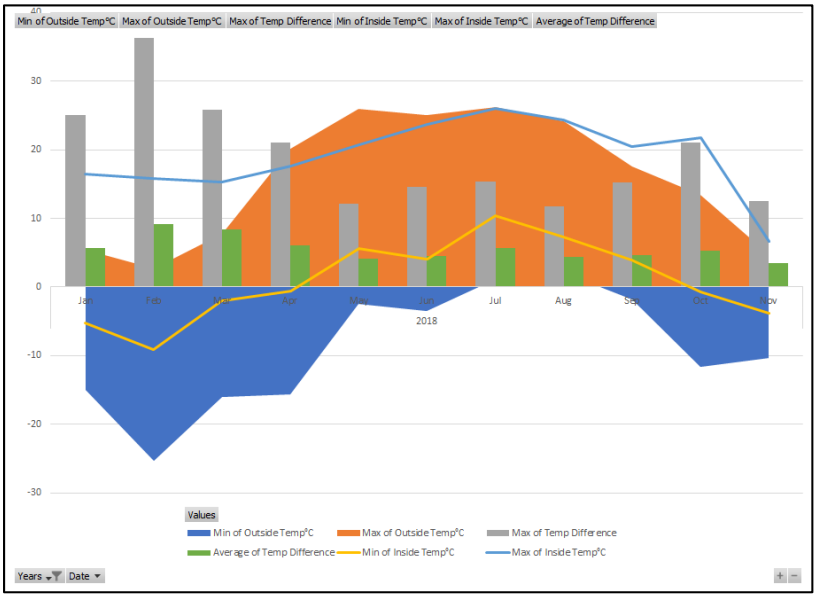
Brew Hut also had its firewood supply replenished this year. In June, a group of 12 VOCers hiked their way up to chop up some deadfall near the upper lake. With each person carrying about 2-3 rounds, we totaled about 750lbs; a good haul for carrying it up ourselves. With the outhouse project we also squeezed in two heli-lifts of firewood totaling 2,200 lbs. This year we were able to fly from the top of the R200 logging spur road, but it seems like the loggers maybe finishing with their use of this road, and as such, they have started it's decommissioning. In the future, it may be more difficult to get up to that open, easily accessible helicopter spot and so flying in wood may become more difficult and expensive.

At Brian Waddington Hut, the back wall received a layer of chalk-board paper. The aim of the board is to provide a space for visitors to share avalanche bulletins, weather reports, wildlife sightings or other condition reports. We also checked on the temperature/humidty sensors installed last year. The data collector units use a probe for the temperature but the unit itself measures the humidity. Unfortunately, we installed both units inside and so the humidity data was identical for both. We have fixed this for 2019 by moving one of the sensors outside. Some interesting facts from the unit for the past year:

Outside Temperature:
Coldest: February -25°C
Warmest: August +26°C

Inside Winter Temperature:
Warmest: January +17°C

Inside-Outside Difference:
Average: 6°C
Extreme: February 36°C
(This was on February 12th when outside it was -20°C and inside it was +16°C!)



Other than double recording the inside humidity, we made one further mistake with the installation of the temperature sensors: We loosely plugged the hole used for the probe of the outside temperature logger with a rag to try to prevent the air temperature from outside affecting the inside logger. This was a mistake because plugging the hole prevented the solar air fan from venting the moisture from the hut over the summer. By the time fall came around, the mould had progressed quickly and was rampant through the hut loft. We organized a "splishin' and a splashin'" workhike to do a deep scrub of the hut. So far, the hut has stayed mostly clean and mould free. Who knows what's going on behind those panels though…

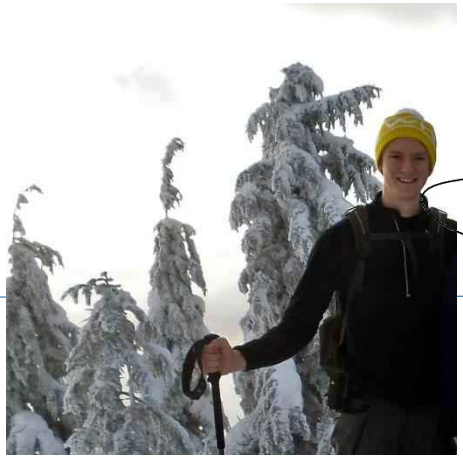
Last year we sent a letter to MEC with a request for them to lift their prohibition on us having a wood stove at Brian Waddington Hut. This prohibition was part of a condition for a grant that the VOC received back in 1998 that helped us finish the hut by funding a helicopter to fly in the final few pieces. In September, the CEO, David Labistour, lifted the prohibition and has thus allowed us to make a final decision to proceed with a high-efficiency wood stove. Over the next year, we will be applying for a grant from MEC to help us fund this project and finally provide the hut with the heating and mould protection that it so desperately needs.

Harrison Hut has been relatively quiet this year in terms of hut maintenance. After the big project in 2017, the hut is in great condition and is a great place for both winter and summer backcountry recreation. Unfortunately, it still hampered with access issues. This past year, gates were installed along the Lillooet South FSR and was timed with the completion of that road's extension all the way to the hot springs. The 2km gate (top photo) is locked April 1st to June 15th and September 16th to November 30th annually to protect bear habitat since these times of year are most important for them food wise. The 23km gate (bottom photo) is locked permanently due to the increasing landslide hazard past it. This gate is before the road turn-off to the VOC's Harrison Hut Trail and it's now a 7km hike on the logging road just to get to the start of the trail. Alternatively, one could hike 10km along the new road and end up at the halfway mark of the VOC trail. The trail was built by many VOCers (namely Ben SP, Christian V, Jeff M) and was supported by MEC through a few grants and so it's disappointing to see one-half of the trail now inaccessible. On the other hand, the new road does provide some recreation opportunities, namely bike packing and ski touring. From the 2km gate one can reach the half-way mark of the trail by bike in roughly 4-5 hours. If the 2km gate is open, then it's even quicker at about 1 hour. For ski touring, the road is a safer and easier route than through the valley bottom where there are creek crossings and exposure to overhead avalanche hazards. Access to the hut from the half-way point by skiing is a challenge however as it was designed as a hiking trail and not a skinning trail. In the future, this might be a project that someone may want to tackle. Harrison Hut is a beautiful location with many great opportunities for ski mountaineering and it would be of great service to the community to have better ski access.

Burton Hut has been quiet this year. A warm January made many of us fear that Garibaldi Lake would not freeze at all. This uncertainty hampered our ability to plan Sphinx Camp with many VOCers making plans to head inland in search of better snow rather than chance it with Burton. Hopefully this is an anomaly and not a trend, as climate change makes me fear. Burton this year also has had a new cash box installed courtesy of Jeff Mottershead, and the door hinges on the outhouse fixed courtesy of Krista Cawley and her kayaks. Roland Burton, the huts namesake, also built his signature solar lighting set-up as a gift for the huts 50th anniversary. It was installed by Ross Campbell. This summer and winter the VOC will have trips to celebrate the huts legacy and the profound impact that Sphinx Bay and Sphinx Hut has had on our club.

In the community, the VOC continues to provide feedback and support initiatives that share our mission for encouraging self-propelled environmentally conscientious backcountry recreation. The VOC has taken a step back from Lizzie Creek Cabin and we will likely continue this path for the foreseeable future. We will however continue to support the maintenance of the trail for both summer hikers of the Stein Valley Traverse and for winter skiers in the Lizzie Creek drainage.

2018 has been a great year of progress in the realm of VOC Huts, with outhouses, helicopters, firewood, solar lighting and the many countless small volunteer efforts made by both the community and VOC members. Without such a supportive community, these huts would not be nearly as valuable as they are now, and we are grateful for everyone who volunteers their time or continues to contribute financially to these wonderful places of recreation. Thank you to everyone and I look forward to seeing you all out on the trails through 2019.



George Hill

Huts Coordinator Alumni, The Varsity Outdoor Club of the AMS

EXECUTIVE SUMMARY

This is the VOC's second annual Hut Management Plan. The document initially began as the management plan for just one our huts, the Julian Harrison Hut, and was included as part of its decadal tenure renewal, the most recent renewal being last year in 2017. The intent of this management plan is to provide a comprehensive vision for the management of each of the Varsity Outdoor Club's backcountry huts. Our aim is to protect the historical values of each hut, conserve the natural environment in their surroundings, and to coordinate public use and enjoyment.

This document describes the policies that the VOC follows for the management of all our huts. The key recreation principles describe the overarching goals of the VOC in regard to the huts and how the VOC envisions them to be used. The environmental policies describe the VOC's effort to integrate the huts into the backcountry environment with as little negative impact as possible. The visitor policies describe how the VOC aims to create an enjoyable experience for all users and maintain awareness of the condition and the use of our facilities. Stakeholder policies describe how the VOC aims to engage with community in its active management of our facilities.

In the hut details section of this plan, information on the tenure locations, annual and average hut usership, geography, hut history and the hut facilities are described. Where available the old tenure locations are included alongside the new or the future proposed tenure polygons. The future tenure polygons were surveyed in 2017 by George Hill. When tenures are due for renewal this plan may be used to update the tenure polygons. The plan additionally contains two appendices that include formal CAD drawings for hut dimensions, site plans and layouts.

The hut conditions and integrity section of this plan describes the key components of a hut and their importance for maintaining in good condition. Thereon it describes the status of each of these components. This status is up to date as of March 30th, 2019. This section will be updated annually to reflect the changes made to each hut over the next year.

The implementation plan takes into consideration the hut conditions and integrity and formulates a list of action items that need to be completed in order to bring each component of each hut up to a good status. These action items also describe the status and the policy that is relevant for supporting each action. At year-end the status of each of the action items are re-evaluated and completed action items are dated and moved to the completed action item appendix. New items are added to the implementation plan each year as issues arise.

This management plan is published March 30th annually.

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PART 1 INTRODUCTION

1.1 Introduction

1.1.1 Objective of the Plan

The objective of this plan is to provide a comprehensive vision for the management of each of the Varsity Outdoor Club's backcountry huts that protects historical values, conserves the natural environment, and coordinates public use and enjoyment. Fairness, equality, and conservation shall guide all objectives and policies of this management plan.

1.1.2 Public Comments on this Management Plan

On March 28th, 2019 members of the Varsity Outdoor Club were invited to comment on this management plan.

1.1.3 Overarching Recreation Philosophy

The overarching recreation philosophy of this plan aligns with this commitment and further delineates that impacts to the natural environment and fragile arctic ecosystems be minimized with respect to all policies outlined within this management plan.

1.2 Organization

1.2.1 Mission

The Varsity Outdoor Club seeks to encourage self-propelled and environmentally conscientious wilderness adventure, education and sustainability for both its members and the community.

1.2.2 Description

The Varsity Outdoor Club, established in 1917 is a nonprofit student club, and a subsidiary of the Alma Mater Society (AMS) of UBC. The AMS is a registered Society under the BC Society Act (documentation can be provided upon request). The VOC has approximately 900 members per year.

1.2.3 Organization Objectives

1. Teach beginners key outdoor skills such as navigation, belaying, self-arresting, and travel on snow. The VOC owns equipment that beginners can borrow to try new outdoor sports.
2. Be stewards of the backcountry through participation with the Federation of Mountain Clubs, and maintenance of backcountry huts and trails. By improving access to established backcountry recreation areas, the VOC aims to help people to learn to appreciate nature and conserve wilderness.
3. Facilitate networking between outdoors enthusiasts of all levels through frequent slide shows, informal teaching trips, barbecues, and other social events.
4. Facilitate information sharing through our wiki page and message board.

1.3 Management Framework

The Varsity Outdoor Club's seeks to maintain good legal standing with all VOC Huts through Community Facility License of Occupation Tenures granted by the Provincial Government of British Columbia. The VOC's role is to ensure the implementation of this management plan is in line with the objectives, philosophies and policies presented in this document. The table below shows current and past Tenure numbers of this site that are known to the VOC for each Hut:

Hut	File	Licence	Term	Start Date	End Date
Brew Hut	2400607	242022	30-year term	June 8th, 2012	June 8th, 2042
Brian Waddington Hut	2410051	241077	10-year term	July 8th, 2009	July 8th, 2019
Julian Harrison Hut	2401192	243397	10-year term	May 15th, 2017	May 15th, 2027
		240245	10-year term	May 15th, 2007	May 15th, 2017
		238705	3-year term	January 19th, 2004	May 15th, 2007
		235440	10-year term	January 19th, 1994	January 19th, 2004
Roland Burton Hut		BC Parks MOU			

1.3.1 Decision Making Process for Management of the Site

The Provincial Government of British Columbia, and/or any of the relevant subsidiaries such as BC Parks, is responsible for the approval of this Management Plan as submitted by the Varsity Outdoor Club with each Community Facility License of Occupation Tenure Renewal Application or Memorandum of Understanding (MOU). Activities within the tenure or MOU boundaries shall be managed in accordance with this plan and will be authorized by the Varsity Outdoor Club President and Huts Coordinator. When preparing changes to this management plan, stakeholders shall be given opportunities to participate and provide comment.

1.3.2 Collaborative Partnerships

For many years the Varsity Outdoor Club has partnered with various organizations such as Mountain Equipment Co-op, the Federation of Mountain Clubs of British Columbia, the UBC Sustainability Fund, BC Parks, BC Rec Sites and Trails and the British Columbia Ministry of Forests, Lands and Natural Resource Operations. These collaborative efforts have allowed the VOC to expand community access to backcountry areas, re-establish access routes that might have been previously lost, construct new backcountry huts, advocate for the development of responsible land use management plans, and provide education to the members and the public on backcountry recreation. These collaborative partnerships provide valuable support to the VOC for implementing this management plan. With immense gratitude the VOC thanks all past partners.

PART 2 MANAGEMENT POLICIES

2.1 Management Policies

2.1.1 Key Recreation Principles (K)

Policy (K1) Site management will encourage environmental conscientious activities.

The Varsity Outdoor Club seeks to encourage self-propelled and environmentally conscientious wilderness adventure, education and sustainability.

Policy (K2) Site management, where possible, will seek to increase backcountry safety through education.

Where possible, management decisions will be made such that backcountry safety through education is promoted. This can include keeping accurate and up to date records of the site, having maps and guidance resources available to users (at the VOC Clubroom, the VOC Website or at the Hut) and through the promotion of community dialogue.

Policy (K3) Backcountry safety and recreation is conducted by the adventurist.

Management decisions, although promoting backcountry safety through education, are not responsible for actions taken by individuals in their own pursuit of backcountry recreation.

2.1.2 General Site Management (G)

Policy (G1) Site management will work towards the long-term conservation of sites.

Harrison Hut, Brian Waddington Hut, Burton Hut and Brew Hut have been designed to withstand the adverse environmental condition experienced at each site. Management plans will seek to conserve the historical states of each Hut while ensuring that each Hut meets the key recreation principles. All management documents will be conserved and archived for future management guidance.

Policy (G2) Site management, will hold the safety of site user's paramount to key recreation principles.

The VOC, through this management plan, will seek to maintain site facilities such that the facilities adequately and reasonably protect its users from hazards and harm. Such activities include discouraging use of flammable liquids, ensuring the adequate maintenance of wood stoves and chimneys, ensuring the structural stability of facilities, and providing route finding knowledge. Due to the dispensable nature of emergency food, first-aid equipment, and fire extinguishers, the VOC cannot guarantee these resources will be available.

Policy (G3) Site monitoring will be conducted regularly.

The VOC, through this management plan, will regularly assess the condition of site facilities for compliance with this management plan. Such activities include annual workhikes to provide previously assessed improvements and gather information on further site conditions that need to be addressed.

Policy (G4) Burton Hut Memorandum of Understanding (MOU) and liability release.

Burton Hut resides within Garibaldi Provincial Park which is managed, operated and leased by BC Parks. MOU and Liability Agreement between BC Parks and the VOC

2.1.4 Environmental Protection (E)

Policy (E1) Management will comply with provincial acts and regulations for environmental protection.

This management plan will make decisions in compliance with provincial environmental acts and regulations such as the BC Forest and Range Practices Act (FRPA) section 46 for management decisions made irrespective of location.

Policy (E2) Environmental impacts will be avoided or minimized.

Management decisions will seek to avoid or minimize environmental impacts resulting from those decisions. Such decisions include the determination of hut locations, trail locations and outhouse locations; the proper signage and notices advising users of environmentally sensitive areas; the promotion of sustainable energy sources; the reduction of waste and pollution and; the prevention of the interaction of fauna with human facilities. These decisions will be made under the guidance of the Ministry of Forests, Lands and Natural Resource Operations and Rural Development (MFLNRORD) or BC Parks where applicable.

Policy (E3) Burning shall only be permitted in designated locations when permitted by provincial regulation.

For the protection of the sensitive alpine environment around hut sites, burning is only permitted within provided wood stoves. The VOC will pursue opportunities when possible to notify users of provincial fire bans and restrictions. Burning is not permitted at any time at Burton Hut or Brian Waddington Hut.

Policy (E4) Only deadfall or dead-stand timber shall be permitted for burning.

For the protection of the sensitive alpine environment around hut sites, only deadfall or dead-stand timber shall be permitted to be burned. Deadfall timber should be prioritized over dead-stand timber where possible. Chopped wood may be hiked/sledded/helicoptered into sites if, and only if, the wood has been sustainably sourced in accordance with FRPA Section 52.

Policy (E5) Human waste facilities will be designed for the best possible reduction in environmental impact.

To encourage decomposition, toilet paper shall be burned in a separate fire safe container before being either deposited into the pit, carried out, or buried in a separate environmentally safe area that will reduce the environmental impact of the waste. Outhouses will strive for human waste only and will be located to minimize seepage and encourage rapid decomposition. Pits, when full, will be emptied or decommissioned for the best possible decomposition of the waste and for the minimization of the environmental impacts. All human waste facilities will be adequately secured against intrusion by local wildlife.

