2019 FINAL REPORT

YUKON MINERAL EXPLORATION PROGRAM

Placer Module

YMEP19-037

Granite Creek

MAYO MINING DISTRICT, YUKON TERRITORY

For

Earth & Iron Inc.

By

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Location: 63°49’38” N to 63°51’35” N; 134°43’39” W to 135°3’49” W
NTS: 105M14/105M15
Mining District: Mayo
Date: November 5, 2019

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Executive Summary

The following is the final report on exploration conducted in the Granite Creek drainage under grant YMEP19-037 from the Yukon Mineral Exploration Program (YMEP), Placer Module.

The property is located in central Yukon approximately 480 km by road from Whitehorse. Access is gained from Whitehorse via Stewart Crossing on the Klondike Highway (353 km), followed by a distance of 52 km east on the Silver Trail to Mayo. Approximately 17 km north of Mayo towards Keno City is the turnoff to Duncan Creek, where the road runs 29 km to a left turnoff near the Mayo dam. The new access road runs a further 21 km, along the north shore of Mayo Lake, following Keystone Creek from its mouth to the Earth & Iron camp at the headwaters of Granite and Keystone creeks.

Earth & Iron Inc. currently holds an active Type B Water Use Licence on Granite Creek; PM17-009 (expiry May 2, 2027). Earth & Iron is also operating by agreement under Water Use License PM12-012 (Jim Davies). PM12-012 expires July 1, 2022.

Mount Hinton is the locale for a bedrock gold source (MINFILE 105M052) which consists of a series of mineralized vein-faults hosted in both the Triassic Galena Suite Gabbro and the Carboniferous Keno Hill Quartzite. Coarse nuggets of placer gold have been mined from a sequence of glacial tills on the east side of Mount Hinton, where over 5000 crude ounces of gold have been reported in the last three years.

Previous exploration in 2017 and 2018 on Granite Creek by Earth & Iron Inc. consisted of 25 R/C drill holes (394 m) and 38 resistivity geophysical surveys totalling 10 km. These exploration programs resulted in the successful discovery of an economic deposit on the left-limit of upper Granite Creek, and focused further exploration to areas on the left-limit and immediate downstream reaches.

In 2019, the YMEP-supported exploration program consisted of 3.75 km of geophysical surveys, 6.2 creek-miles of drone imagery, over 60m of reverse circulation (R/C) drilling, and small-scale bulk sampling. The resistivity surveys were successful in identifying contacts along contrasting zones of high, moderate and low resistivity, which were attributable in varying degrees to glacial till, glaciofluvial gravel, alluvial gravel, glacial silt and bedrock units. The R/C drilling, although limited in scope in this area, assisted in interpreting the subsurface stratigraphy and the bedrock profile as well as in evaluating the placer gold content of the lithologies within the stratigraphic column.

Drill hole GC19-04 intercepted a reddish soil-like layer with rounded gravel between 22 and 25 metres. This may be a paleosol developed on a pre-McConnell (interglacial) alluvial layer, which is highly prospective for placer gold in Granite Creek valley. This target is worthy of more extensive exploration.

Sixteen new exploration drill targets are proposed, with interpreted depths between 11m and 35m below surface. Further exploration on Granite Creek should include drone imagery, resistivity geophysical surveys, and drilling of paleochannel targets using R/C methods. Drill targets which return promising gold results and/or intersect prospective stratigraphy should then be explored by excavator test pitting and large-scale bulk sampling.

Introduction

The following is the final report on the exploration program on Granite Creek, under grant YMEP19-037, Yukon Mineral Exploration Program (YMEP), Placer Module. The exploration program included resistivity geophysical surveys, reverse circulation (R/C) drilling, drone imagery and small scale bulk sampling.

Location and Access

The property is located in central Yukon approximately 480 km by road from Whitehorse (Figure 1). Access is gained from Whitehorse via Stewart Crossing on the Klondike Highway (353 km), followed by a distance of 52 km east on the Silver Trail to Mayo. The turnoff to the Duncan creek road is approximately 17 km from Mayo along the Silver trail towards Keno City. The road then runs 29 km to the north (left) turnoff near the Mayo dam. The new access road runs a further 21 km, along the north shore of Mayo Lake, then along Keystone Creek from its mouth to the joint headwaters of Granite and Keystone creeks.

Placer Mineral Tenure

Earth & Iron Inc. and its affiliates currently hold 279 active placer claims in the Granite Creek drainage. Appendix 3 gives the anniversary dates and current status of the claims, and the area encompassed by the claims in all areas is also shown in Figure 3.

Quartz Mineral Tenure

Active quartz claims in the Granite Creek drainage are held by several owners including Archer, Cathro & Associates (1981) Limited, Taku Gold Corp., Metallic Minerals Inc. and Shawn Ryan. Earth & Iron Inc. and its affiliates hold no quartz tenure in the area.