Policy (E6) Zero-waste policy. "If you bring it in, pack it out."

Without first the express permission of this management plan or the VOC, no natural or human produced materials may be left at the site. This includes food, plastic wrapping, cans, bottles, fuel, appliances, tools and other garbage. There are three exceptions: (1) Wood brought in for burning may be left in the appropriate location indicated by the VOC. (2) In extenuating circumstances where human life is endangered through continued adherence to this policy. (3) Where workhikes are conducted with a helicopter, garbage extraction may be staggered for extraction on the next workhike requiring a helicopter.

Policy (E7) Campfires are prohibited

Campfires are not permitted at any time within the Hut Tenure polygon or within a 100m radius of the Hut. The VOC additionally actively discourages campfires within the larger backcountry areas surrounding the VOC Huts.

2.2 Management of Human Uses

2.2.1 Visitor Management (V)

Policy (V1) VOC Huts are classified as emergency shelters. "There is always room for one more".

As emergency shelters, no visitor shall be turned away or forbidden from taking shelter in a VOC Hut or at the any VOC tenured site, unless said user is endangering the safety of fellow visitors.

Policy (V2) The VOC reserves the right to request priority for visitation space at VOC Huts.

As the enforcer of this management plan and the owner of facilities located at each site, the VOC reserves the right to request priority for visitation space at each Hut if made at least one month prior to the trip. For requests closer than one month, the request must be reasonable, timely and not push an unreasonable number of people out of the hut due to the hut's physical limitation of space. This does not apply to comfort limitations on space. If a VOC request is made prior to public sign-ups whether on official or non-official trips, that request will be given priority. This policy will not contravene policy (V1).

Policy (V3) Donations for the continued maintenance and management of the site are encouraged.

The management of backcountry huts can be a costly endeavor. The VOC kindly requests that public users contribute to the management through a $10/night donation for Brian Waddington Hut, Brew Hut and Harrison Hut. VOC members contribute directly to the management of VOC managed backcountry huts through their membership fee (as of 2018, $40 for student members and $60 for associate members). VOC Okanagan (VOCO) members, do not contribute through membership fees to VOC Huts. VOCO members may contribute by purchasing an Annual Huts Pass from the VOC for $10 or as regular members of the public. Annual passes expire Sept 1st.

Policy (V4) Donations for Burton Hut and Garibaldi Provincial Park wilderness camping permit fees.

All persons completing an overnight stay at Burton Hut must have a Garibaldi Provincial Park wilderness camping permit. As of 2018, the permit is $10 per night per person with a $6 per night per group reservation fee. The reservation fee caps at 3 nights. This fee is payable through BC Parks Discover Camping online reservation service. In recognition of the increased costs borne by Burton Hut visitors the VOC kindly requests a $5/night donation instead of the donation recommended in Policy (V3).

Policy (V5) Visitor access will be recorded and visitor impacts monitored.

Visitor usage of the site will be recorded with the best reasonable methods possible. Registration for visitation of each hut is encouraged to coordinate shared use of the facilities. Impacts by visitors will be annually monitored and acted upon in accordance with this management plan. A User is an individual person who is using the hut. A User Night is the number of nights one user spends at the hut. A Night is the number of unique days in the month that the Hut was occupied. The occupancy rate is the percentage of nights within a month that a hut had a least one visitor.

Policy (V6) Authorized commercial, governmental and non-government activities will be permitted.

If commercial, governmental or non-governmental use of the site is desired, the activities must be in accordance with federal and provincial law, this management plan, and with the acting VOC President.

Policy (V7) Winter air access to Harrison Hut will be permitted if, and only if, there are no concurrent non-motorized visitors.

Due to the extremely remote and difficult nature of accessing the hut in winter, the VOC accepts entry and exit access to the hut by helicopter in the winter months only. This is the only instance of motorized access at any of the VOC huts which the VOC accepts. A visitor is only permitted to follow this policy if, and only if, there are no non-motorized travelers concurrent to the air access trip. In all instances, the non-motorized visitor shall take priority over the air access visitor. All visitor following this policy must register using the VOC Hut Registration System and include the full details of how many are in are visiting, the dates and times of helicopter access, contact information, and the company used. The VOC requests visitors accessing the hut by helicopter bring firewood with them if they intend to use the wood stove to reduce consumption of firewood collected from the treeline area and thereby reducing environmental impacts on the alpine ecosystem. If there are ANY conflicts as a result of motorized users willfully abstaining from the procedures set out herein, the VOC will not hesitate to amend this policy to prohibit all motorized access, including air access.

Policy (V8) Dog guidelines for VOC huts.

Small spaces, food, copious amounts of people, and dogs don't fit so well together. The VOC asks hut users to follow the following four guidelines: (1) Register themselves and their dog on the VOC Hut Registration Board, (2) At least one week prior to their trip, communicate with all other registered users, respect their wishes in the case that those other users are not okay with having a dog around the hut. (3) Dogs should not be inside the hut. Under NO circumstance should a dog ever be in the loft. (4) Follow good dog etiquette practices for the backcountry: https://www.backpacker.com/skills/the-manual-take-your-dog-hiking

Policy (V9) The VOC will provide and encourage use of a registration system for visitors to coordinate hut use.

The VOC encourages everyone visiting one of the VOC Huts to submit a registration on the VOC Hut Registration wiki page. By registering, the possibility of large groups running into each other is reduced, communication is improved, and adherence to these management policies is facilitated. Registrations do not give any group priority to use the Hut.

Policy (V10) Registrations for Brew Hut will be permitted no earlier than one month in advance of the trip start date.

With the high popularity and moderate size of Brew Hut, the VOC strives to provide the public, club members, and students fair opportunities to visit the hut. Registrations for Brew Hut will be open for registering trips with start dates 6 weeks in the future beginning on the 1st and 15th of every month. Open and closed registration dates will be posted and will automatically update. The VOC will delete registrations for trips posted prior to opening. For VOC official trips, the VOC may contravene this policy in accordance with Policy (V2).

2.3 Public Awareness and Support

2.3.1 Implementation and Consultation (P)

Policy (P1) Stakeholders should be encouraged to contribute.

Any stakeholders are encouraged to contribute to the development and the active implementation of this management plan.

Policy (P2) Progress on the implementation of this plan will be reviewed yearly.

This management plan will be reviewed yearly and published within the club and available to the public no later than May 5th of each year. This plan, and a Huts and Trails Financial Report will be presented at VOC AGM annually.

Policy (P3) First Nations will be consulted and accommodated where required.

The VOC will follow federal and provincial protocols for First Nation consultation and accommodation wherever there are potential impacts to Aboriginal rights and title.

PART 3 HUT SITE DETAILS

Brew Hut

Photo: Duncan Sadava, 2017

3.1 Brew Hut

3.1.1 Location

Brew Hut is located by Mount Brew on the Cheakamus-Squamish divide, 30km north of Squamish. A surveyed site map to scale is attached in APPENDIX A: HUT SITE PLANS.

3.1.1.1 Structure Coordinates

The following table lists specific point features around Brew Hut.

	Structure	Latitude °N	Longitude °W	Elevation
»	Brew Hut	50.04006	123.19111	1686m
»	Woodshed	50.03998	123.19117	1686m
»	Outhouse Waste Area	50.04027	123.19115	1683m
»	2018 New Outhouse	50.04019	123.19093	1684m

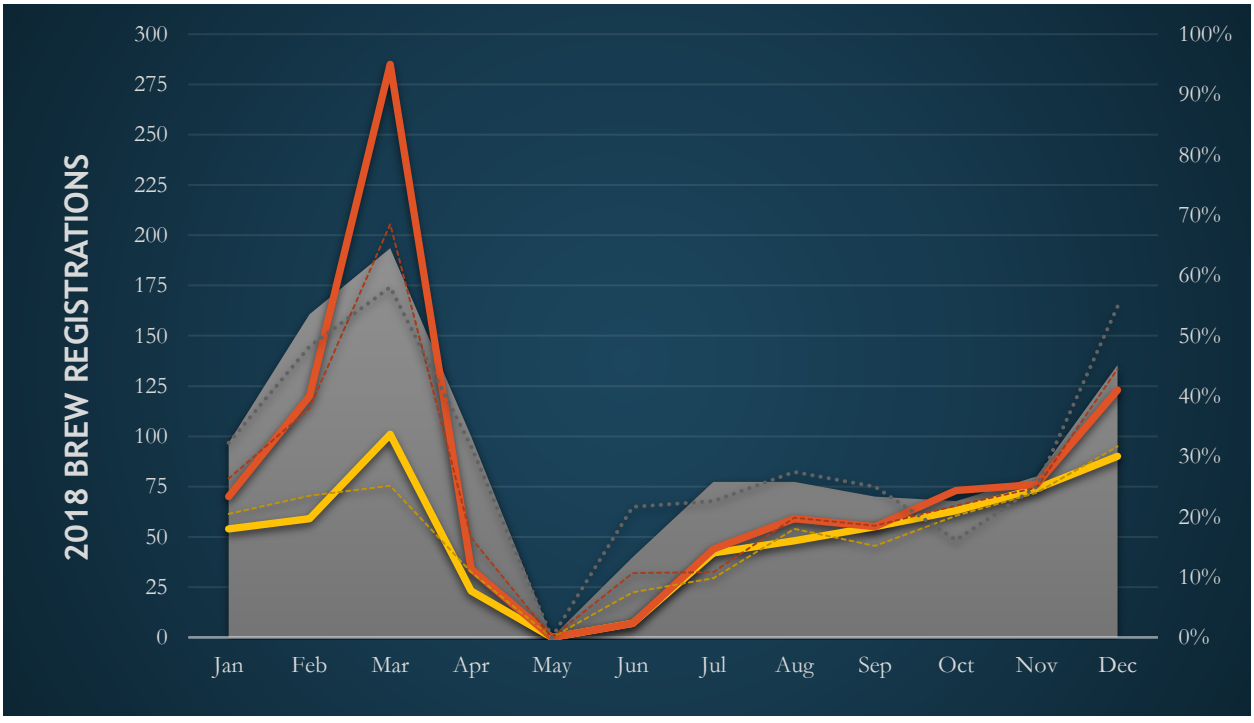
3.1.1.2 Tenure

Brew Hut was renewed for a 30-year Community Facility License of Occupation in 2012.

Tenure	2012		2042 (*proposed*)	
Vertex 1	50.04030	-123.19118	50.04031	-123.19139
Vertex 2	50.04048	-123.19118	50.03986	-123.19139
Vertex 3	50.04048	-123.19090	50.03986	-123.19069
Vertex 4	50.04030	-123.19090	50.04031	-123.19069

3.1.2 Usage

In 2017, registrations made for VOC Huts began to be recorded monthly. Orange is user nights, yellow is unique users, and grey is monthly occupancy. Definitions can be viewed in Policy (V5). Solid lines indicate the current year data and dashed lines indicate the running average up to and including the current year. The complete archive can be viewed at https://www.ubc-voc.com/wiki/VOC_Hut_Registration_Archive.



3.1.3 Geography

Brew Hut sits at 1686m on the col of a mellow ridge just south of Mount Brew. The col is generally treeless, however the peak of Brew and a small peak to the south of the Hut both maintain alpine stands. The area is considered to be at treeline. The alpine environment supports a variety of animal and plant life. Some of these animals include grizzly bears, black bears, mountain goats, lynx, deer, wolves, marmots, pikas and a variety of birds. Plant life in the alpine is abundant but fragile. The growing season is short and plant life develops slowly.

The col is very rocky and has little to no topsoil. Rocky locations can be environmentally beneficially for hut sites as users are kept away from fragile alpine meadows. However, rocky locations can also present challenges for outhouses as pits are difficult to maintain and there is less biological waste degradation.

As the hut sits on a ridge, on a clear day the hut is exposed to the sun from sunrise to sunset at all times of year making the location ideal for capturing solar energy.

3.1.4 Historical Context

The first incarnation, Brew Hut I, was built by the Varsity Outdoor Club in 1982 at the outlet of a small lake. This location was unsuitable, and the hut was destroyed by heavy snow accumulation in its first year. What was left of the hut was taken apart the next summer and helicoptered to its second location and rebuilt in 1984, atop a ridge above the lake. Since some pieces were damaged, Brew Hut II ended up being slightly shorter than the original. It was expected that the ridge location would protect the Hut from snow damage, but snow accumulated at the new location to an alarming degree because of a line of trees acting as a snow fence beside the hut.

The original Brew Hut I, under construction in 1982. The Hut was destroyed by snow creep

Brew Hut II was rumored to be lost for several years. Nobody seemed to know exactly where it was. Winter ski trips to the area were not able to find the hut. Heavy snow burying the hut and confusing terrain in the area are the suspected causes. It was only the rise of GPS technology that really allowed Brew Hut II to become accessible again.

Brew Hut II was damaged during the winter of 1998-1999. In the Spring of 1999, snow depth was two meters over the roof top, and though the hut was found it was too much work to dig down to use it. When it finally melted out it was found to be a bit crushed by the snow, but still useable. A new location with much less snow accumulation was identified later that summer, a few hundred meters west of the present hut.

In the fall of 2002, a work party went in with the intention of dismantling the hut, but ended up just making modifications, reinforcing some of the cracked beams on the upper floor. Some scrap material from around the hut was moved to the new hut site, and a small structure was erected to further test the effect a structure would have on wind transport at this site. This structure was named micro-brew in light of its diminutive size and the popularity of Granville Island Pale Ale among the builders.

In April of 2003, a party visited the area only to find Brew Hut II buried up to the top of the roof. The hut was located only by the 2x4 pole sticking out of the snow. Nearby, the micro-brew structure was relatively snow free, and still easily visible despite being only 1/4 as tall as the Brew Hut.

In the spring and summer of 2005, Brew Hut III was constructed. Foundation work started in May, and construction carried on through the summer and into the fall. In 2006, an outhouse and woodshed were added being constructed from the remains of Brew Hut II. Since 2006, renovations on the hut have kept it in good condition. In 2017 the VOC, with the support of the UBC Sustainability Fund, installed a small solar panel that can now power a single LED light via a one-hour timer switch. In 2018, a new outhouse with an above ground solid storage unit and a mechanical unit that separates solids and liquids was constructed just west of the old site with the old outhouse superstructure being reused. A new commercial polystyrene insulated door and accessories were also installed.

3.1.5 Structure Details and Facilities

Brew Hut is a newfoundland style hut built with glued laminated timber columns and aluminum cladding. Full dimensioned as-built drawings of Brew Hut and the outhouse have not been completed but are being worked on for the 2020 Hut Management Plan. When finished, they will be attached in APPENDIX B: HUT DIMENSIONS. The table below shows hut facilities.

Heating	Steel Wood Stove
Lighting	Solar LED Lighting (8 AA Panasonic Re-Chargeable Batteries, 10W Solar Panel, 2W LED Light)
Cooking	One 2-Burner Coleman White Gas Stove
Fire Safety	Two Fire Extinguishers
First Aid	Spine Board
Sleeping	Loft and downstairs benches. No sleeping pads.
Capacity	Nominal: 16 persons Tight: 22 persons
Drinking water	Pond or Snow from West side of Hut
Human Waste	Wood Outhouse (Built 2018) N of Hut Mechanical Solids-Liquids Separator (Edward Lim)
Greywater	Discard to the East side of the Hut
Garbage	No Garbage as of September 2018

Brian Waddington Hut

Photo: Nathan Starzynski, 2012

3.2 Brian Waddington Hut

3.2.1 Location

Brian Waddington Hut on Phelix creek near Mount Shadowfax in the Cadwallader Mountain Range, 35km NNE of Pemberton. A surveyed site map to scale is attached in APPENDIX A: HUT SITE PLANS.

3.2.1.1 Structure Coordinates

The following table lists specific point features around Brian Waddington Hut.

	Structure	Latitude °N	Longitude °W	Elevation
»	BWH SE Corner	50.63053	122.67984	1708m
»	Outhouse SE Corner	50.63048	122.68025	1711m
»	Water Source	50.63034	122.67984	1705m
»	2019 Proposed Woodshed	50.63045	122.67994	1709m

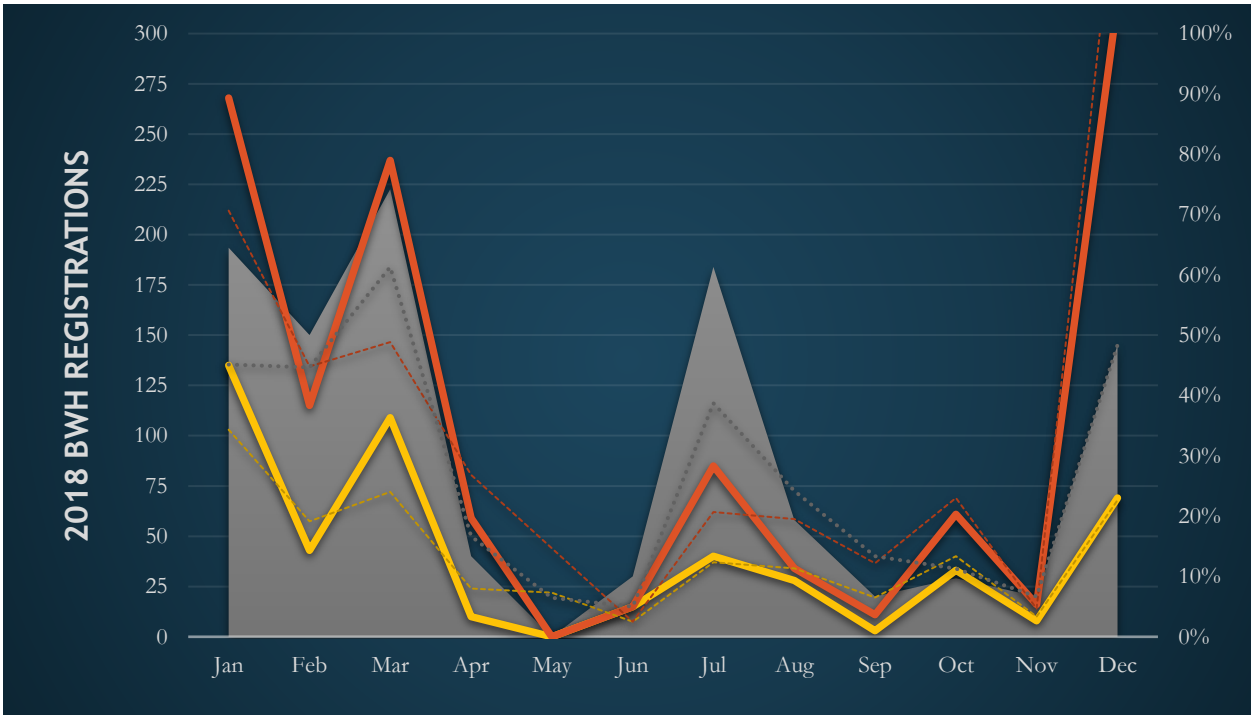
3.2.1.2 Tenure

Brian Waddington was previously governed through a NRT. In 2009, the Hut was renewed under the now standard community facility license of occupation. The tenure boundaries are shown in the table below.