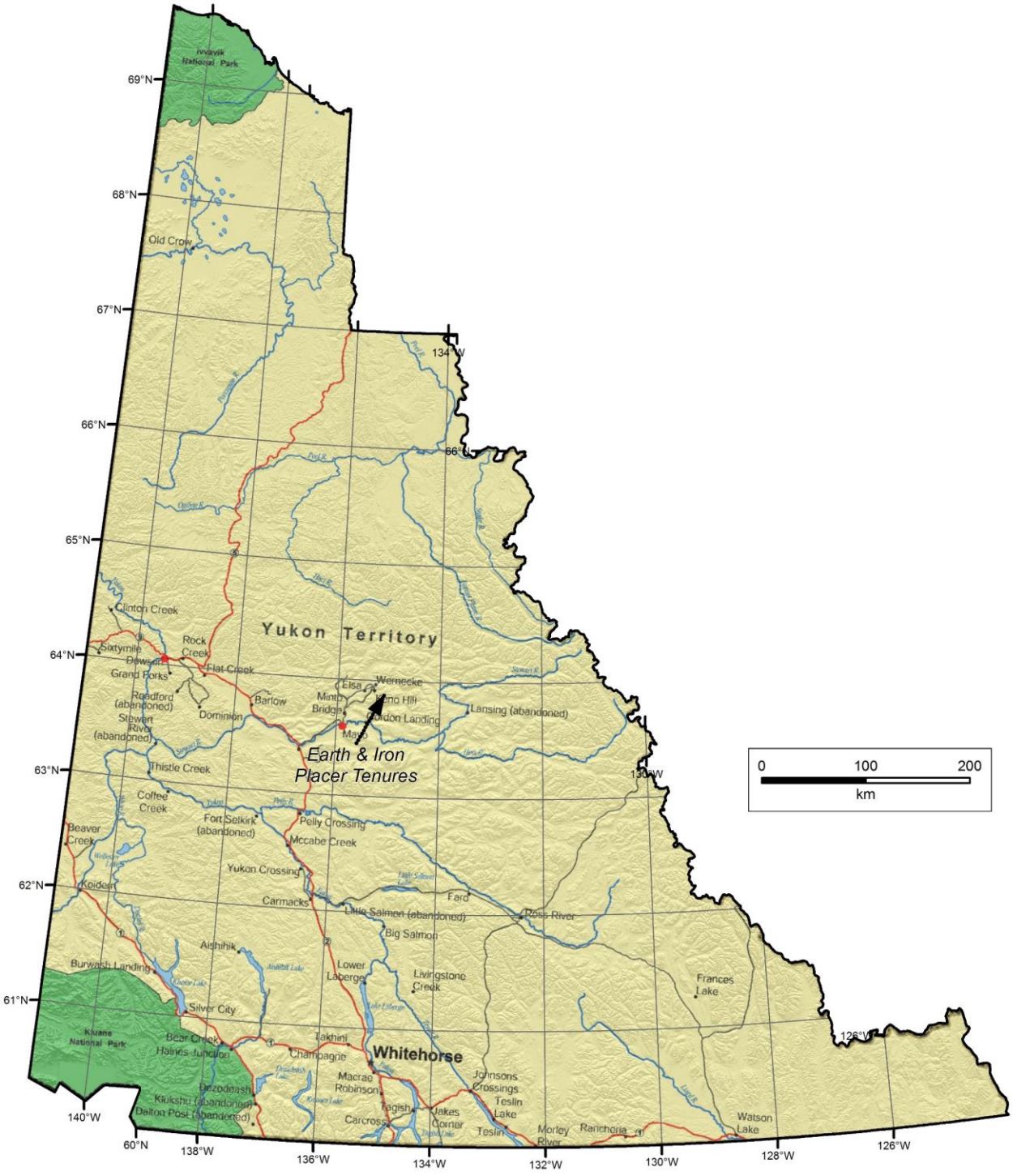


Figure 1 - General Location of Granite Creek Placer Project, Yukon.

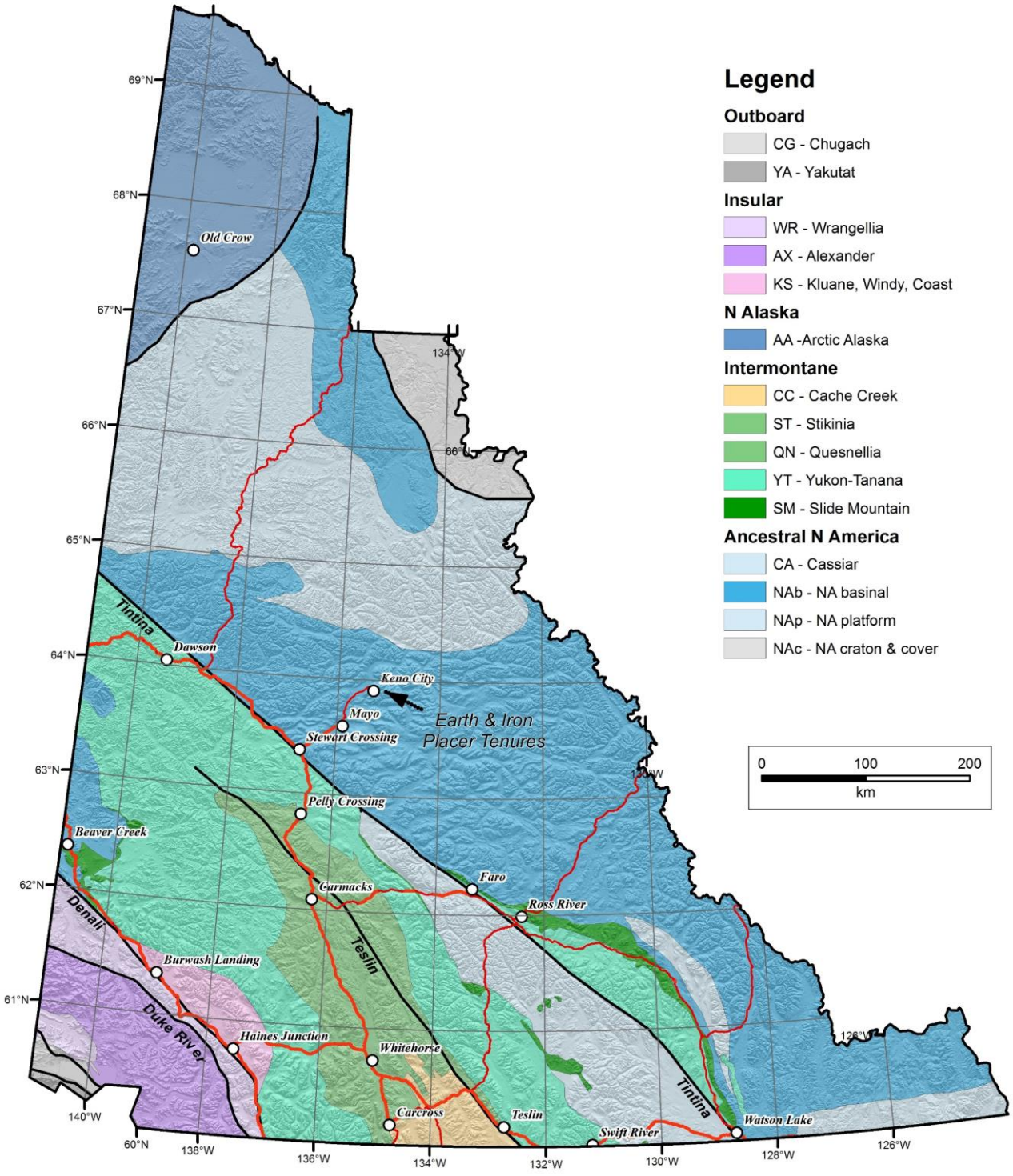


Figure 2 - Geological Map of Yukon, showing major bedrock terranes and structural elements. Modified after Yukon Geological Survey, 2019.

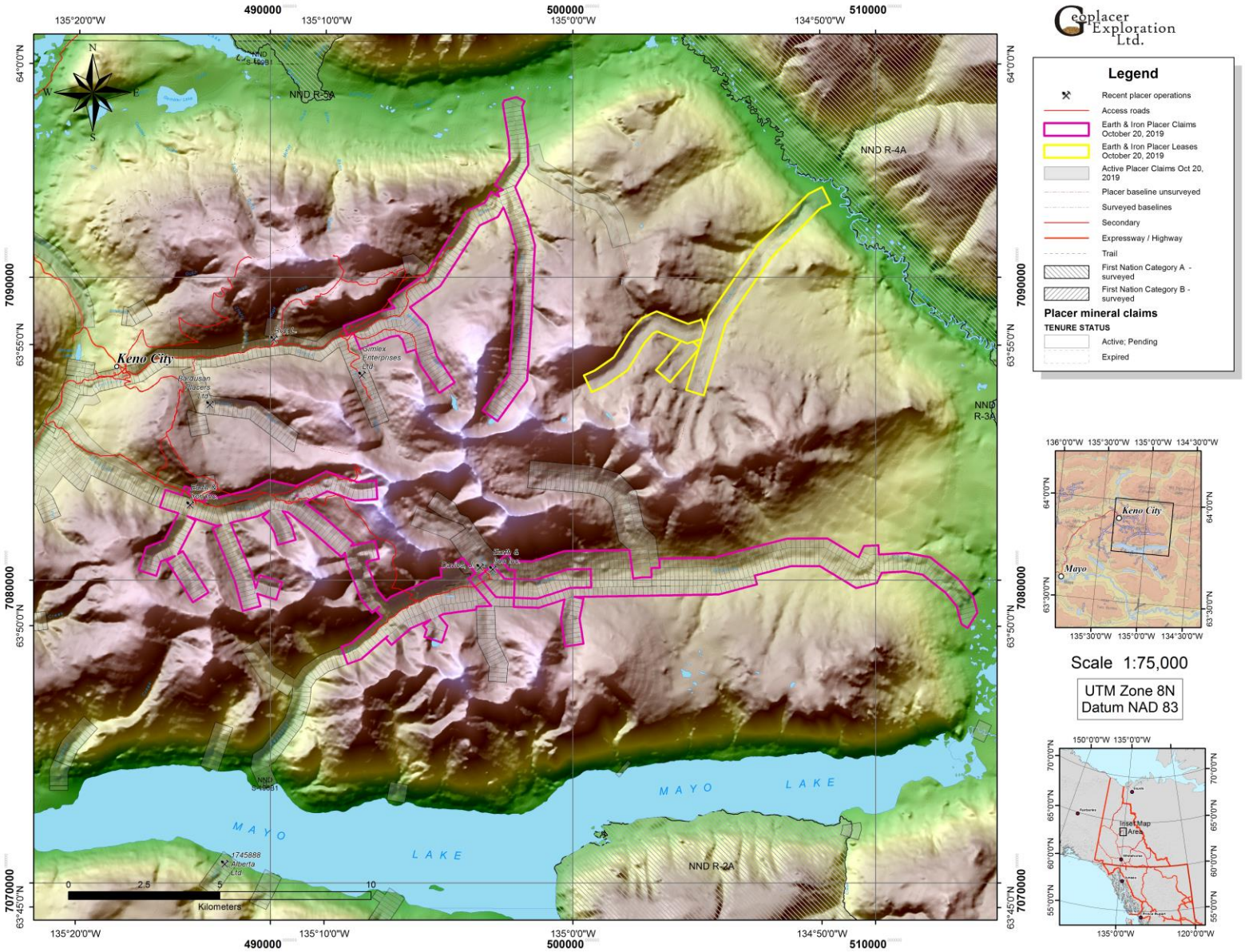


Figure 3– Location of the Granite Creek, Lightning Creek and Keystone Creek areas showing areas covered by Earth & Iron Inc. placer holdings.