Tenure	2009		2019 *(proposed)*	
Vertex 1	50.63052	-122.67995	50.63072	-122.67939
Vertex 2	50.63070	-122.67995	50.63036	-122.67939
Vertex 3	50.63070	-122.67967	50.63036	-122.68038
Vertex 4	50.63052	-122.67967	50.63072	-122.68038

3.2.2 Usage

For comprehension details, see 3.1.2 Usage and Policy (V5). Orange is user nights, yellow is unique users and grey is occupancy. Solid lines show the values for the current year. Dashed lines show the average.



3.2.3 Geography

Brian Waddington Hut sits at 1715m in the Phelix Creek valley at the north end of a long lake. Marshy and meadow conditions exist close to the lake with meadows and treed areas surrounding. Ground conditions near the hut consist of a thick layer of soft peat. The environment supports stands of alpine Aspen trees that have long growing cycles.

Like Brew Hut, the alpine environment supports a variety of animal and plant life. Some of these animals include grizzly bears, black bears, mountain goats, lynx, deer, wolves, marmots, pikas and a variety of birds. Plant life in the alpine is abundant but fragile. The growing season is short and plant life develops slowly.

The soil conditions are idea for outhouse management as deposited material more easily decomposes in the more biologically active soils. Additionally, digging pits of adequate capacity can be reasonably achieved.

3.2.4 Historical Context

The hut was erected in the Summer of 1998. The structure was donated by the worker's compensation board as part of their retraining program for injured workers. The VOC and MEC together paid the helicopter costs to fly the cabin in to the site. The frame of the cabin was prebuilt, flown in 3 pieces and then assembled on site. The hut is within the LRMP special zoning, RA1-A (non-motorized, with air access).

The Hut under construction in 1998.

The idea for a cabin in the Phelix Creek area began in 1994-5 and was helped to fruition by leftover funds from the late VOC Whistler Cabin, a keen VOC president (Blair Hammond) and offer by the worker's compensation board to supply and build the cabin with the VOC taking responsibility for transporting the cabin to the site. In 1997, the pre-construction frame (12,000 lbs) was flown in using a Skycrane. The next spring with the help of an MEC Environment Fund Grant, the last helicopter lifts flew in and the hut installation was finished. As a part of the grant MEC stipulated the hut would not have a wood stove if they were to supply the grant and so to this day, Brian Waddington Hut is one of the few, if not the only alpine hut in the south coast without any form of heating.

In 2007, a new trail was built up the west side of Phelix Creek. This new trail eliminated the two creek crossings and combined the winter and summer access routes into a single trail. Unlike the previous trail, this one was formally approved by the provincial government.

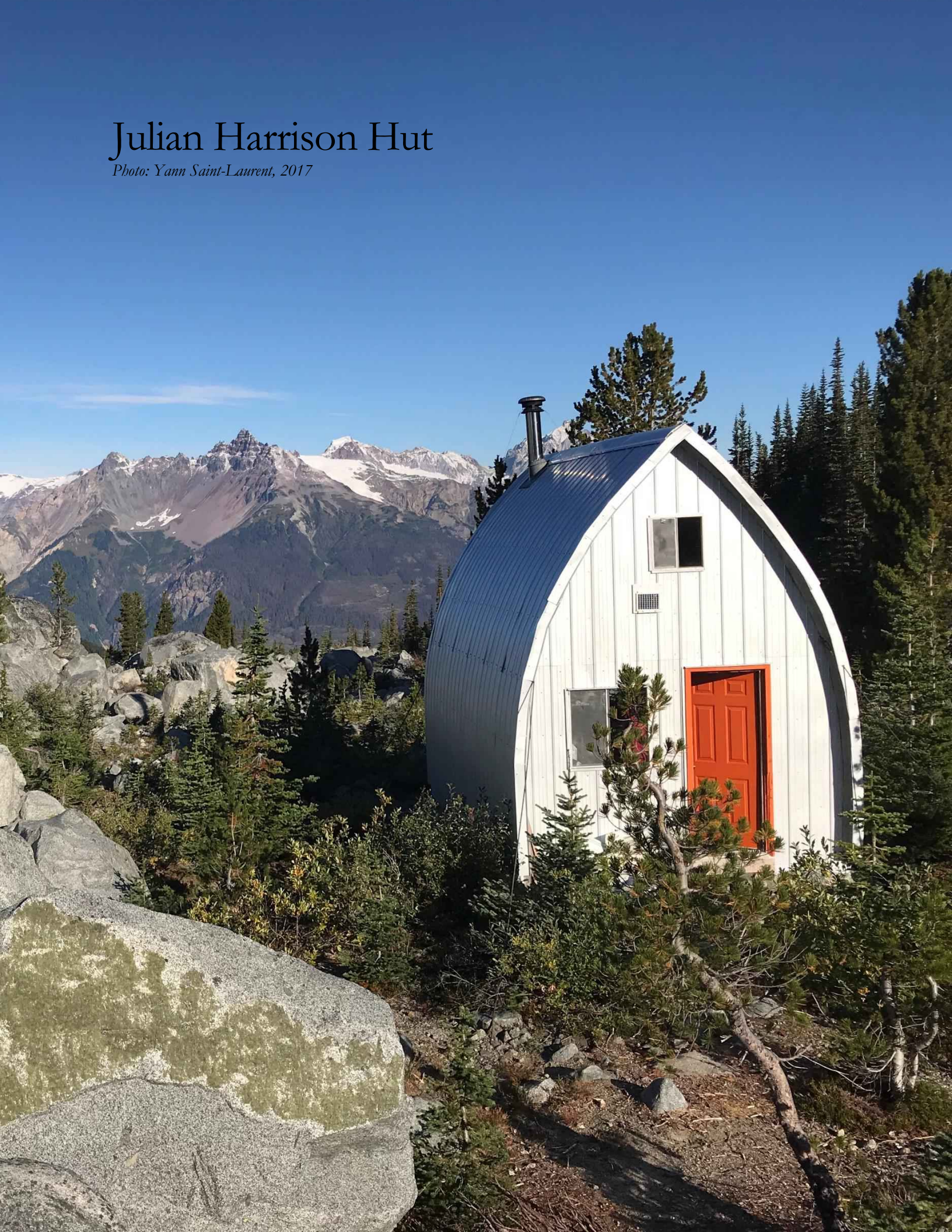
3.2.5 Structure Details and Facilities

Brian Waddington Hut is a gabled timber frame hut built with glued laminated timber columns, wood cladding and aluminum roofing. Full dimensioned as-built drawings of Brian Waddington Hut are attached in APPENDIX B: HUT DIMENSIONS. The. The table below shows hut facilities.

Heating	Coleman Catalytic "Quick-Lite Heater" Model 518C Solar Powered Air Heater
Lighting	Coleman White Gas Lantern ("220F") Coleman White Gas Lantern ("Peak 1 EASI-LITE")
Cooking	Coleman Perfectflow™ 2-Burner Propane Stove Propane Coleman Griddle Charcoal Barbeque ("Rankam") Stovetop espresso maker, 4-6 cups A percolator (for brewing coffee)
Fire Safety	Two Fire Extinguishers (2015) both need replacing as of 2017
First Aid	Spine Board, Basic First Aid Kit
Sleeping	Open floor loft. No pads.
Capacity	Nominal: 24 persons (24 Loft) Maximum: 40 persons (31 Loft + 9 Downstairs)
Drinking water	Creek to the South West of the Hut (boil or filter). Fresh water bucket in Hut.
Human Waste	Raised Wood Outhouse.
Greywater	North East Side of the Hut. Grey water bucket in Hut.
Garbage	Few bags of garbage in the cellar that need packing out.

Julian Harrison Hut

Photo: Yann Saint-Laurent, 2017



3.3 Julian Harrison Hut

3.3.1 Location

Harrison Hut is located by Overseer Mountain as a part of the Meager Creek Valley, 50km west-north-west of the village of Pemberton. A surveyed site map to scale is attached in APPENDIX A: HUT SITE PLANS.

3.3.1.1 Structure Coordinates

There are two structures within the new tenure polygon: Harrison Hut and an outhouse.

	Structure	Latitude °N	Longitude °W	Elevation
»	Harrison Hut South Corner	50.52064	123.43193	1725m
»	Outhouse SE Corner	50.52053	123.43183	1724m
»	Water Source	50.52082	123.43140	1726m
»	Decommissioned Outhouse	50.2064	123.43231	1727m

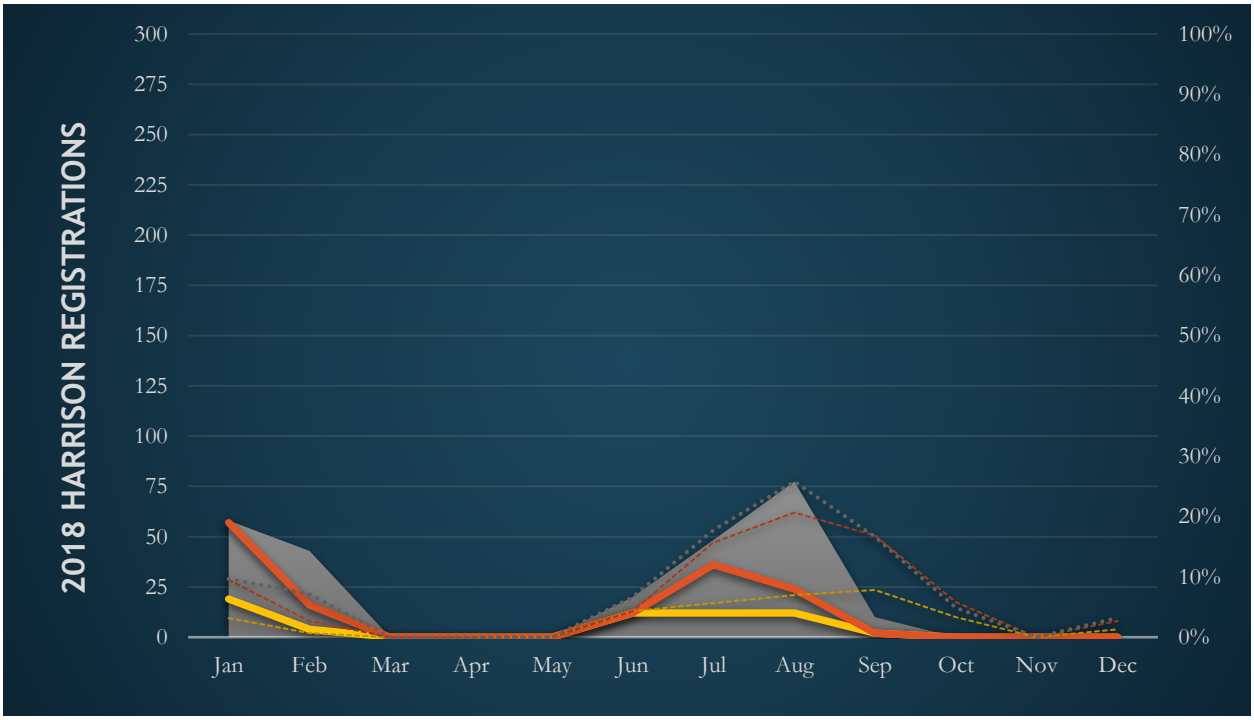
3.3.1.2 Tenure

Harrison Hut was renewed for a 10-year community facility license of occupation tenure in 2017.

Tenure	2007		2017		2027 (proposed)	
Vertex 1	50.52055	-123.43315	50.52088	-123.43221	50.52103	-123.43211
Vertex 2	50.52055	-123.43245	50.52088	-123.43151	50.52076	-123.43137
Vertex 3	50.52010	-123.43315	50.52043	-123.43221	50.52029	-123.43179
Vertex 4	50.52010	-123.43245	50.52043	-123.43151	50.52056	-123.43252

3.3.2 Usage

For comprehension details, see 3.1.2 Usage and Policy (V5). Orange is user nights, yellow is unique users and grey is occupancy. Solid lines show the values for the current year. Dashed lines show the average.



3.3.3 Geography

Harrison Hut, at 1725 m, sits at the treeline for this area. This alpine environment supports a variety of animal and plant life. Some of these animals include grizzly bears, black bears, mountain goats, lynx, deer, wolves, marmots, pikas and a variety of birds. Plant life in the alpine is abundant but fragile. The growing season is short and plant life develops slowly.

The hut site can be described as a meadow of glacial till and boulders with a few small shrubs and trees. A tributary to Barr Creek runs past the Hut on the north side separating the glacial outwash meadow and alpine forest meadows.

3.3.4 Historical Context

Harrison Hut was built in memorial of Julian Harrison (VOC President 1973-1974) who was tragically killed in an avalanche in California that same year. Thirty VOC volunteers contributed to its erection over Thanksgiving in 1983. The location was chosen due to its relatively easy access at the time from Meager Creek Hot Springs, and the high value winter recreation around Overseer Mountain and the Pemberton Icefield.

The hut under construction at its destination. Picture taken by Jay Page.

In August of 2010 the Meager Landslide occurred and washed away the access to Meager Creek Hot Springs. The subsequent geological analyses of the Meager Creek valley showed major instabilities and therefore the Hot Springs were indefinitely closed, and the access never rebuilt. For this period, the Hut no longer had access.

In 2014, the Varsity Outdoor Club in partnership with Mountain Equipment Co-op, the Federation of Mountain Clubs of British Columbia and the British Columbia Ministry of Forests, Lands and Natural Resource Operations, worked collaboratively to re-establish access to the Hut in the form of a new 12km trail. The collaborative project-oriented partnerships formed assisted the Varsity Outdoor Club in its on-going management of Harrison Hut in accordance with this plan.

During this partnership a steel door was planned to be flown in to the Hut, but unfortunately it flew to its destination quite a bit too quickly. The door was dropped from the helicopter and damaged the door such that it never truly fit quite like a door should fit. It was also discovered that marmots had decided that the plywood glue was from the floor of the Hut was edible. When this was discovered, they had already eaten through nearly 75% of the flooring thickness. Chicken wire covering the bottom of the hut was installed as a marmot-proofing measure and has since been deemed effective at eliminating the floor as a food source. However, 75% of the floor was still gone.

In 2017, a new steel door, a new plywood floor, and a new trail bridge were built in partnership with Mountain Equipment Co-op, Richmond Building Supplies and Blackcomb Helicopters. Also in 2017, the VOC with the support of the UBC Sustainability installed a solar panel that would power a single LED light.

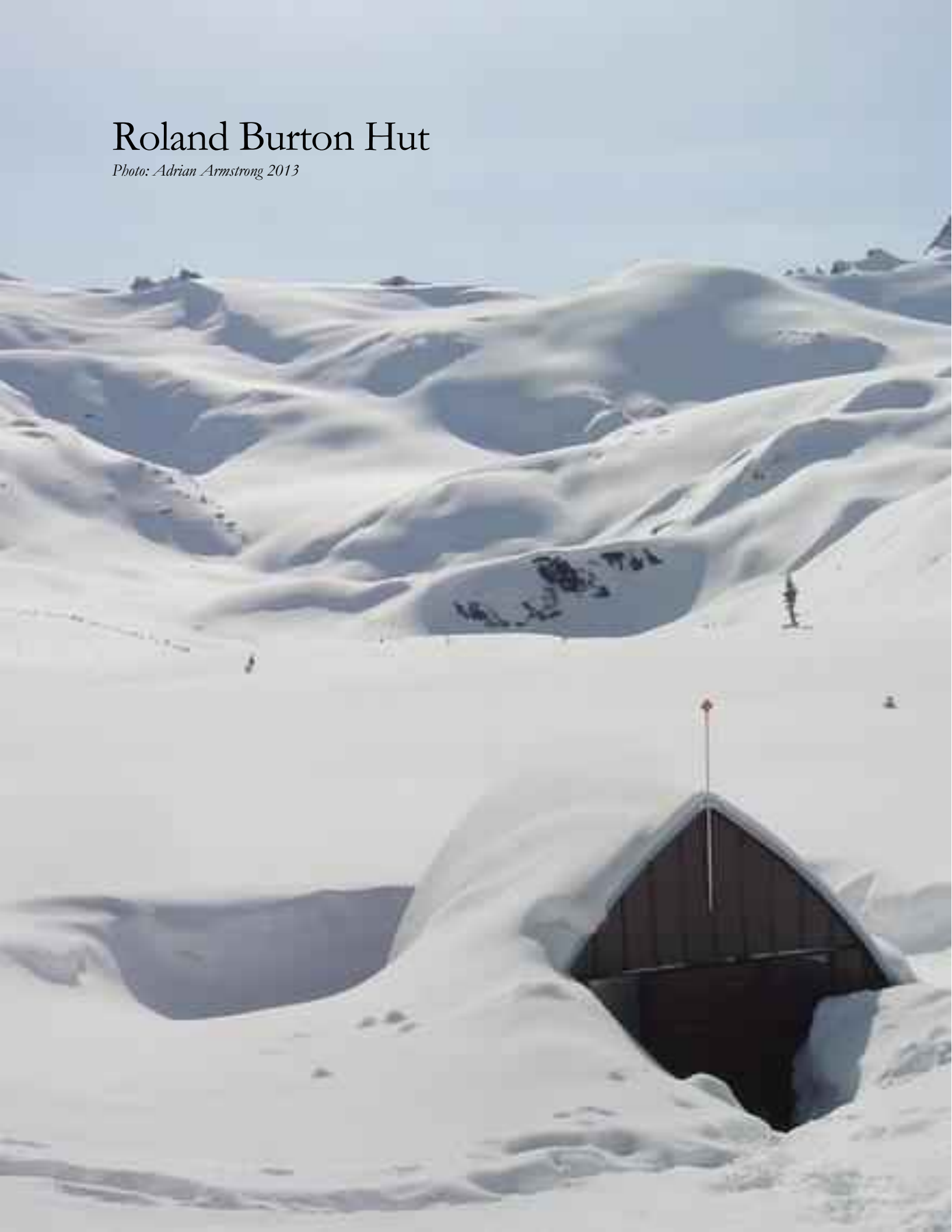
3.3.5 Structure Details and Facilities

Harrison Hut is a gothic A-frame hut built with glued laminated timber columns and aluminum cladding. Full dimensioned as-built drawings of Harrison Hut are attached in APPENDIX B: HUT DIMENSIONS. The table below shows hut facilities.