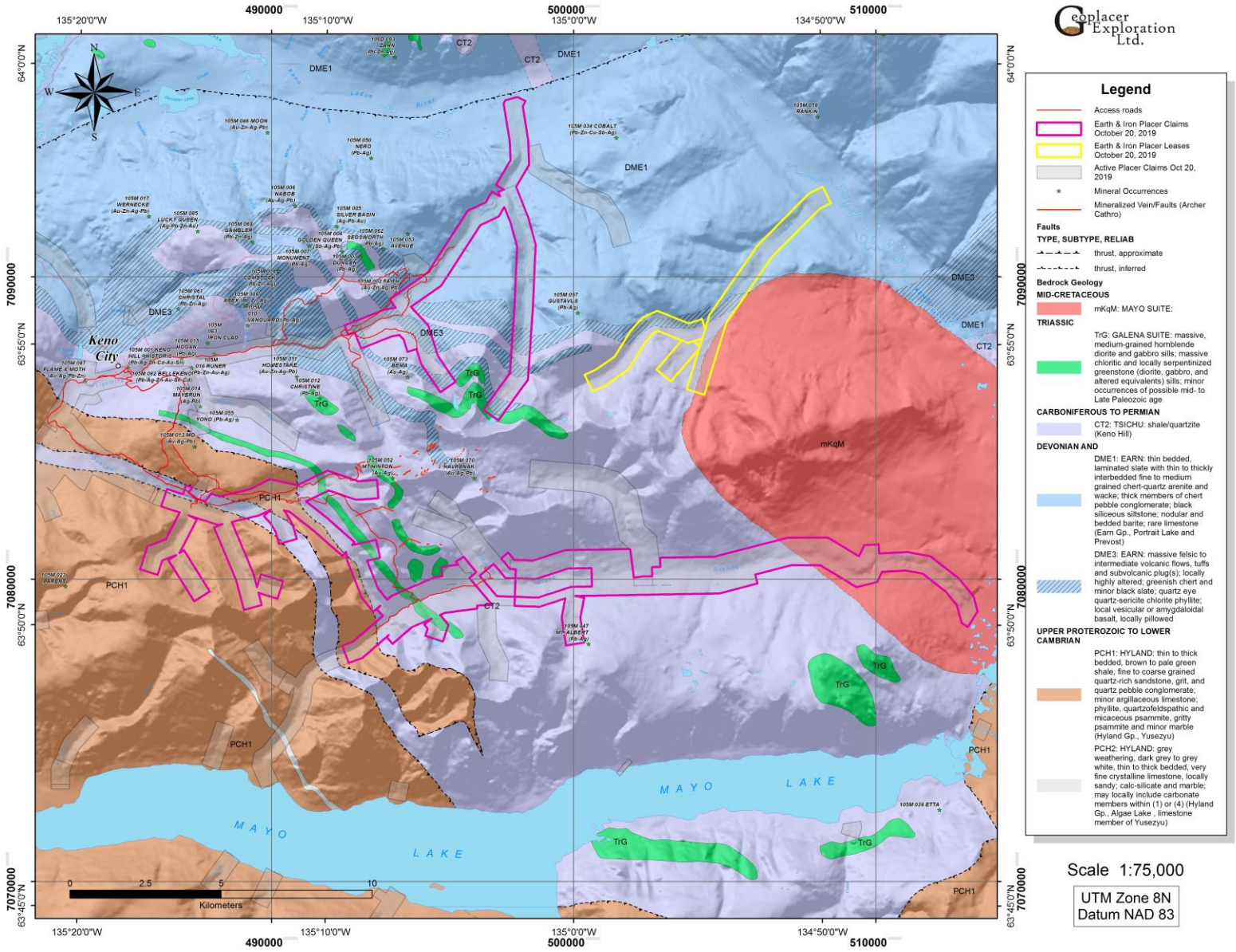


Figure 4 - Bedrock geology and mineral occurrences of Granite Creek, Lightning Creek and Keystone Creek areas, Mayo Mining District, after Yukon Geological Survey, 2019. Mineralized vein-faults digitized from Wengzynowski, 2008 (EMR Assessment report 095613).

Permitting

Earth & Iron Inc. currently holds an active Type B Water Use Licence on Granite Creek; PM17-009 (expiry May 2, 2027). Earth & Iron is also operating by agreement under Water Use License PM12-012 (Jim Davies). PM12-012 expires July 1, 2022.

Regional Bedrock Geology

Murphy (1997) and Roots (1997a, 1997b) mapped and described the McQuesten and Keno Hill area, and various researchers (Stephens et al., 2004; Hart et. al., 2002; Colpron and Ryan, 2010) have described the tectonic setting and mineral deposits throughout the region.

Figure 2 is a geological map of Yukon, showing major bedrock terranes and structural elements. The Earth & Iron Inc. properties in the Keno Hill district lie east of the Tintina Fault, within Ancestral North America in the *Nab* (North American basinal) terrane. In that part of the western Selwyn basin,dominantly clastic sedimentary rocks were deposited in an off-shelf setting in a period from the latest Neoproterozoic to the Carboniferous (Stephens et al., 2004).

The Keno Hill district is part of the Tombstone Gold Belt (Stephens et al, 2004), a subset of the Tintina Gold Province (Hart et al., 2002). This area is characterized by a northerly-directed, fold-and-thrust belt which developed in the Late Jurassic to Early Cretaceous (Roots, 1997a, 1997b; Murphy, 1997). The Dawson, Tombstone and Robert Service thrusts are the products of this deformation across the northern part of the basin (Murphy and Roots, 1996; Roots, 1997a).

The Robert Service Thrust sheet contains Hyland Group (Late Proterozoic to Cambrian) sandstone and grit with rare limestone and minor maroon argillite, overlain by a Cambrian to Middle Devonian succession of dark coloured siltstone, limestone and chert. These strata, a component of the regional Selwyn Basin, are unconformably overlain by Upper Devonian Earn Group argillite, chert and chert pebble conglomerate (Murphy, 1997; Roots, 1997a, 1997b). To the north, the Tombstone Thrust sheet consists of highly strained Earn Group carbonaceous phyllite, felsic meta-tuff and metaclastic rocks, succeeded by Carboniferous Keno Hill quartzite that is thickened by internal recumbent folds or thrusts in the north central part of the map area. These units host the Ag-Pb-Zn veins of the Elsa-Keno Hill camp and the Au veins of the Mount Hinton area (Roots, 1997a, 1997b). Jurassic (?) and Cretaceous contraction produced regionally developed penetrative fabrics and folds of various scales as well as thrust faulting. A domain of intensely-developed foliation and lineation underlies the northern half of the map area, imparted during two or more phases of movement on the Tombstone Thrust (Roots, 1997a, 1997b).Two main intrusive suites of rock were emplaced into the western Selwyn basin after the regional deformation; the McQuesten Intrusive Suite, and the Tombstone Plutonic Suite (Murphy, 1997). The Tombstone Suite was emplaced around 92 Ma, and its rocks are associated with the Tombstone Gold Belt deposits in Yukon (Brewery Creek, Dublin Gulch, Scheelite Dome and Clear Creek) as well as the Pogo, Fort Knox and Donlin Creek deposits in Alaska (Hart et al., 2002).

Mineral Occurrences

The Roop Lakes batholith, which outcrops in the eastern part of the project area, is a late Cretaceous granite, quartz monzonite and granodiorite intrusion of the Tombstone Suite. It is widely-held to be the probable heat source for epi- and meso-thermal veins of the Elsa-Keno Hill mining camp (Roots, 1997a, 1997b).

Table 1 lists YUKON MINFILE (Yukon Geological Survey, 2019) mineral occurrences in the Keno Hill district. Most of these occurrences are polymetallic veins, consisting of silver, lead and zinc with various amounts of accessory gold. The host rock is mainly the Carboniferous Keno Hill Quartzite, however some veins are hosted in carbonaceous phyllite, felsic meta-tuff and metaclastic rocks of the Devonian Earn Group. A few mineralized polymetallic veins are hosted in the metaclastic rocks of the Late Proterozoic to Cambrian Hyland Group.

Table 1 – Selected Mineral Occurrences, Keno Hill and Upper Duncan area, from MINFILE (Yukon Geological Survey, 2019).

MINFILE NUMBER	DEPOSIT TYPE	STATUS
105M 001 KENO HILL - HISTORIC (Pb-Ag-Zn-Cd-Au-Sn)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 002 FAITH (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 003 DUNCAN (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 004 GOLDEN QUEEN (Sb-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 005 SILVER BASIN (Ag-Pb-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Prospect
105M 006 NABOB (Au-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 007 MONUMENT (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 008 COMSTOCK (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 009 APEX (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 010 VANGUARD (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 011 HOMESTAKE (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 012 CHRISTINE (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Prospect
105M 013 MO (Au-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 014 MAYBRUN (Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 015 HOGAN (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 016 RUNER (Pb-Zn-Au-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 017 WERNECKE (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 018 FORMO (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 020 PADDY (Pb-Ag-Zn-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 021 EAGLE (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 022 FISHER (Au-Zn-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Anomaly
105M 023 PARENT	Unknown	Anomaly
105M 024 CREAM AND JEAN (Pb-Zn-Cu-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 025 NORD (As-Zn-Ag-Pb-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect

MINFILE NUMBER	DEPOSIT TYPE	STATUS
105M 047 MT ALBERT (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 050 NERO (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 052 MT HINTON (Au-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 053 AVENUE	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 055 YONO (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 061 CHRISTAL (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 062 SEGSWORTH (Pb-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 063 IRON CLAD	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 069 GAMBLER (Pb-Zn-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Past Producer
105M 070 HAVRENAK (Au-Ag-Pb)	Vein Polymetallic Ag-Pb-Zn+/-Au	Drilled Prospect
105M 073 BEMA (Au-Ag)	Vein Polymetallic Ag-Pb-Zn+/-Au	Showing
105M 082 BELLEKENO (Pb-Ag-Zn-Au-Sn-Cd)	Vein Polymetallic Ag-Pb-Zn+/-Au	Producer
105M 084 ONEK (Ag-Pb-Au-Zn-In)	Vein Polymetallic Ag-Pb-Zn+/-Au	Deposit
105M 085 LUCKY QUEEN (Ag-Pb-Zn-Au)	Vein Polymetallic Ag-Pb-Zn+/-Au	Deposit
105M 087 FLAME & MOTH (Au-Ag-Pb-Zn)	Vein Polymetallic Ag-Pb-Zn+/-Au	Deposit

Local Bedrock Geology

Figure 4 shows the bedrock geology and mineral occurrences of the Granite Creek, Lightning Creek and Keystone Creek areas, modified from Roots, 1997b and Yukon Geological Survey, 2019. Mineralized vein/faults have been added from Wengzynowski, (2008).

Figure 5 shows the bedrock of Granite Creek area in more detail. Central to the project area is the Carboniferous to Permian Keno Hill Quartzite (map unit CT2). At the headwaters of Granite Creek are northwest-trending outcrops of the Triassic Galena Suite hornblende diorite and gabbro (map unit TrG). The Roop Lakes batholith (map unit mKqM) outcrops on the eastern extent of the field area in the downstream reaches of Granite Creek. Hyland Group metasediments (map unit PCH1) outcrop on the downstream reaches of Keystone Creek and are separated from the Keno Hill Quartzite by the Robert Service thrust fault.

The closest mineral occurrences include the Mt. Albert lead-silver vein (MINFILE 105M047), the Mount Hinton gold-silver veins (MINFILE 105M 052) and the Havrenak gold-silver lead veins (MINFILE 105M070).