Heating	Vogelzang BX22EL Lil Sweetie Cast Iron Wood Stove
Lighting	Solar LED Lighting (8 AA Panasonic Re-Chargeable Batteries, 10W Solar Panel, 2W LED Light)
Cooking	Two Coleman White Gas Stoves One Coleman Perfectflow™ 2-Burner Propane Stove
Fire Safety	One Fire Extinguisher (1981) with good Pressure and Weight
First Aid	Neck Brace, Spine Board
Sleeping	Open floor loft. No pads.
Capacity	Nominal: 10 persons Tight: 15 persons
Drinking water	Nearby creek (boil or filter)
Human Waste	Aluminum Clad Outhouse (Built 2014) Wood Outhouse (circa 1990. Decommissioned. Scheduled for de-construction)
Greywater	Downhill of hut (North West)
Garbage	Old door and miscellaneous materials from the 2017 renovations. Old First Aid Kit

Roland Burton Hut

Photo: Adrian Armstrong 2013



3.4 Roland Burton Hut

3.4.1 Location

3.4.1.1 Structure Coordinates

The following table lists specific point features around Burton Hut. A surveyed site map to scale is attached in APPENDIX A: HUT SITE PLANS.

	Structure	Latitude °N	Longitude °W	Elevation
»	Burton Hut	49.92950	122.99349	1475m
»	Outhouse	49.92993	-122.99304	1475m

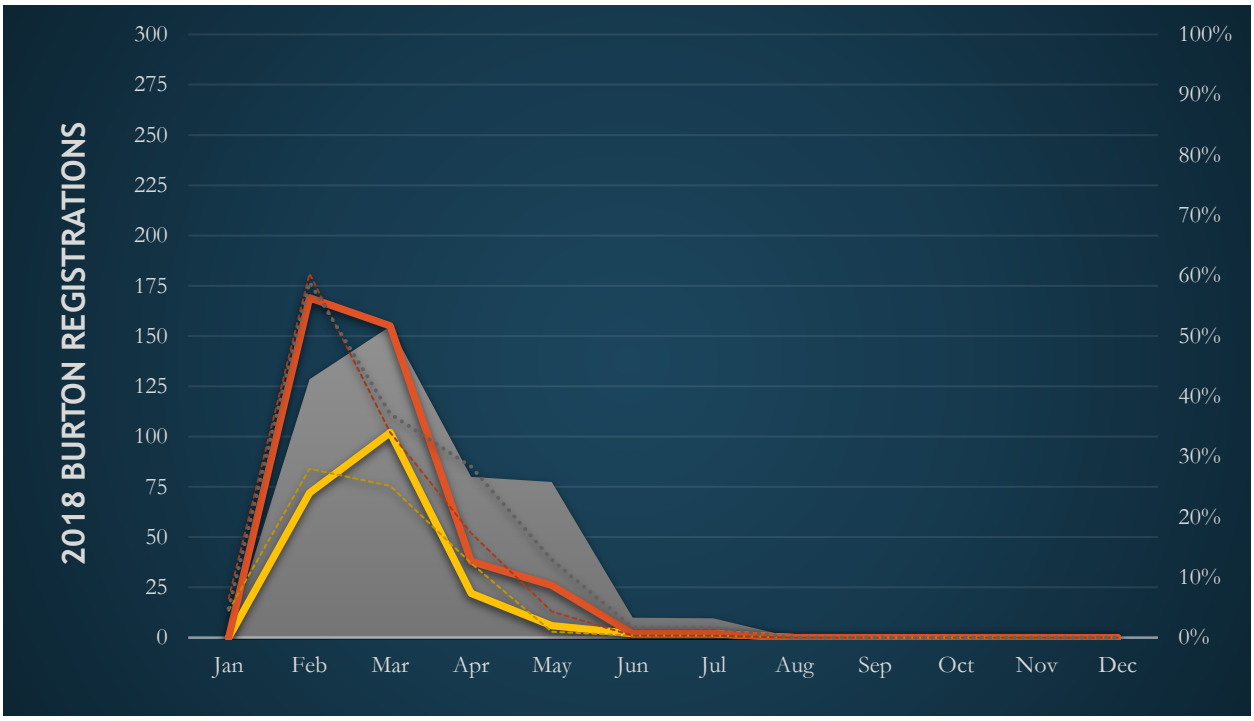
3.4.1.2 Tenure

Burton Hut lies within the BC Parks operated Garibaldi Provincial Park tenure. Burton Hut is permitted by BC Parks to reside within the following polygon as per the 2019 memorandum of understanding.

Tenure	2019		2029
Vertex 1	49.92960	-122.99347	
Vertex 2	49.92924	-122.99347	
Vertex 3	49.92924	-122.99291	
Vertex 4	49.92960	-122.99291	

3.4.2 Usage

For comprehension details, see 3.1.2 Usage and Policy (V5). Orange is user nights, yellow is unique users and grey is occupancy. Solid lines show the values for the current year. Dashed lines show the average.

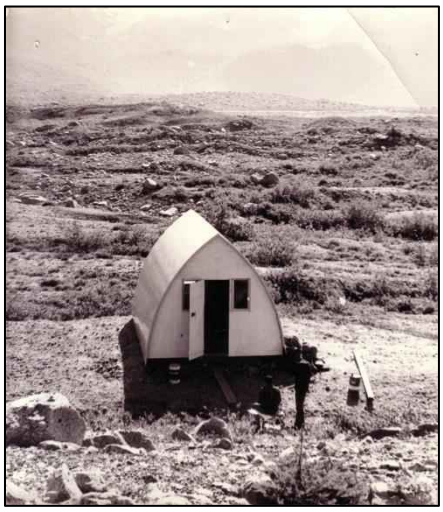


3.4.3 Geography

Burton Hut lies on the Sphinx River delta and the glacial outwash remnants of the Sphinx Glacier. The low laying areas of sphinx bay are exceptionally prone to flooding and before 2006 renovations, the Hut was subjected to annual flooding. Small trees and shrubs exist sporadically on the bay. At 1500m elevation the Hut is technically below treeline, however terrain in the area can resemble the alpine. Like other huts, the alpine environment near the hut supports a variety of animal and plant life. Bears are inhabitants of the area and so when travelling in the area users need to be bear aware.

3.4.4 Historical Context

The hut was built in 1969, making it the VOC's oldest standing hut. Roland Burton received the Gold Pin in 1970 for his large contribution to the construction of the hut.



Asssembly of Sphinx Hut completed at Garibaldi Lake (Fall 1969)

For many years, the hut was the site of an annual Sphinx Spring Ski Camp. This used to be a huge event with dozens of people trekking across the lake around Easter to ski in the basin. There's even an old 8mm movie from the 1962 trip in the VOC archives about it.

The Burton Hut has seen relatively low activity over its lifetime, primarily because it is only easily accessible for only 3 or 4 months every year. This pattern of relatively low use kept the hut in reasonable shape for many years.

In August 2006 the Burton hut was renovated with a new door, windows, floor, end walls, insulation and a vapour barrier to help keep things warmer in the winter. The hut furniture was completely rebuilt to provide a large cooking area and a 30-inch-wide bench for sitting, sleeping or gear storage. The old kerosene heater (and all the remaining kerosene) was removed and replaced with a white gas catalytic heater.

3.4.5 Structure Details and Facilities

Burton Hut is an A Frame hut built with glued laminated timber columns and aluminum cladding. Full dimensioned as-built drawings of Burton Hut have not been completed but are being worked on for the 2019 Hut Management Plan. When finished, they will be attached in APPENDIX B: HUT DIMENSIONS. The. The table below shows hut facilities.

Heating	None
Lighting	Solar LED Lighting (8 AA Panasonic Re-Chargeable Batteries, 10W Solar Panel, 2W LED Light)
Cooking	One 2-Burner Coleman White Gas Stove
Fire Safety	None
First Aid	None
Sleeping	6 in the Loft, 5 on sleeping platforms and floor space on the main floor.
Capacity	Nominal: 14 persons Tight: 18 persons
Drinking water	Stream to the South, Lake to the West. May be able to dig through the snow in the lake to get to water depending on the time of year.
Human Waste	Log Outhouse Structure with Aluminum Roof (North of Hut)
Greywater	Near Outhouse
Garbage	Miscellaneous lost and discarded items left in hut.

PART 4 HUT CONDITIONS AND INTEGRITY

The table in this section outlines the current conditions of the various aspects of the site and the relative importance with respect to the framework of this management plan. An overall score is tallied for each hut through the sum product of the importance with the condition. Absence of an item in the other category will earn 1 point. Not applicable items are scored equivalent to good items. The final sum product should then be divided by a theoretical perfect final sum product to achieve a condition and integrity score out of 100.

The following terms will be used to evaluate the condition:

Good (1.0)	In working condition, structurally sound, weather/animal proofed, no repairs needed.
Fair (0.6)	In working condition, structurally sound, may not be weather/animal proofed, may have cosmetic damage, may need minor repairs.
Poor (0.2)	Not in working condition, may not be structurally sound, damaged, disturbed, requires repair.
Unknown (0.0)	Status of category unknown. High priority to evaluate the condition.
Not Applicable (1.0)	Category not applicable to hut. Hut may not contain the features than make this category relevant.

The following terms will be used to evaluate the importance:

High (8)	Features are of high importance with respect to this management plan to be kept to a good condition or better
Medium (6)	Features are of medium importance with respect to the to this management plan and should be kept to a good condition. However, a fair condition is acceptable.
Low (3)	Features of low importance with respect to the to this management plan and should be kept to at least a fair condition. If the feature is poor, it should be scheduled for improvement soon, but is not an imminent requirement.

Feature	*Importance*	*Brew Hut*
Trail outside of Site Plan	Medium – Access to the Hut must be maintained such that the hut can be maintained on a regular basis and such that users can access the site.	Good
Trail within Site Plan	Medium – Trails near the Hut should be located such that alpine flora are not trampled, grey and black water disposal do not leech into nearby drinking streams or snow sources and, tenting spots can be accessed.	Good
Outhouse Structure	High – VOCers, particularly female members have expressed that an enclosed outhouse structure is very important from a comfort and privacy standpoint.	Fair – New outhouse base constructed in 2018 with old outhouse structure now strongly attached to the new base. Outhouse door and latch needs replacing in the future as snow is getting inside.
Outhouse Pit/Barrels.	High – Outhouse pits and barrels must be adequately maintained such that users can use the facility as expected and non-packed out alpine environment defecation can be prevented.	Good – New outhouse base has an above ground solids storage unit. Ideal time to empty is mid-winter when solids are frozen, and a container can be pulled on a sled over to the disposal site. Check capacity through 2018.
Hut Foundation	High – The whole hut rests upon the foundations and the entire hut value would be at risk with a condition rating any less than good.	Good
Hut Substructure	High – Sitting on the foundation is the huts substructure. Failure of the substructure can range from minor consequences (floor punching through) to serious consequences (hut collapse).	Good
Hut Flooring	High – It is important from a safety perspective to have proper flooring installed. Recommended plywood thickness should be ¾" or greater.	Good
Hut Structural Framing Members	High – Supporting walls and the roof are structural framing members. Failure of the superstructure can have serious consequences (hut collapse, roof collapse).	Good

Brian Waddington Hut	*Julian Harrison Hut*	*Roland Burton Hut*
Good	Good	Poor – There is no summer access trail. Investigate opportunities to have canoes at Garibaldi Lake for summer access to Burton.
Fair – Marshy trail just leading up to the site plan could use reinforcement with geotextile and gravel.	Good	Unknown
Fair – Seat area is in fair/poor structural condition with patch work keeping it together. The structure itself is fine. The seat area should be rebuilt in the near future.	Good	Good – Door was rehung, and the back wall patched with a 2x4 and some rocks. Unclear if this will permanently prevent snow from filling up the pit. Keep close eye on this in the future.
Good	Good	Good – Ample capacity left in the pit as of fall 2018.
Good	Good	Good
Good	Good	Good
Good	Good	Good
Fair – Lack of heating is causing mold to grow along walls and structural members. In the long term this could affect structural capacity.	Good	Good

Feature	*Importance*	*Brew Hut*
Hut Door	Medium – A good door provides better insulation of the Hut and minimizes wood burning required. Protects the longevity of the interior of the Hut by preventing the seepage of moisture into the Hut.	Good – New Commercial Grade Polystyrene insulated steel door and aluminum expandable framing with accessories installed 2018. Door handle broke and was then replaced.
Hut Interior	Low – Features such as chairs, tables, benches and cabinets are not risks to user safety and hut function. Includes cellars/attics if present.	Fair – Improvements to shelving, blackboards, maps and signage are needed.
Hut Loft	Low – A clean, dry loft provides an enjoyable and comfortable sleeping and relaxing location.	Good
Hut Chimney	High – A properly installed chimney will increase efficiency and minimizing wood burning required.	Good – New chimney cap installed 2018.
Hut Heating	High – A properly installed heating device can increase efficiency and minimizing fuel required. Heating protects the Hut from moisture and mold and provides user comfort. Sustainability should be considered.	Good – 2000lbs of firewood flown in with outhouse project in 2018 in addition to 1000lbs hiked up over June.
Hut Windows	High – Properly installed windows will improve insulation and reduce wood burning required. Additionally, protects the longevity of the interior of the Hut by preventing the seepage of moisture into the Hut.	Good
Hut Lighting	Low – Main floor hut lighting is convenient and useful for groups at huts. Headlamp however is an essential safety item that individuals already carry and so lighting is not a user safety issue and moderate hut function issue.	Good
Other Features	Importance dependent on specified feature.	
Final Score		**95.6**/100

Brian Waddington Hut	*Julian Harrison Hut*	*Roland Burton Hut*
Good	Good	Fair – Doorknob is not a very good functional choice for people wearing gloves. Door shuts well and fits well if kept clear of snow and ice.
Fair – Two more benches would be useful for the entranceway. Benches for the ends of the tables would be useful. One bench for the middle back would be useful. Chalkboard for avy.	Good	Fair – There is not enough shelf space to house a full VOC Journal Library. Add a few more shelves in order to accommodate this.
Good – Currently a hole in the North end exists. It is stuffed with fabric and is the portal for the temperature loggers. Provides an escape for gas fumes. Needs permanent fixture.	Good	Poor – There is a square air vent hole on the east side that when wind blows, snow comes into the Hut and makes the upper loft un desirable to sleep. Proper permanent vent needed.
Not Applicable	Good	Not Applicable
Poor – No heating at the Hut. High efficiency wood stove to be installed summer 2019. One of the fire extinguishers is now empty and needs replacing.	Good	Good – Snow Insulated and People and cooking stove warmed.
Fair – Windows are in good conditions but things that hold the windows open do not work. Cut wood pieces as window keeper uppers.	Good	Good
Poor - Coleman white fuel lamps are currently used to light the hut. White fuel is highly flammable and a non-renewable energy source - desirable for alternative light sources to be investigated.	Good	Good – Solar Lighting Installed winter 2019.
Porch – Fair – Wood on the porch is deteriorating. Desirable to build a new porch with new wood that is treated for protection.		
77.0/100	**100**/100	**83.2**/100

PART 5 MANAGEMENT IMPLEMENTATION PLAN

This section describes the current action items related to this management. Archived action items can be viewed in Appendix C. Policies can be viewed in PART 2 MANAGEMENT POLICIES.

5.1 All Huts

5.1.1 Record Management

Phase	*Action*	*Status*	*Section/Comments*
GIS Data Collection	Verify 2017 completed detailed surveys of each hut site plan.	Planning	Policy (G1)
	Post a laminated and framed map sheets at each Hut.	Planning	Policy (K1) Policy (K2)
Archival Recording	Maintain a complete VOC Journal Library at each Hut	In-progress	Policy (K1) Policy (K2) Policy (G1)
	Create detailed as-built drawings for each Hut.	In-progress	Policy (G1)
	Set aside a new designated space in the VOC clubroom for the archival of management documents.	Planning	Policy (G1)
	Annual update of the Management Plan to be published by March 30th of each year.	On-going	Policy (P2)

5.1.2 Visitor Management

Phase	*Action*	*Status*	*Section/Comments*
Usage Tracking & Coordination	Develop a new hut registration system for better tracking of use and better coordination of use between users	In-progress	Policy (V5) Policy (C1)
	Improve donation payment options for users.	In-progress	Policy (V4) Policy (V3)
	Protect the condition of historical journal logs. When journals are full. copies should be made for the archive.	Planning	Policy (G1)
Visitor Education	Provide educational materials at each Hut	On-going	Policy (K2)
	Provide comprehensive wiki pages for each site	On-going	Policy (K2)
Visitor Feedback	Develop a method of user feedback for the improved condition and management of all hut facilities.	In-progress	Policy (P1)

5.2 Brew Hut

Phase	*Action*	*Status*	*Section/Comments*
Hut Interior	Install new signage, new shelving and new blackboards.	In-Progress	Policy (K2) Policy (G2)
Outhouse Pit/Barrel	Haul up a poop sled and a Tupperware container for emptying the outhouse	In-Progress	Policy (E5)
	Replace metal rebound plate and two small springs on the sh!t-o-matic.	In-Progress	Policy (E5)
Outhouse Structure	Replace door and door latch so that snow will not get inside.	Planning	Policy (G1)

5.3 Brian Waddington Hut

Phase	*Action*	*Status*	*Section/Comments*
Hut Heating	Install a high efficiency wood stove heating system and wood storage areas.	Concept	Policy (E2) Policy (E3)
	Replace Fire Extinguisher	In-Progress	Policy (G2)
Outhouse Structure	Rebuild the seat area of the outhouse with new materials.	Concept	Policy (G2)
Hut Lighting	Provide some form of lighting system (solar or TEG)	Design	Policy (K1)
Hut Interior	Construct 7 new benches	Concept	Policy (K1)
Hut Windows	Construct window keeper openers	Planning	Policy (G2)
Hut Loft	Install a permanent vent fixture	Planning	Policy (K1)
Trail within Site Plan	Install geotextile along marshy trail and cover and compact with lake gravel.	Planning	Policy (E2)

5.4 Julian Harrison Hut

Phase	*Action*	*Status*	*Section/Comments*
Garbage Haul	Remove old and broken Barr Creek Bridge, remove old door and miscellaneous garbage from Hut.	Hiatus (will occur with next major project requiring a helicopter)	Policy (E2) Policy (E6)
Hut Flooring	Apply a second layer of paint.	In-Progress	Policy (K1)
Hut Door	Apply a second layer of paint.	In-Progress	Policy (K1)
Trail outside of Site Plan	Construct new winter access trail from Meager Creek Hot springs.	Concept	Policy (K1) Policy (G1)
Trail outside of Site Plan	Construct new trail from existing trail to the new Barr Creek Bridge	Planning	Policy (K1) Policy (G1)
Outhouse Structure	Dismantle and decommission old wood outhouse structure.	Planning	Policy (E2) Policy (E5) Policy (G2)

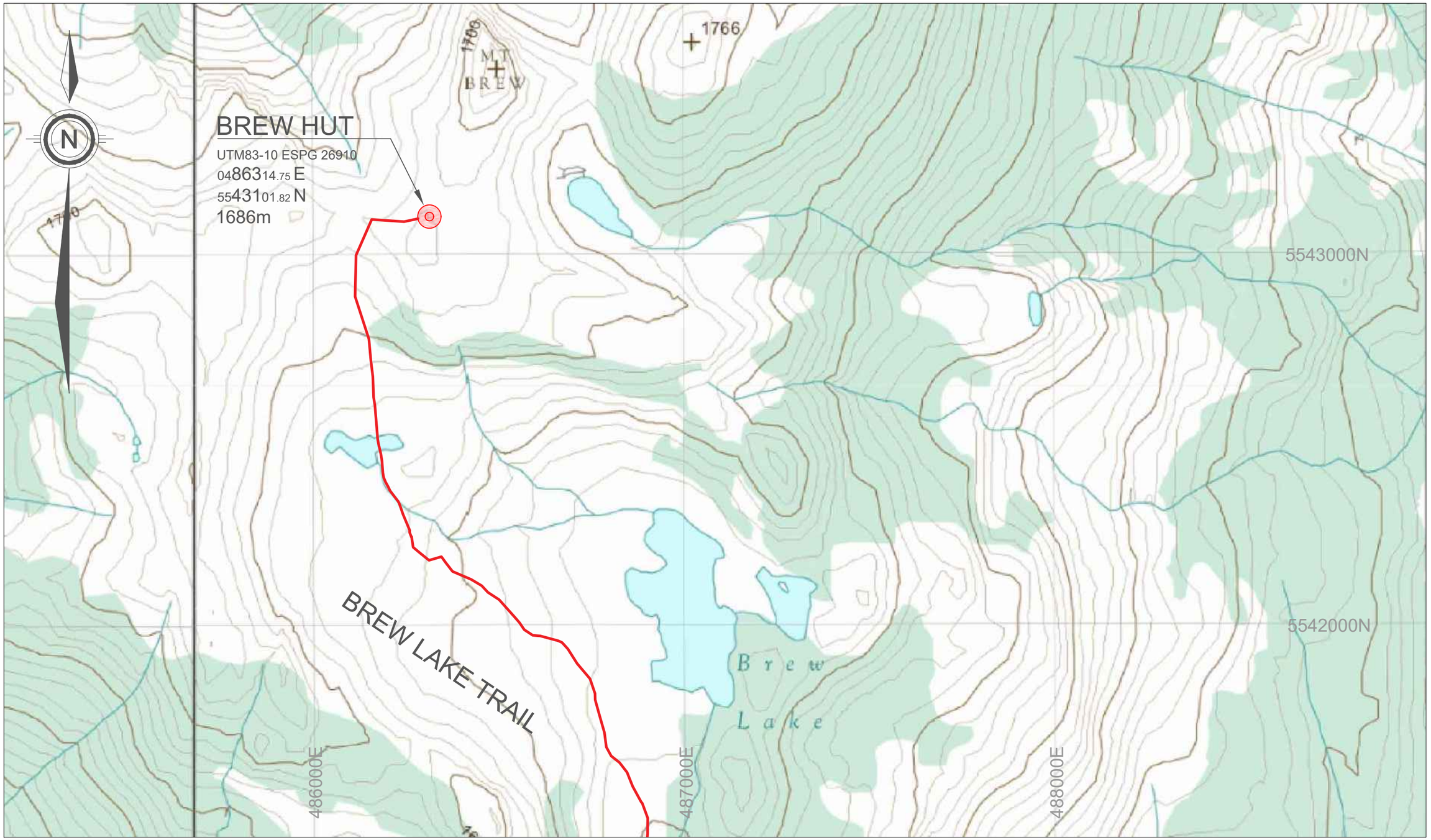
5.5 Roland Burton Hut

Phase	*Action*	*Status*	*Section/Comments*
Overall	Investigate structural condition of hut and outhouse	Planning	Policy (G1) Policy (G2)
Trail outside of Site Plan	Investigate opportunities for a small canoe shelter on the west side of Garibaldi Lake to open up access to Burton Hut in the summer	Hiatus	Policy (K1) Policy (K2) Policy (G1) Policy (G3)
Hut Door	Replace doorknob with a handle passenger	Planning	Policy (K1)
Hut Loft	Install a permanent vent fixture	Planning	Policy (K1)
Hut Interior	Construct and install additional shelving for library.	Planning	Policy (K2)

APPENDIX A: HUT SITE PLANS

To scale drawings of the hut site overviews and layouts including hut tenure polygons are shown on the following pages. The following drawings are included:

- 2018MP-BREW-001 Brew Hut Area Overview
- 2019MP-BREW-002 Brew Hut Site Layout
- 2018MP-BWH-001 Brian Waddington Hut Area Overview
- 2019MP-BWH-002 Brian Waddington Hut Site Layout
- 2018MP-HAR-001 Harrison Hut Area Overview
- 2018MP-HAR-002 Harrison Hut Site Layout
- 2018MP-BUR-001 Burton Hut Area Overview
- 2018MP-BUR-002 Burton Hut Site Layout



0	7/12/2018	G.H.	G.H.	
NO.	DATE	ENG.	BY	SUBJECT
REVISIONS				

The Varsity Outdoor Club of the AMS

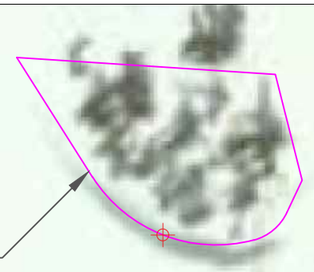
PROJECT No.	2018MP		
SCALE	1:10,000 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

TOPOGRAPHY USGS 7.5' 20m CONTOURS. UTM83-10 ESPG 26910 GRID AT 1000m. BLACK TUSK AND PINECREST WATERSHED AS INDICATED IN THE 2001 S2SLRMP

BREW HUT AREA OVERVIEW

DRAWING NUMBER	REV. NO.	SHEET
2018MP-BREW-001	0	



OUTHOUSE WASTE AREA

COORDINATE TABLE				
POINT	NORTHING	EASTING	LATITUTDE	LONGITUDE
OUTHOUSE WASTE AREA	5543204.37	486335.61	50.04098	-123.19083
OUTHOUSE SITE (2018)	5543116.21	486327.95	50.04019	-123.19093
DECOMMISONED OUTHOUSE (2017)	5543104.55	486337.31	50.04008	-123.19080
WOODSHED	5543093.08	486310.45	50.03998	-123.19117
BREW HUT	5543101.82	486314.75	50.04006	-123.19111
2012 TENURE VERTEX	5543129.04	486310.15	50.04030	-123.19118
2012 TENURE VERTEX	5543149.05	486310.20	50.04048	-123.19118
2012 TENURE VERTEX	5543149.00	486330.25	50.04048	-123.19090
2012 TENURE VERTEX	5543128.99	486330.20	50.04030	-123.19090
2042 PROPOSED TENURE VERTEX	5543130.00	486295.00	50.04031	-123.19139
2042 PROPOSED TENURE VERTEX	5543080.00	486295.00	50.03986	-123.19139
2042 PROPOSED TENURE VERTEX	5543080.00	486345.00	50.03986	-123.19069
2042 PROPOSED TENURE VERTEX	5543130.00	486345.00	50.04031	-123.19069

2012 TENURE POLYGON

2042 PROPOSED TENURE POLYGON

OUTHOUSE SITE (2018)

BREW LAKE TRAIL

DECOMISSIONED OUTHOUSE SITE (2017)

BREW HUT

WOODSHED

NO.	DATE	ENG.	BY	SUBJECT
1	10/17/2018	G.H.	G.H.	New Outhouse
0	7/12/2018	G.H.	G.H.	

REVISIONS

The Varsity Outdoor Club of the AMS

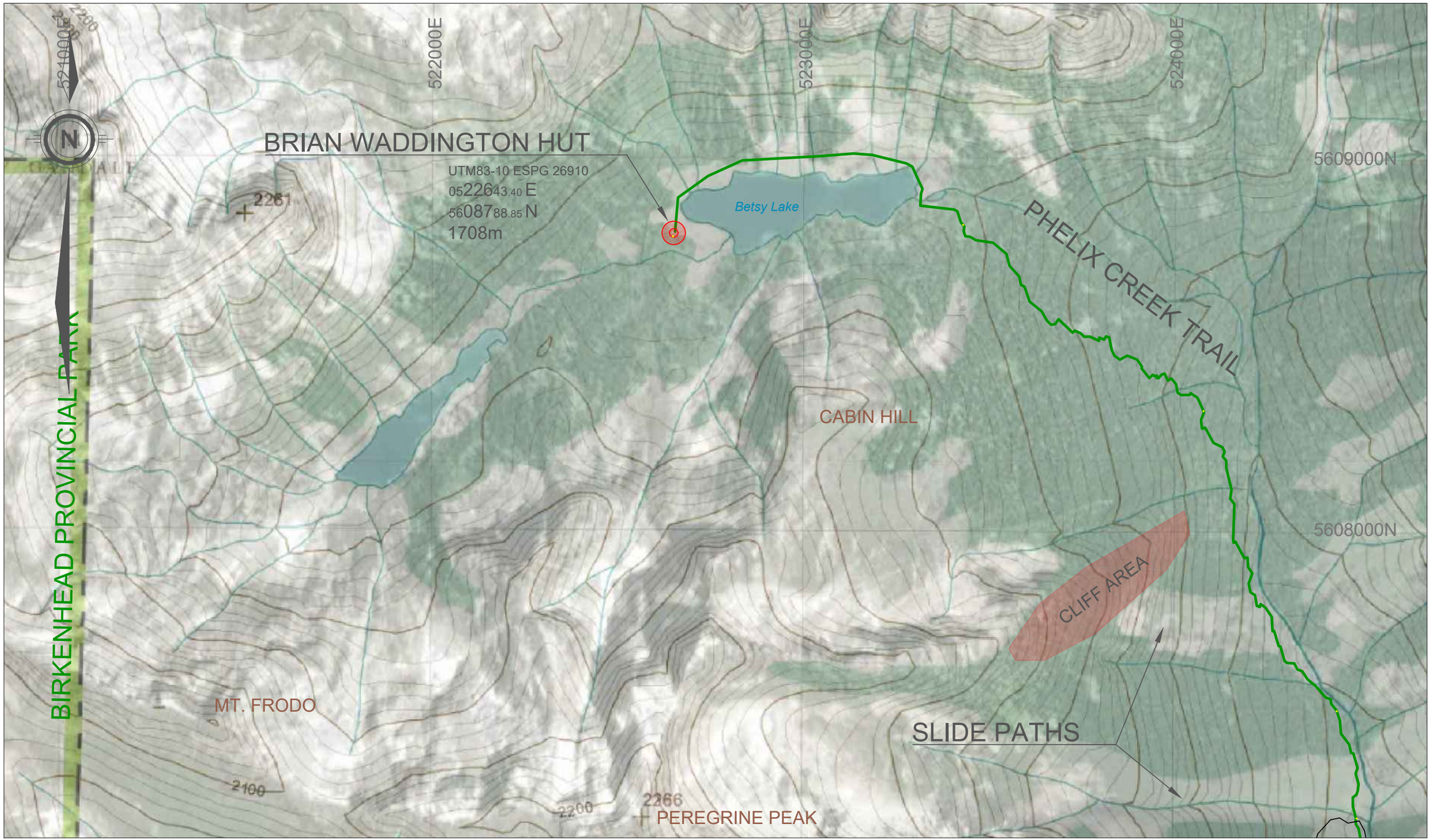
PROJECT No.	2019MP		
SCALE	1:750 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

GOOGLE AERIAL PHOTOGRAPHY WITH OVERLAY TOPOGRAPHY USGS 7.5' 20m CONTOURS. UTM83-10 ESPG 26910 GRID AT 1000m. BLACK TUSK AND PINECREST WATERSHED AS INDICATED IN THE 2001 S2SLRMP

BREW HUT SITE LAYOUT

DRAWING NUMBER	REV. NO.	SHEET
2019MP-BREW-002	1	



0	6/5/2018	G.H.	G.H.		
NO.	DATE	ENG.	BY	SUBJECT	
REVISIONS					

The Varsity Outdoor Club of the AMS

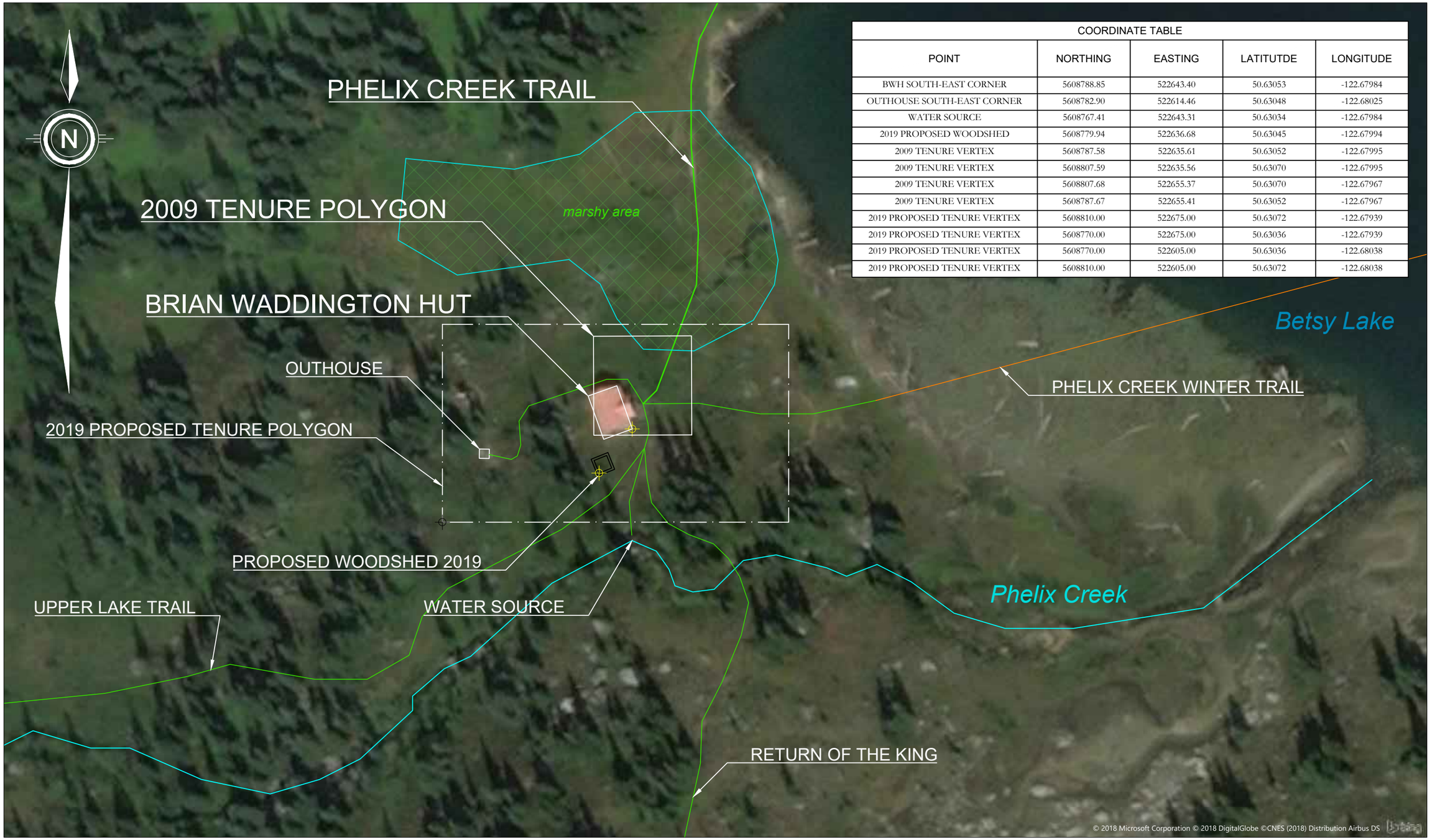
PROJECT No.	2018MP		
SCALE	1:10,000 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

GOOGLE AEIRAL PHOTOGRAPHS OVERLAYED TOPOGRAPHY USGS 7.5' 20m CONTOURS. UTM83-10 GRID AT 1000m.