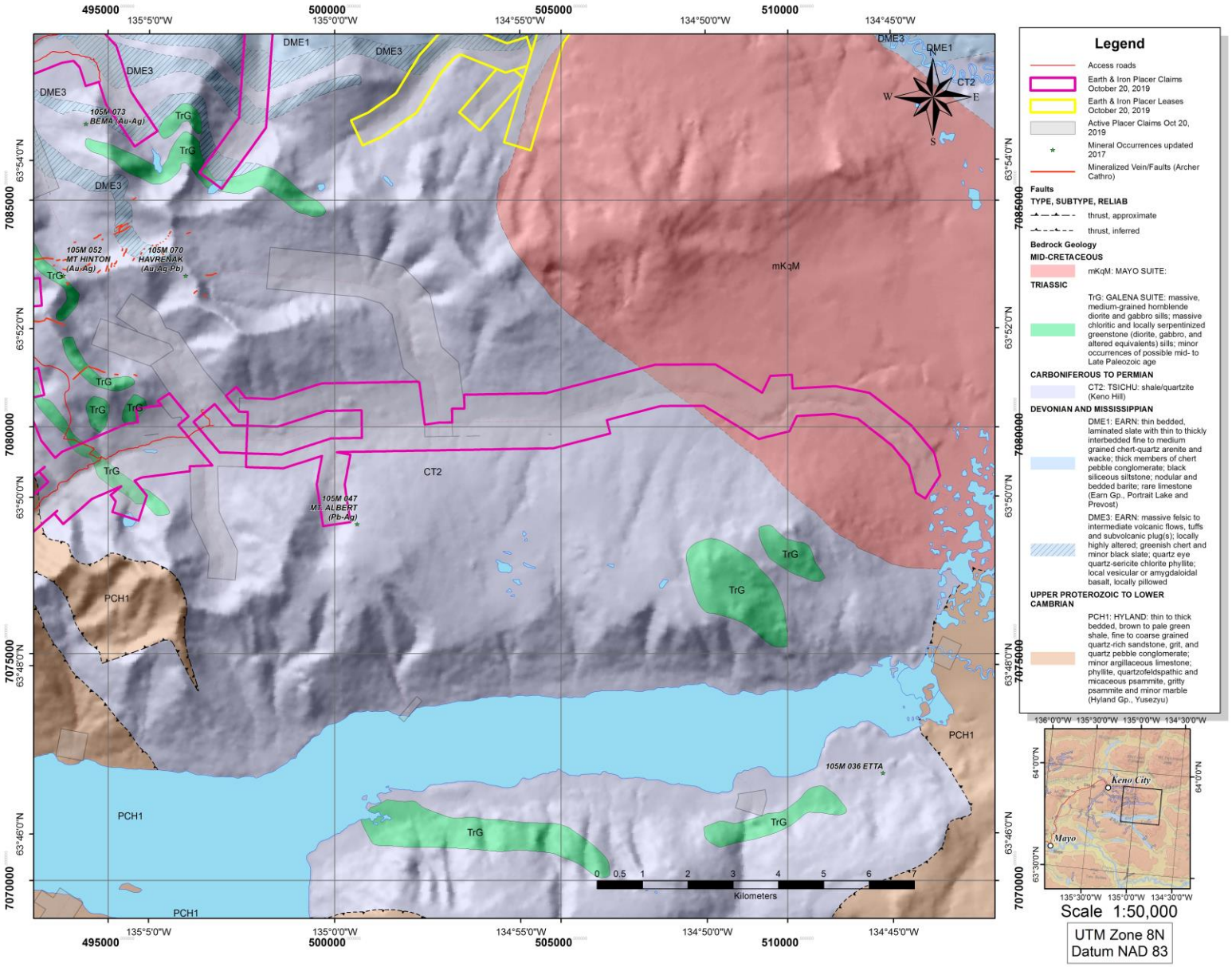


Figure 5 – 1:50 000 scale map of bedrock geology of the Granite Creek and Mayo Lake areas, including mineral occurrences from Yukon Minfile (Yukon Geological Survey, 2019).

Quaternary History

In the Mayo area, a minimum of four regional glaciations and two interglacial periods have influenced the deposition and erosion of sediments over the last 2.5 million years (Duk-Rodkin et. al., 2010; LeBarge et. al., 2002; Bond, 1996, 1997; Jackson et al., 2001). Glaciations include the pre-Reid (multiple early to mid-Pleistocene glaciations), Reid (130,000 years), and McConnell (14,000 -29,600 years). Warm, interglacial periods are indicated by relict paleosols such as the pre-Reid Wounded Moose paleosol (Tarnocai and Schweger, 1991) and the Reid-age Diversion Creek paleosol (Smith et al., 1986).

During their maximum extent, pre-Reid ice sheets completely covered the Mayo/Keno Hill area. Undifferentiated pre-Reid surficial materials (moraine, glaciofluvial and glaciolacustrine deposits) are thick in the lowlands of Klondike Plateau and Tintina Trench, especially in areas proximal to the terminus of the pre-Reid glaciations.

During the subsequent Reid glaciation, glacial ice advanced from cirques formed in topographic highs such as Mount Hinton and Mt. Haldane, and coalesced with Cordilleran ice lobes which were advancing up-valley into the alpine areas. This resulted in a complex overlap assemblage of local alpine glacial sediments and more regionally-derived glacial sediments.

During the most recent (McConnell) glaciation, ice once again advanced from cirques in mountainous centres, however their advance was much less extensive than during previous glaciations. In most cases, McConnell ice advanced only short distances down-valley from their origins in the valley heads, depositing terminal moraines in the upper reaches of most valleys.

Figure 6 shows glacial limits and ice-flow directions for the Reid and McConnell glaciations in the Mayo area, after Bond (1999). It is evident that McConnell alpine ice and regionally-derived glacial ice were advancing in opposing directions on upper Granite Creek. Bond (2017, pers. comm.) has indicated that the timing of the alpine versus regional ice advances in upper Granite Creek is problematic, however geomorphologic evidence suggests that some of the regional ice advanced over retreating alpine ice in the divide between Keystone and Granite Creeks.