BRIAN WADDINGTON HUT AREA OVERVIEW

DRAWING NUMBER	REV. NO.	SHEET
2018MP-BWH-001	0	



COORDINATE TABLE				
POINT	NORTHING	EASTING	LATITUTDE	LONGITUDE
BWH SOUTH-EAST CORNER	5608788.85	522643.40	50.63053	-122.67984
OUTHOUSE SOUTH-EAST CORNER	5608782.90	522614.46	50.63048	-122.68025
WATER SOURCE	5608767.41	522643.31	50.63034	-122.67984
2019 PROPOSED WOODSHED	5608779.94	522636.68	50.63045	-122.67994
2009 TENURE VERTEX	5608787.58	522635.61	50.63052	-122.67995
2009 TENURE VERTEX	5608807.59	522635.56	50.63070	-122.67995
2009 TENURE VERTEX	5608807.68	522655.37	50.63070	-122.67967
2009 TENURE VERTEX	5608787.67	522655.41	50.63052	-122.67967
2019 PROPOSED TENURE VERTEX	5608810.00	522675.00	50.63072	-122.67939
2019 PROPOSED TENURE VERTEX	5608770.00	522675.00	50.63036	-122.67939
2019 PROPOSED TENURE VERTEX	5608770.00	522605.00	50.63036	-122.68038
2019 PROPOSED TENURE VERTEX	5608810.00	522605.00	50.63072	-122.68038

NO.	DATE	ENG.	BY	SUBJECT
1	27/3/2019	G.H.	G.H.	
0	6/5/2018	G.H.	G.H.	

REVISIONS

The Varsity Outdoor Club of the AMS

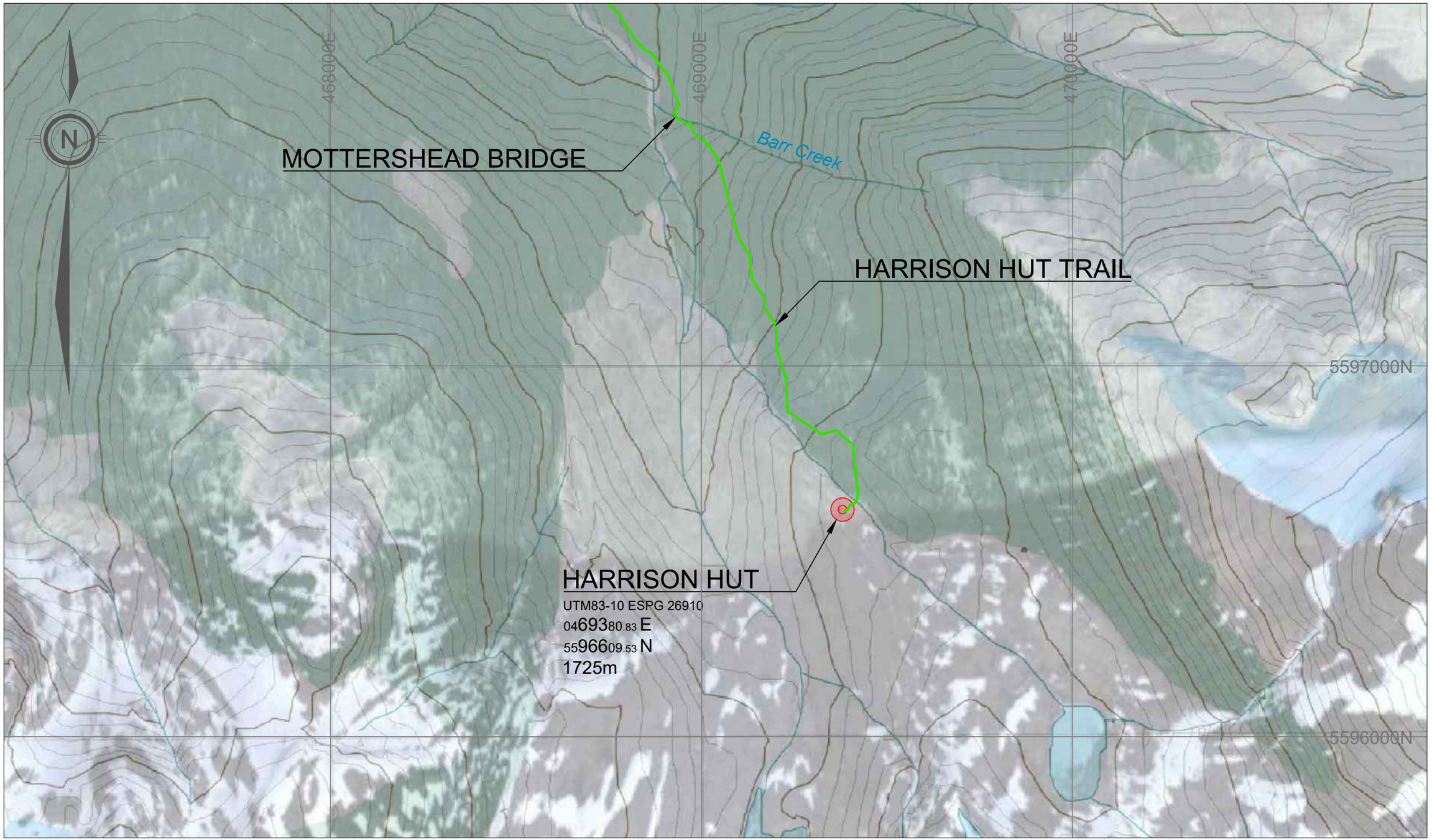
PROJECT No.	2019MP		
SCALE	1:750 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

BING AERIAL PHOTOGRAPHY.

BRIAN WADDINGTON HUT SITE LAYOUT

DRAWING NUMBER	REV. NO.	SHEET
2019MP-BWH-002	1	



0	6/5/2018	G.H.	G.H.	
NO.	DATE	ENG.	BY	SUBJECT
REVISIONS				

The Varsity Outdoor Club of the AMS

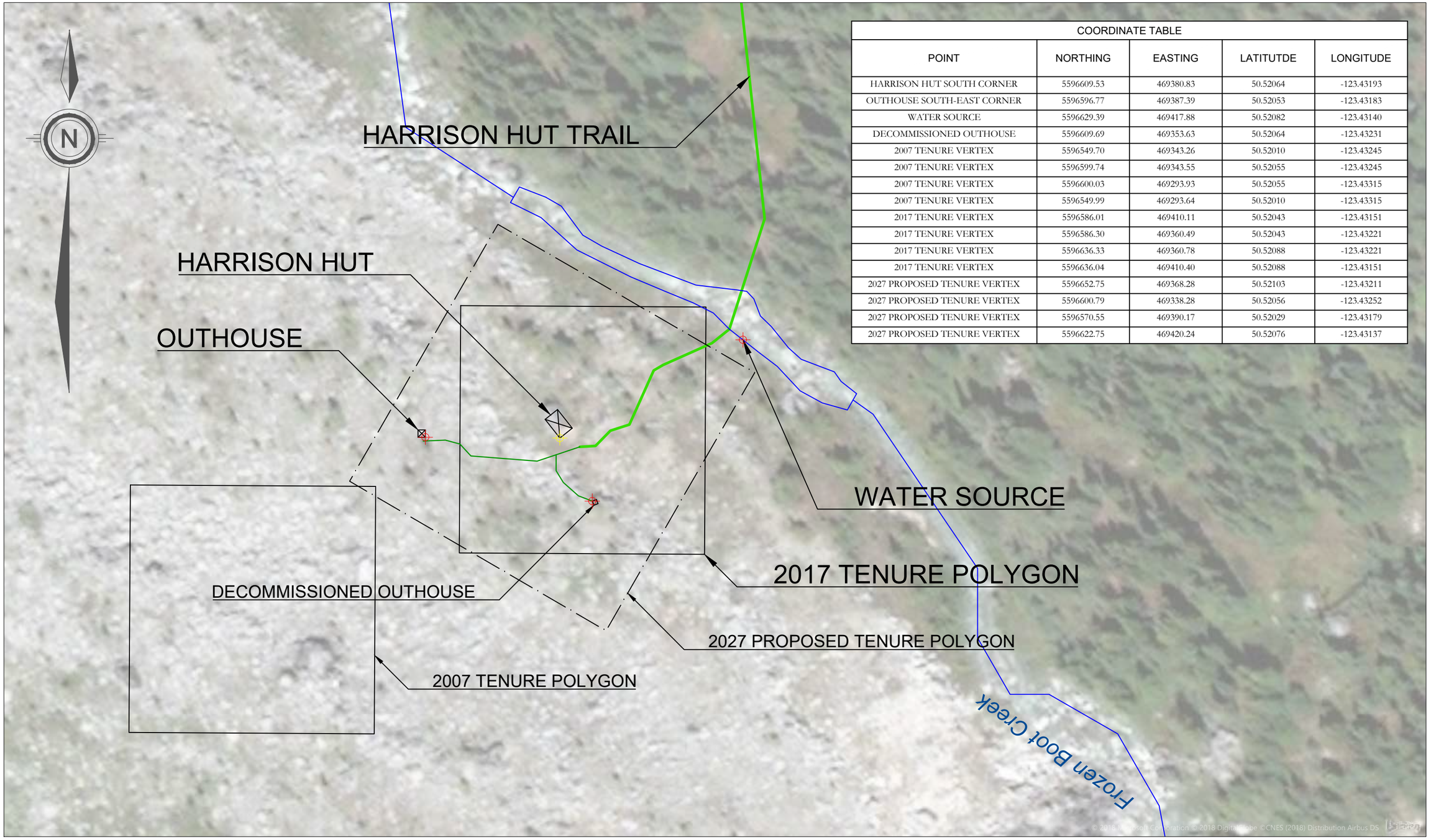
PROJECT No.	2018MP		
SCALE	1:10,000 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

GOOGLE AEIRAL PHOTOGRAPHS OVERLAYED TOPOGRAPHY USGS 7.5' 20m CONTOURS. UTM83-10 GRID AT 1000m. AREA SHOWN IN MAP IS ZONED RA1-A UNDER THE S2S LRMP 2009.

HARRISON HUT AREA OVERVIEW

DRAWING NUMBER	REV. NO.	SHEET
2018MP-HAR-001	0	



COORDINATE TABLE				
POINT	NORTHING	EASTING	LATITUTDE	LONGITUDE
HARRISON HUT SOUTH CORNER	5596609.53	469380.83	50.52064	-123.43193
OUTHOUSE SOUTH-EAST CORNER	5596596.77	469387.39	50.52053	-123.43183
WATER SOURCE	5596629.39	469417.88	50.52082	-123.43140
DECOMMISSIONED OUTHOUSE	5596609.69	469353.63	50.52064	-123.43231
2007 TENURE VERTEX	5596549.70	469343.26	50.52010	-123.43245
2007 TENURE VERTEX	5596599.74	469343.55	50.52055	-123.43245
2007 TENURE VERTEX	5596600.03	469293.93	50.52055	-123.43315
2007 TENURE VERTEX	5596549.99	469293.64	50.52010	-123.43315
2017 TENURE VERTEX	5596586.01	469410.11	50.52043	-123.43151
2017 TENURE VERTEX	5596586.30	469360.49	50.52043	-123.43221
2017 TENURE VERTEX	5596636.33	469360.78	50.52088	-123.43221
2017 TENURE VERTEX	5596636.04	469410.40	50.52088	-123.43151
2027 PROPOSED TENURE VERTEX	5596652.75	469368.28	50.52103	-123.43211
2027 PROPOSED TENURE VERTEX	5596600.79	469338.28	50.52056	-123.43252
2027 PROPOSED TENURE VERTEX	5596570.55	469390.17	50.52029	-123.43179
2027 PROPOSED TENURE VERTEX	5596622.75	469420.24	50.52076	-123.43137

NO.	DATE	ENG.	BY	SUBJECT
0	6/5/2018	G.H.	G.H.	

REVISIONS

The Varsity Outdoor Club of the AMS

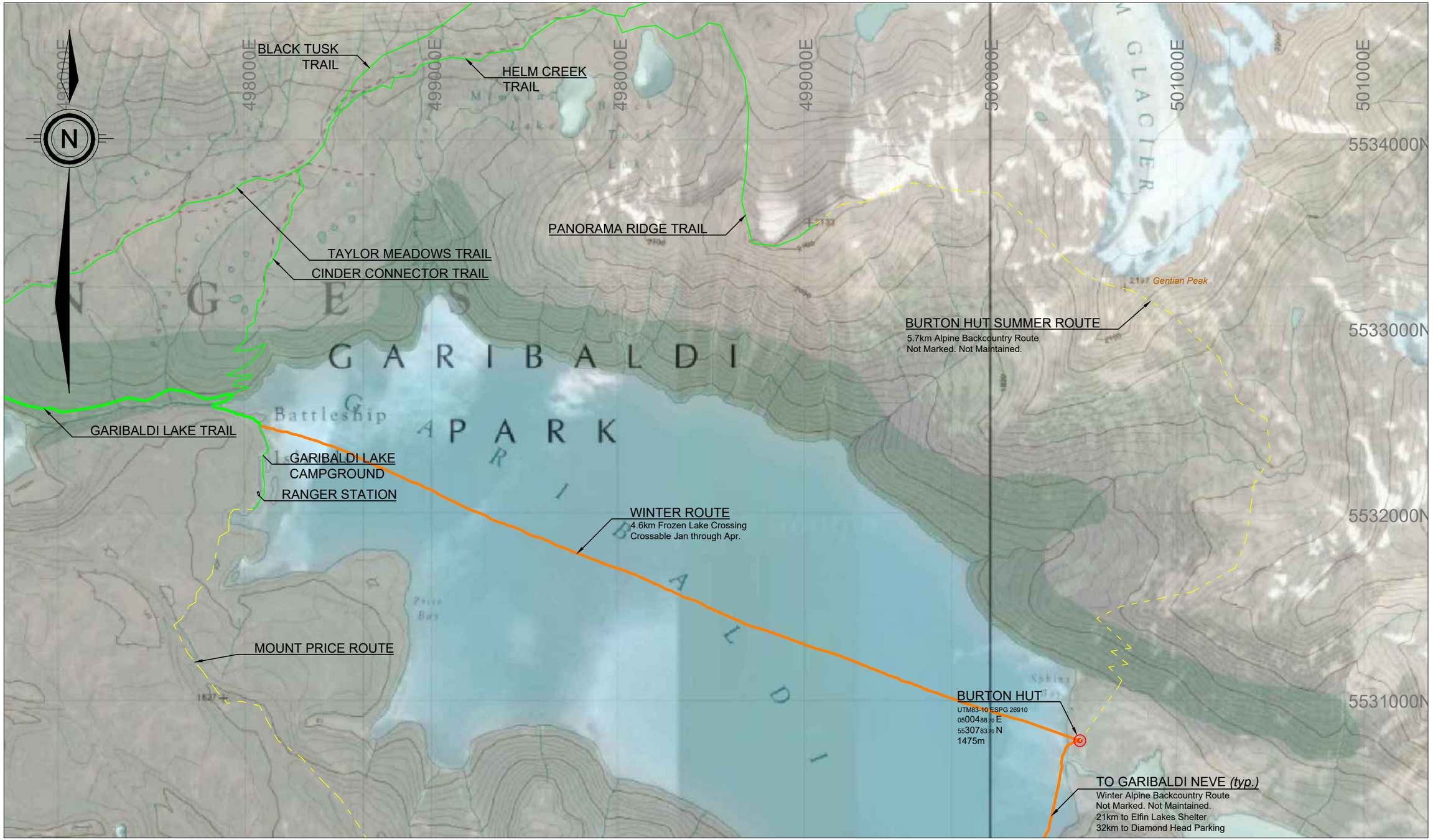
PROJECT No.	2018MP		
SCALE	1:750 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

BING AERIAL PHOTOGRAPHY.

HARRISON HUT SITE LAYOUT

DRAWING NUMBER	REV. NO.	SHEET
2018MP-HAR-002	0	



NO.	DATE	ENG.	BY	SUBJECT
0	6/11/2018	G.H.	G.H.	

REVISIONS

The Varsity Outdoor Club of the AMS

PROJECT No.	2018MP		
SCALE	1:20,000 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

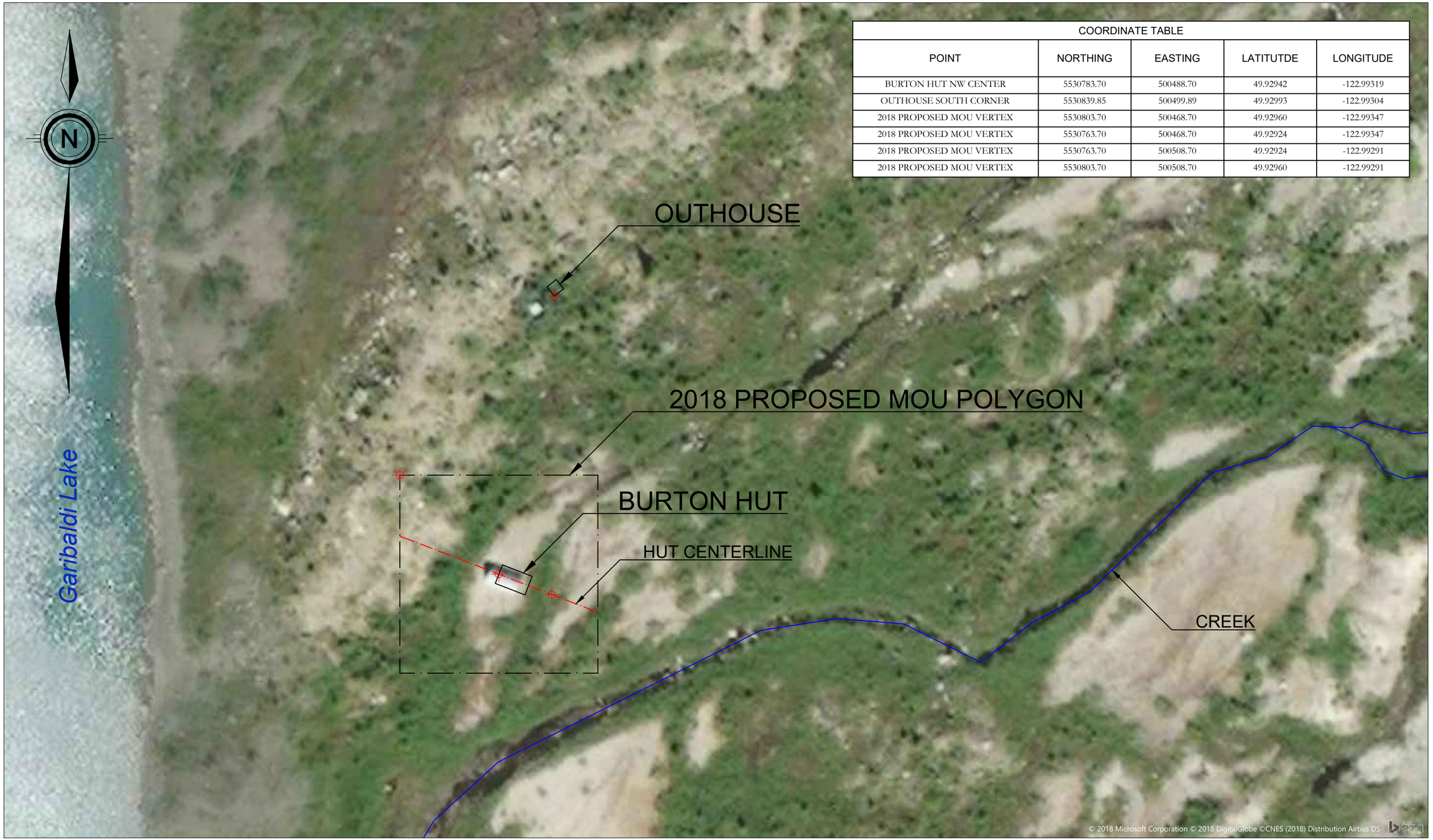
GENERAL NOTES

TOPOGRAPHY USGS 7.5' 20m CONTOURS. UTM83-10 GRID AT 1000m. BING AERIAL PHOTOGRAPHY OVERLAY.

BURTON HUT AREA OVERVIEW

DRAWING NUMBER	REV. NO.	SHEET
2018MP-BUR-001	0	

COORDINATE TABLE				
POINT	NORTHING	EASTING	LATITUTDE	LONGITUDE
BURTON HUT NW CENTER	5530783.70	500488.70	49.92942	-122.99319
OUTHOUSE SOUTH CORNER	5530839.85	500499.89	49.92993	-122.99304
2018 PROPOSED MOU VERTEX	5530803.70	500468.70	49.92960	-122.99347
2018 PROPOSED MOU VERTEX	5530763.70	500468.70	49.92924	-122.99347
2018 PROPOSED MOU VERTEX	5530763.70	500508.70	49.92924	-122.99291
2018 PROPOSED MOU VERTEX	5530803.70	500508.70	49.92960	-122.99291



NO.	DATE	ENG.	BY	SUBJECT
0	6/11/2018	G.H.	G.H.	

REVISIONS

The Varsity Outdoor Club of the AMS

PROJECT No.	2018MP		
SCALE	1:750 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

GOOGLE AERIAL PHOTOGRAPHY UTM83-10 26910. MOU = "MEMORANDUM OF UNDERSTANDING". BC PARKS AND THE VOC. SITE WITHIN GARIBALDI PROVINCIAL PARK. NOTE: AERIAL PHOTO MAY NOT LINE UP WITH COORD SYSTEM.

BURTON HUT SITE LAYOUT

DRAWING NUMBER	REV. NO.	SHEET
2018MP-BUR-002	0	

APPENDIX B: HUT DIMENSIONS

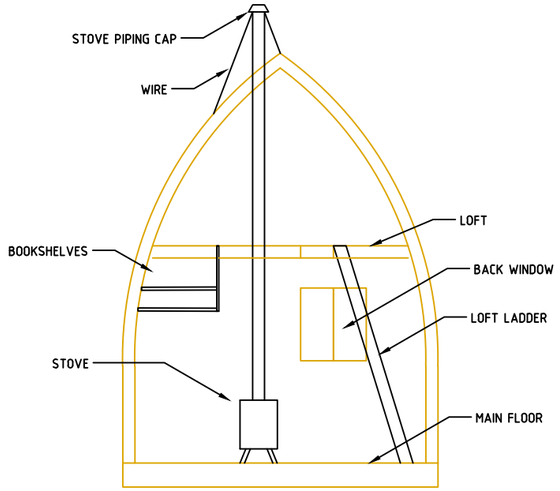
The full to scale as-built drawings for each hut are shown in the following pages. The following drawings are included:

- 2018MP-HAR-003 Harrison Hut Dimensions
- 2019MP-BWH-003 Brian Waddington Hut Dimensions
- 2019MP-BWH-004 Brian Waddington Hut 3D View and Sleeping Arrangement
- 2019MP-BWH-005 Brian Waddington Hut Wood Shed Drawings

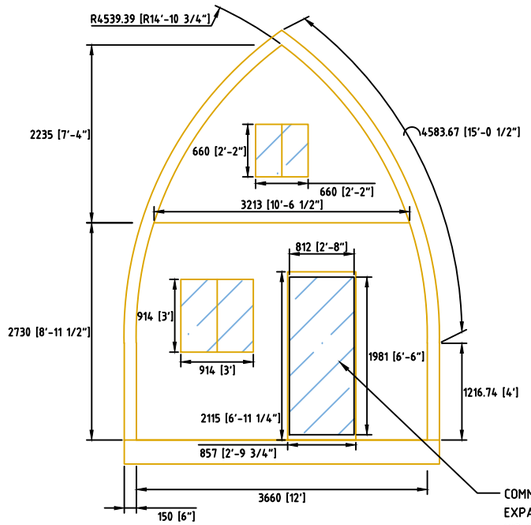
The following drawings are not included but are being worked on for inclusion within the 2020 Huts Management Plan.

- 2020MP-BREW-003 Brew Hut Dimensions
- 2020MP-BUR-003 Burton Hut Dimensions

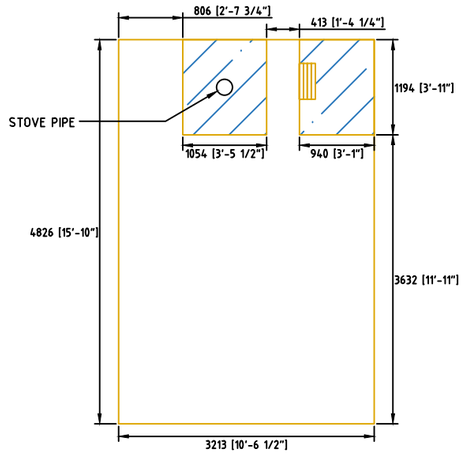
BACK WALL



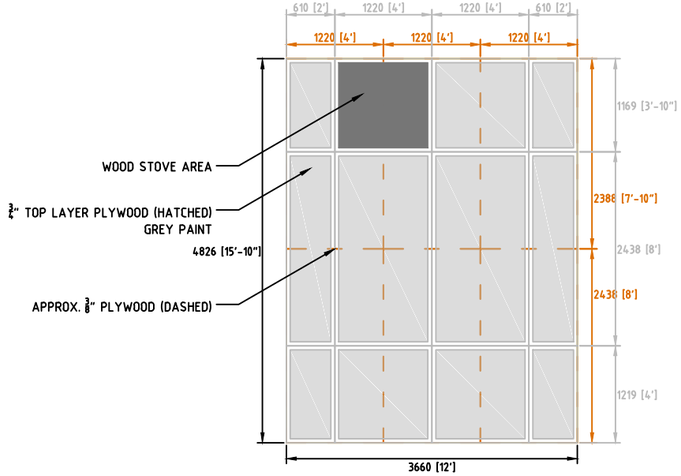
FRONT VIEW



LOFT



MAIN FLOOR



NO.	DATE	ENG.	BY	SUBJECT
1	2018.07.02	G.H.	G.H.	New Plywood Layer and New Door
0	2016.10.10	G.H.	G.H.	

REVISIONS

The Varsity Outdoor Club of the AMS

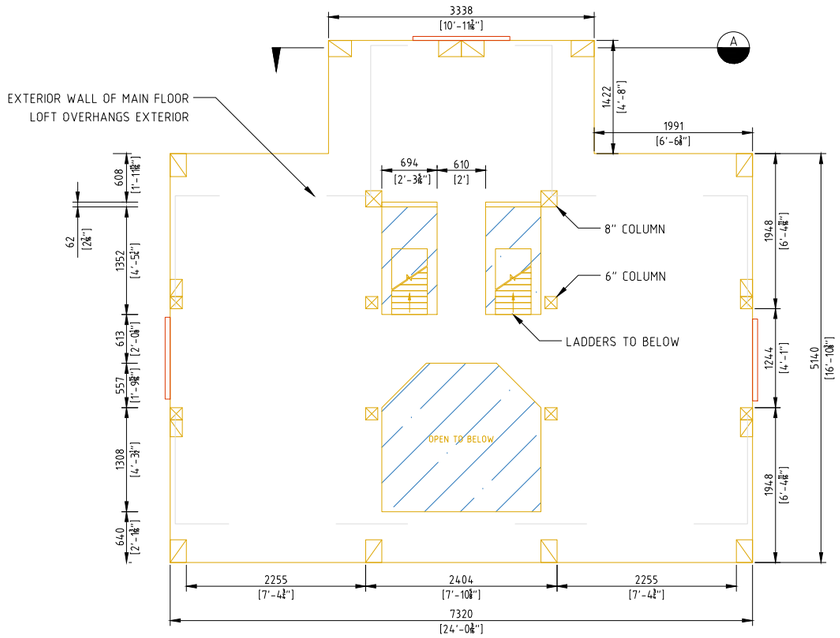
PROJECT No.	2018MP		
SCALE	1:75 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

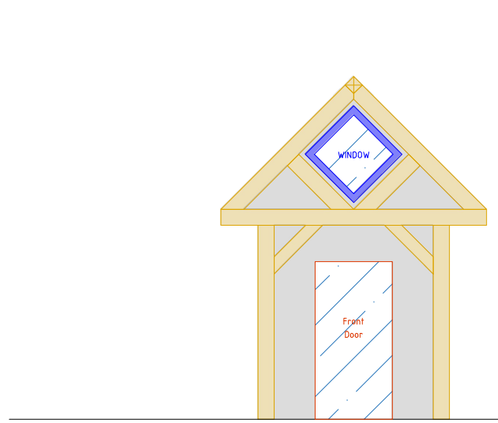
GENERAL NOTES

DIMENSIONED AS MEASURED IN 2016 AND AS INSTALLED 2017. WOOD STOVE AREA APPROXIMATE. POSITIONS AND SIZE OF WINDOWS, STOVE AND LADDER ROUGH ESTIMATES.

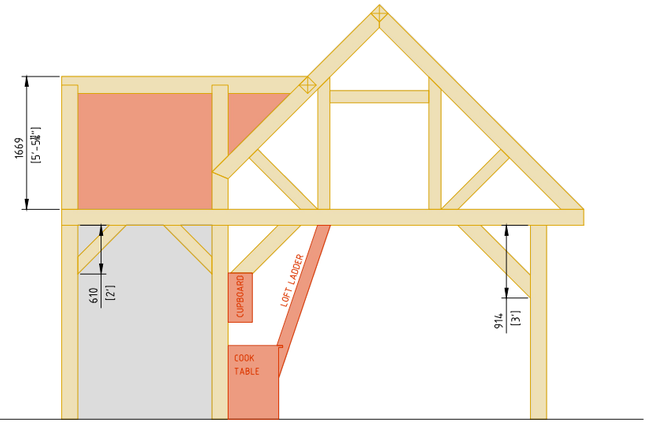
HARRISON HUT DIMENSIONS

DRAWING NUMBER	REV. NO.	SHEET
2018MP-HAR-003	1	

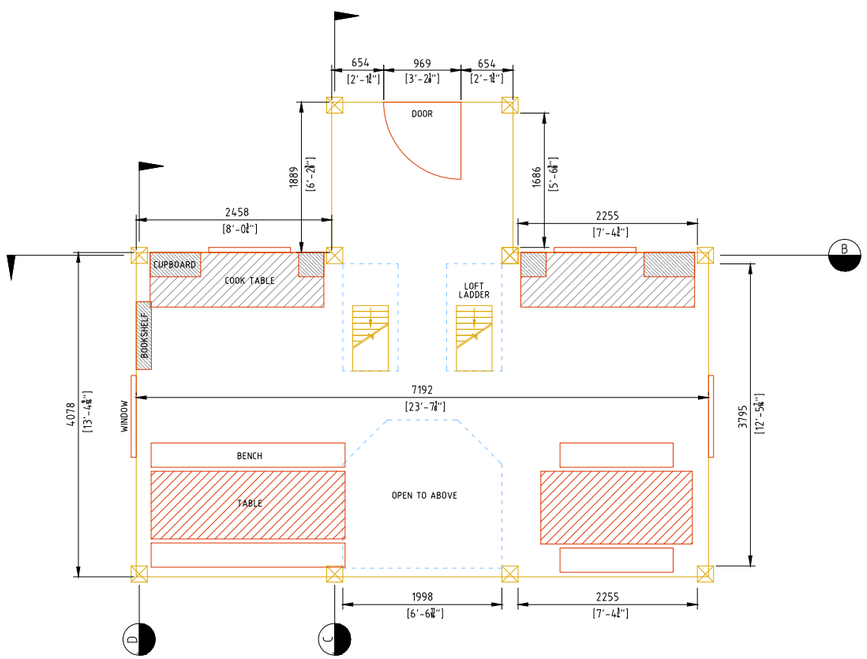


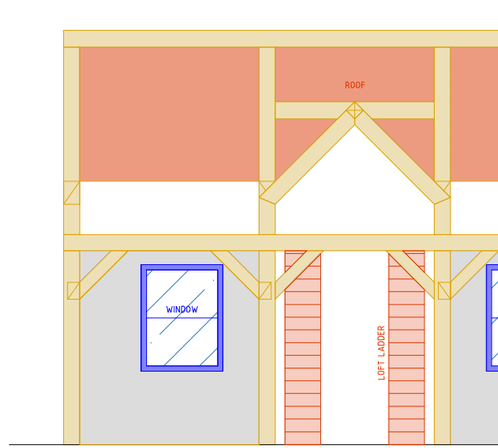


FRONT-FRONT ELEVATION VIEW A

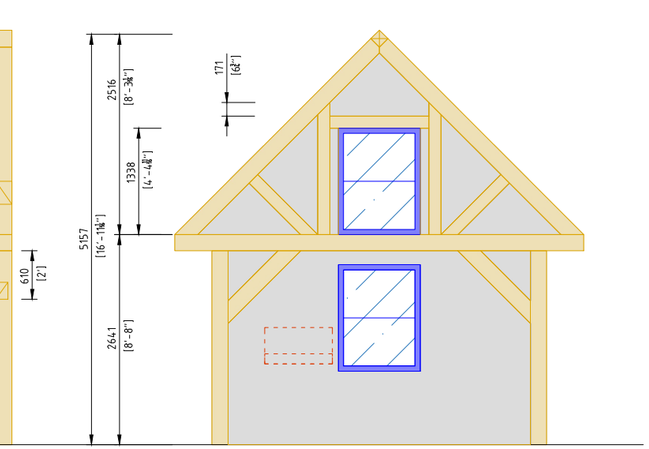


SIDE-MIDDLE ELEVATION VIEW C





FRONT-MIDDLE ELEVATION VIEW B



SIDE-FRONT ELEVATION VIEW D

0	2019.01.07	G.H.	G.H.	
NO.	DATE	ENG.	BY	SUBJECT
REVISIONS				

The Varsity Outdoor Club of the AMS

PROJECT No.	2019MP		
SCALE	1:75 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

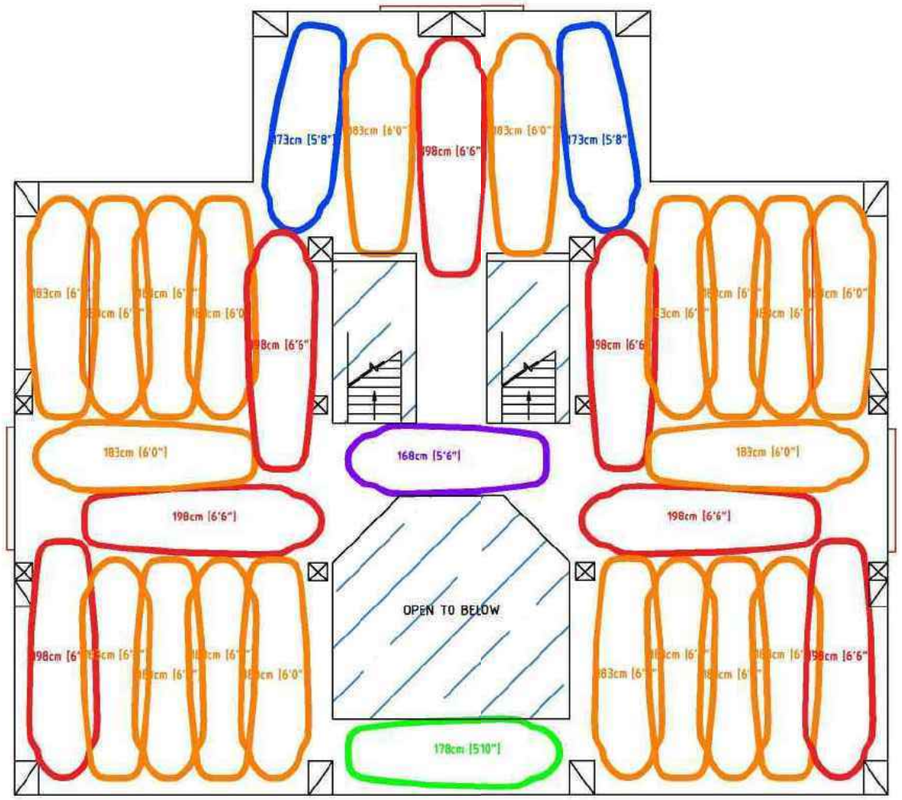
GENERAL NOTES

DIMENSIONED AS MEASURED IN 2019 AND AS INSTALLED 2017. FUNISHINGS AND WINDOWS APPROXIMATE POSITIONS. FIRST FLOOR HEIGHT APPROXIMATED AT 8' (WAS NOT MEASURED).