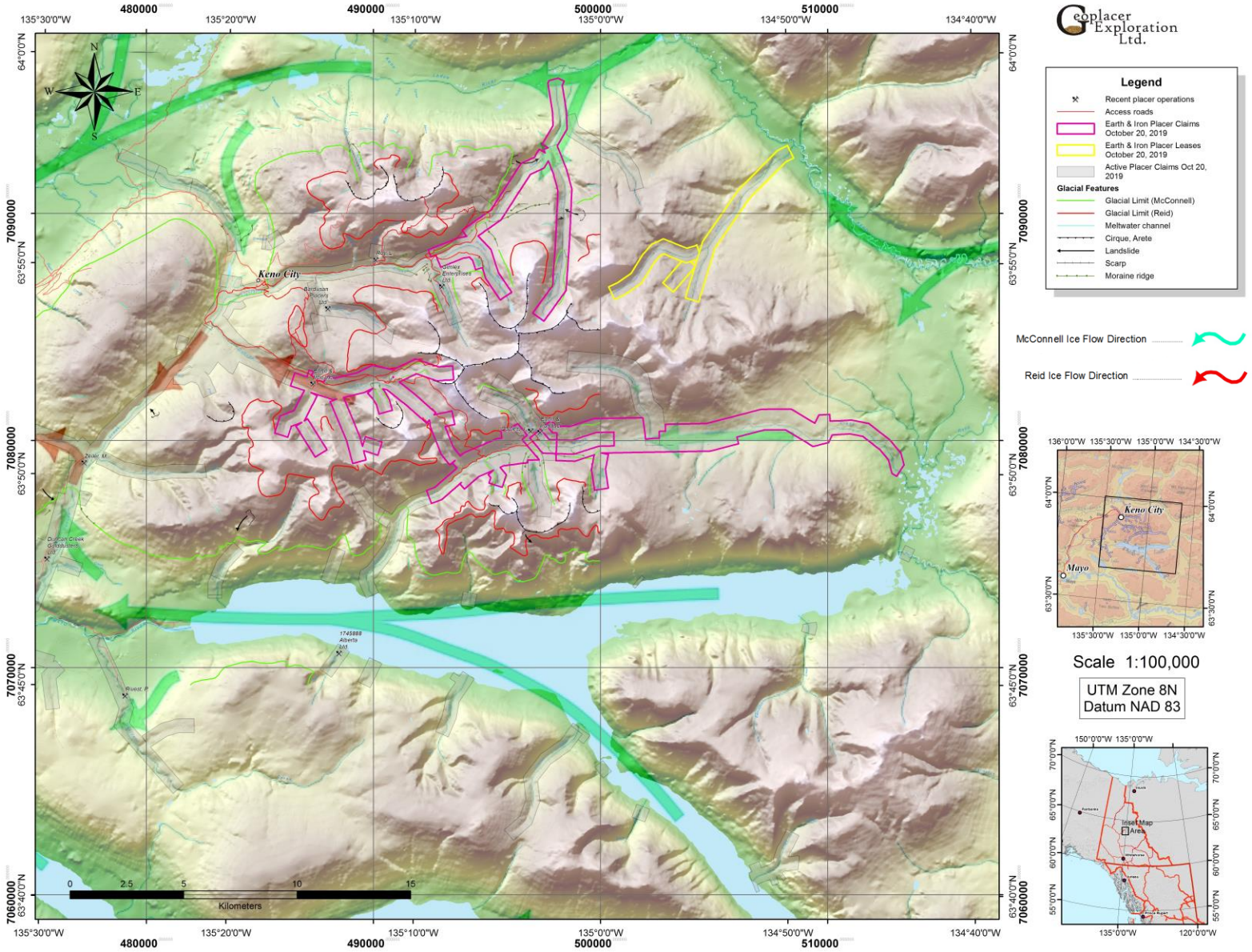


Figure 6 – 1: 100 000 scale map of glacial limits and ice-flow directions, Upper Duncan Creek, Lightning Creek and Mayo Lake area, Mayo Mining District (after Bond, 1999).

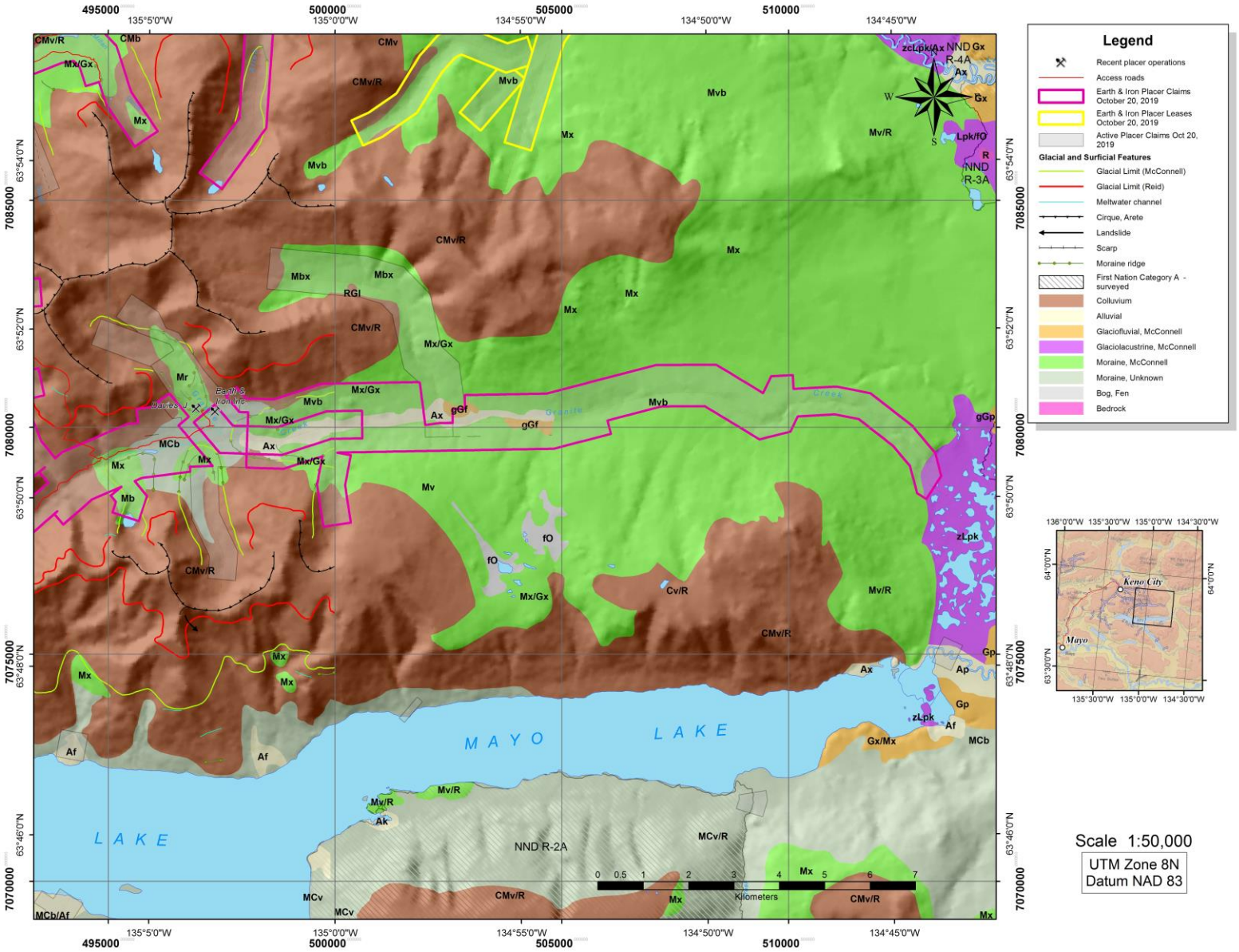


Figure 7 – 1: 50 000 scale map of surficial geology, Granite Creek and Mayo Lake, Mayo Mining District (after Yukon Geological Survey, 2019; and Bond, 1998).

Surficial Geology

Figure 7 is a 1:50,000 scale surficial map of the Granite Creek drainage (modified after Bond, 1998). Unconsolidated sediments in the Gustavus Range and the surrounding plateaus consist mainly of deposits from Cordilleran valley glaciers (continental ice sheet), alpine glaciers (local montane glaciers), colluvium, and minor alluvium. The surficial geology of the project area is complex, which is a result of the multiple glacial events that have occurred there over the last 1.5 million years.

The hills above the main drainages of Duncan, Upper Duncan, Lightning and Granite creeks are mantled with colluvial deposits (veneers, blankets and aprons), while glacial erratics are found in the ridge tops and uppermost slopes. These were deposited when the pre-Reid glacial ice overtopped the hills in the region (LeBarge et.al., 2002; Bond, 1998).