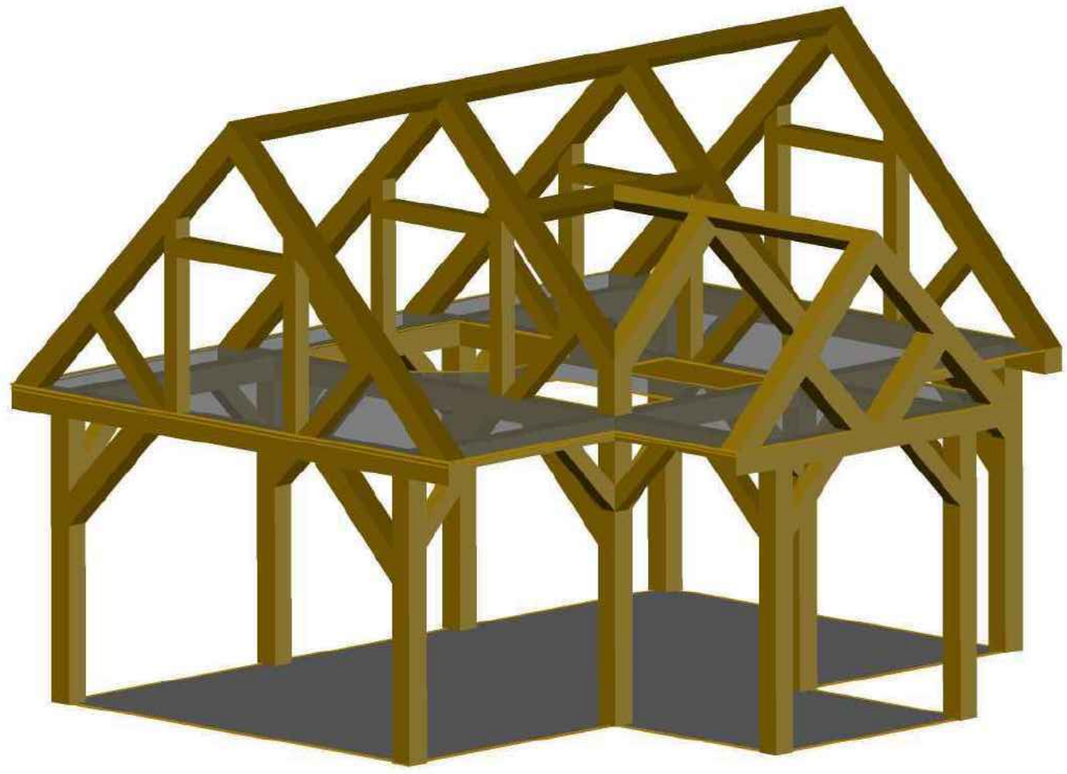
BRIAN WADDINGTON HUT DIMENSIONS

DRAWING NUMBER	REV. NO.	SHEET
2019MP-BWH-003	0	

SLEEPING ARRANGEMENT
MAX SARDINES = 31



3D VIEW



0	2019.01.07	G.H.	G.H.		
NO.	DATE	ENG.	BY	SUBJECT	
REVISIONS					

The Varsity Outdoor Club of the AMS

PROJECT No.	2019MP		
SCALE	1:50 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

SLEEPING ARRANGEMENT FOR 31 PERSONS IN THE LOFT. SLEEPING SPOTS ARE COLOURED BY SIZE. 3D VISUAL OF THE HUT FRAMING

BRIAN WADDINGTON HUT DIMENSIONS

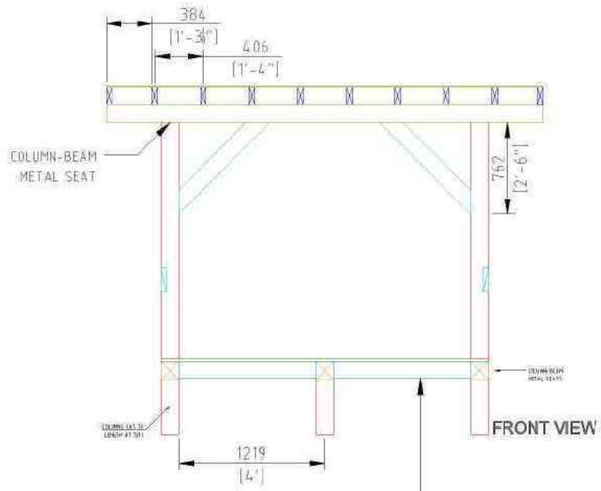
DRAWING NUMBER	REV. NO.	SHEET
2019MP-BWH-004	0	

MATERIALS LIST
LUMBER AND PLYWOOD TREATED. METAL GALVANIZED.

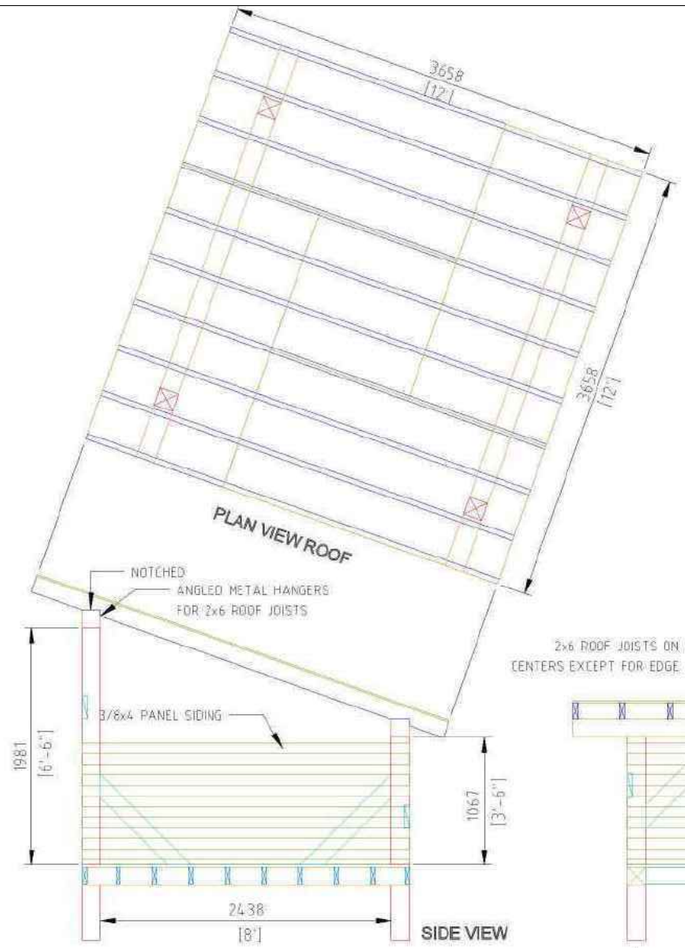
-	5x	0.5"	PLYWOOD SHEETS ROOF	4x8'
-	3x	0.75"	PLYWOOD SHEETS FLOOR	4x8'
-	10x	12'	SPF LUMBER ROOF JOISTS	2x6"
-	14x	8'	SPF LUMBER FLOOR+BRACE	2x6"
-	5x	12'	SPF LUMBER ROOF BEAMS	6x6"
-	4x	8'	SPF LUMBER ROOF COLUMNS	6x6"
-	18x	9'	PANEL SIDING	$\frac{3}{8}$x4"
-	12 sq. ft.		TAR PAPER	
-	5x	12'	WESTFORM DIAMOND ROOFING	30"

CONNECTIONS

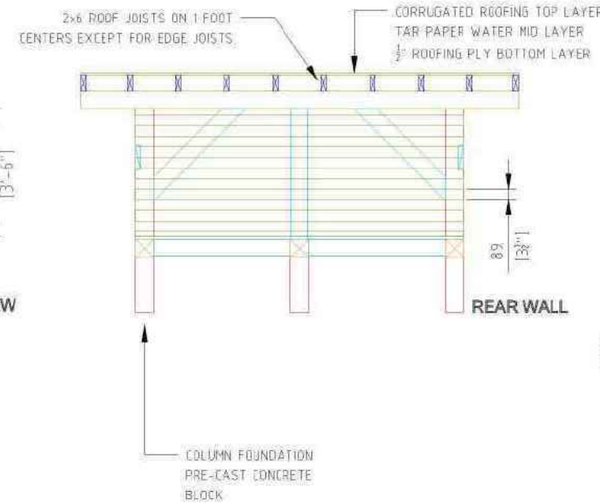
-	40x		JOIST HANGERS	
-	20x		ANGLED JOIST HANGERS	
-	14x		METAL COLUMN-BEAM SEATS	
-	6x		PRE-CAST CONCRETE BLOCKS	
-	500x	2"	GALVANIZED HEX SCREWS	$\frac{1}{4}$"
-	100x	4"	GRK STRUCTURAL SCREWS	T25
-	50x	10"	GRK STRUCTURAL SCREWS	T25
-	100x	3"	GALVANIZED ROOFING SCREWS	$\frac{1}{4}$"



FRONT VIEW

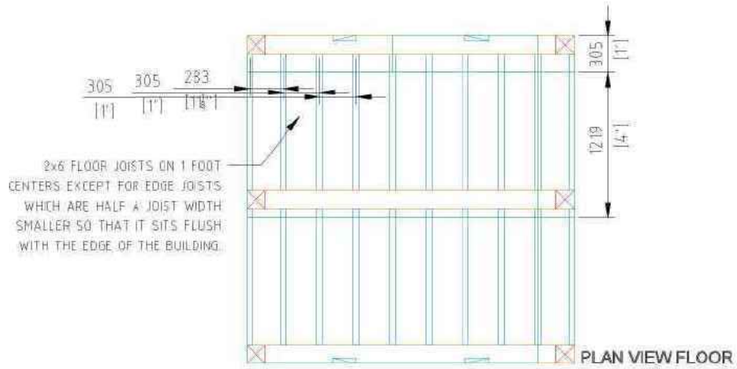


SIDE VIEW



REAR WALL


3D FRONT VIEW



PLAN VIEW FLOOR


3D BACK VIEW

0	2019.03.25	G.H.	G.H.	
NO.	DATE	ENG.	BY	SUBJECT
REVISIONS				

The Varsity Outdoor Club of the AMS

PROJECT No.	2019MP		
SCALE	1:50 on ANSI B (11x17)		
DRAWN	GEORGE HILL		
DESIGNED			
CHECKED			
APPROVED			
DATE		INITIAL	

GENERAL NOTES

ALL WOOD (EXCEPT SIDING) PRESSURE TREATED. ALL METAL FASTENERS GALVANIZED. WOOD SHED CAPACITY 2 CORDS FOR 1 CORD CONSUMPTION PER YEAR: ONE CORD = 16" CUT WOOD IN 4'x8' PILE 4' TALL, APPROX 3000 LBS. TWO FLIGHTS WITH B2 HELI PER CORD. FOUR B2 FLIGHTS PER FUEL TANK.

WOOD SHED
BRIAN WADDINGTON HUT

DRAWING NUMBER	REV. NO.	SHEET
2019MP-BWH-004	0	

APPENDIX C: ARCHIVED COMPLETED ACTION ITEMS

When an action item in section 5 is completed it is archived in this section by hut and thereafter chronologically from newest to oldest.

All Huts

Phase	*Action*	*Status*	*Section/Comments*
Archival Recording	Assimilate all electronic management documents into a single repository.	Complete 2017	Policy (G1)
GIS Data Collection	Complete a detailed survey of the site plan and the area in near proximity of the site.	Complete 2017	Policy (G1)

Brew Hut

Phase	*Action*	*Status*	*Section/Comments*
Hut Door	Install a steel door insulated with Styrofoam to increase the weather proofing of the Hut and prevent intrusion of rodents into the Hut.	Complete 2018	Policy (G1) Policy (E2)
	Install a new door passenger to replace broken one	Complete 2019	Policy (K1)
Hut Lighting	Pin to turn light on has fallen out - light switch needs repair. Pin was stuck back in but then light would not turn off.	Complete 2018	Policy (K1)
Hut Lighting	Install solar panel and low energy LED lights to allow for the elimination of white fuel Coleman lamps.	Complete 2017	Policy (G2) Policy (E2)

Brian Waddington Hut

Phase	*Action*	*Status*	*Section/Comments*
Hut Interior	Install a chalkboard for avalanche and weather bulletins.	Complete 2018	Policy (K2) Policy (G2)
Hut Heating	Install temperature and humidity loggers to learn more about the temperatures of the area, the humidity levels the cabin is subjected to, and the effect of human presence on those values. Goal is to inform future heating decisions.	Complete 2018	Policy (G1) Policy (G3) Policy (E2) Policy (V5)

Julian Harrison Hut

Phase	*Action*	*Status*	*Section/Comments*
Hut Flooring	Re-build floor of the Hut and protect the underside of the hut from wildlife intrusion.	Completed 2017	Policy (G2) Policy (E2)
Hut Door	Install a steel door insulated with Styrofoam to increase the weather proofing of the Hut and prevent intrusion of rodents into the Hut.	Completed 2017	Policy (E2)
Trail Outside of Site Plan	Install a new bridge over Barr Creek on the Harrison Hut Trail.	Completed 2017	Policy (K1) Policy (G2)
Hut Lighting	Install solar panel and low energy LED lights to allow for the elimination of white fuel Coleman lamps.	Completed 2017	Policy (G2) Policy (E2)

Roland Burton Hut

Phase	*Action*	*Status*	*Section/Comments*
Donation Box	Install a cash donation box within the Hut.	Complete 2018	Policy (V3) Policy (V4)
Outhouse Structure	Rehang door and block off/fix up the back wall to prevent snow from entering the pit	Complete 2018	Policy (E2) Policy (K1) Policy (E5)
Hut Lighting	Install solar panel and low energy LED lights to allow for the elimination of white fuel Coleman lamps.	Complete 2019	Policy (G2) Policy (E2)

APPENDIX D: MODIFICATIONS

All modifications to this document should be recorded permanently here.

Modification	***Description***	***Modifier***	***Section/Comments***
1st Draft	To outline the policies and procedures implemented by the VOC as the active manager of the Harrison Hut site.	George Hill 2017.01.23	Entire Document
Foreword	Foreword to introduce the document.	Cora Skaien 2017.02.02	Foreword
Final Draft	Comments from 1st Draft implemented. Spelling and grammar reviewed.	George Hill 2017.02.02	Entire Document
2017 Management Plan Published	Final grammar and spelling checks. Printed copies executed and signed by VOC President	Cora Skaien George Hill 2017.02.02	Entire Document
2018 Huts Management Plan Draft	Modified Julian Harrison Hut document to encompass all VOC Huts.	George Hill 2018.03.07	Entire Document
Second Draft	Finished all content. Request for forward from President and spell check.	George Hill 2018.06.12	Entire Document
Third Draft	Foreword and Grammar, Spell, Content check	Alastair White 2018.06.21	Entire Document Foreword
Fourth Draft	Content Tweaks, Addition of Financial Appendix	George Hill Krista Cawley 2018.07.07	Entire Document Financial Appendix
2018 Management Plan Published	Printed copies executed and signed by VOC President	Alastair White George Hill 2018.07.12	Entire Document

2019 Management Plan Draft	First update	George Hill 2018.09.27	Entire Document
2019 Management Plan Draft	Second Update	George Hill 2018.12.23	Entire Document
2019 Management Plan Draft	Third Update	George Hill 2018.01.04	Entire Document
2019 Management Plan Draft	Fourth Update	George Hill 2019.01.30	Policy (V7) and (V8) approved by Exec.
2019 Management Plan Draft	Fifth Update	George Hill 2019.02.04	Moved financial appendix to its own separate document: Huts and Trails Financial Report.
2019 Management Plan Draft	Sixth Update	George Hill 2019.02.11	New Policies (V9) and (V10).
2019 Management Plan Published	Printed Copies. Signed and Executed.	George Hill Haley Foladare Alastair White 2019.03.28	Policy (V3) revised and approved.