Within and below the Reid glacial limit (shown as the red line in Figure 7), remnant deposits of Reid-age till line the valley bottoms and edges, and Reid glaciofluvial outwash channels lie along valley edges and on intervalley divides between third and fourth order drainages. In the lower reaches of Upper Duncan Creek, Reid-age till lies at the surface and confines the extent of the modern alluvial plain.

McConnell-age alpine till forms moraines in the headwaters of most local drainages including Upper Duncan Creek (Mount Hinton), Lightning Creek-McMillan Gulch, Allen Creek, Keystone Creek and Granite Creek. Regionally-derived till blankets of McConnell age cover the slopes and lower reaches of both Keystone Creek and Granite Creek, reaching as far as the headwaters that Granite Creek shares with Keystone Creek.

Deposits of McConnell glaciofluvial outwash lie as terraces along the valleys of Lightning Creek, Upper Duncan Creek and the upper to middle reaches of Granite Creek.

McConnell-age and younger alluvial and periglacial fans occur along the margins and at the mouths of Keystone and Granite Creek, most of which smaller than the scale of current mapping. These merge indistinctly with thin, discontinuous McConnell to modern age alluvial complexes which lie adjacent to modern stream courses.

Placer Exploration and Mining History

The discovery of placer gold in the Mayo district began on the Stewart River in 1883, when a party of prospectors worked from the mouth of the Stewart River to the McQuesten River. Between 1885 and 1886, it is estimated that up to 14,500 fine ounces (451 000 g) was recovered by hand (Mayo Historical Society, 1990).

In 1892, Ray Stewart discovered gold on the McQuesten River, and in 1895 placer gold was noted on Haggart Creek. Discovery claims were recorded on Johnson and Haggart Creeks in 1898, and around then a Swedish trio named Gustavson were hand mining at the canyon on Duncan Creek, approximately 15 km upstream from its confluence with the Mayo River. The Gustavsons mined the canyon deposit however had avoided recording their claim for fear of initiating another stampede. In 1901, some Dawson stampeders discovered their camp and the Gustavson trio lost their ground (Mayo Historical Society, 1990).

Soon the entire length of Duncan Creek was staked. Exploration in surrounding regions began shortly thereafter, and discoveries were posted on creeks flowing into Mayo Lake and in the Minto Creek region in 1903. Highet Creek was found to contain a significant quantity of gold. Rudolph Rosmusen and partners acquired an area of the bench opposite Rudolph Gulch and found the richest bench ground on the creek, yielding upwards of US$140 000 or 6773 fine ounces (210 664 g) of gold at US$20.67 per ounce. The amounts on these claims alone surpassed the total gold taken out of Duncan Creek in its first 14 years.

In 1920 the Highet Creek Dredging Co. attempted to dredge Highet Creek, however, this lasted only a year and a half due to the inability of the dredge to handle large boulders. Intermittent activity continued until an upsurge of mining occurred following the dramatic rise in the price of gold in the late 1970's and early 80's.

Modern methods of mining, utilizing large bulldozers and excavators have become prevalent, especially in areas that were once considered to be too deeply buried by barren glacial overburden. Although most modern mining is still concentrated on the creeks which were initially mined at the turn of the century, some new ground has been explored and mined on a few non-traditional creeks.

Historical records do not show any significant mining and exploration activity on either Keystone or Granite creeks, however lower Keystone Creek has been held for over 20 years by Frank Taylor. Granite Creek has had an active mining operation on its upper reaches since 2014 (Davies), with an active water license since 2012 (Van Loon and Bond, 2014). Earth & Iron Inc. started a mining operation on Granite Creek in 2018. Government placer gold royalty records prior to 1978 are incomplete, however more detail can be found in subsequent years, which are given in Table 2. This table shows that over 165,000 crude ounces have been recorded in the Mayo Mining District between 1978 and 2015. Placer gold royalties on Granite Creek are 1249 crude ounces in 2015 with an additional 2000 ounces reported in 2016 (Bond, pers. comm.). At least 2000 ounces are believed to have been produced both in 2017 and in 2018.

Table 2 - Placer gold production from reported gold royalties, Mayo Mining District. Figures are in crude (raw) ounces.

STREAM or RIVER	Tributary to	2011	2012	2013	2014	2015	1978-2015
Anderson	Mayo Lake	319.51	80.48	13.58			938
Bear (Van Bibber)	McQuesten						1448
Carlson	Minto						105
Davidson	Mayo River		113.9	310.6	884.6	735.46	4432
Dawn	Mayo Lake						15
Dirksen	Mayo Lake						31
Dublin Gulch	Haggart		3.2	16.3			13099
Duncan	Mayo River	294.54	236.44	241.7	246.03	279.36	34718
Empire	No Gold				7.54		1012
Gem	Sprague						428
Goodman	South McQuesten						37
Granite Creek	Mayo Lake					1249.16	1249
Haggart	McQuesten	3.05		3.7	2.8	2.39	24508
Highet	Minto		117.82	30.62	84.9	29.96	40450
Hope Gulch	Lightning						8
Jarvis	Minto			10.67			17
Johnson	McQuesten						5437
Ledge	Mayo Lake						5815
Lightning	Duncan		304.78			0.83	11624
McQuesten	Stewart					9.24	114
Minto	Mayo River			27.31	65.13	199.42	1547
Morrison	Seattle						16
Murphy's Pup	South McQuesten	5.35	18.294	21.5	15.56		159
Owl	Mayo Lake	153.01					3642
Russell	Macmillan						287
Seattle	McQuesten					83.6	292
Secret	Swede	79.16	148.81	155.3	224.92	20.77	693
Steep	Mayo Lake						709
Stewart	Yukon						872
Swede	Haggart		16.3				4347
Thunder	Lightning	532.96	394.29		578.8	508.06	5006
Vancouver	McQuesten						928
Various Mayo Creeks		10.3					1589
Total Mayo District		1397.88	1434.314	831.28	2110.28	3118.25	165569

2017 and 2018 Placer Exploration Programs

Overview

Figure 8 shows the location of the resistivity surveys and R/C drill holes which were conducted on Granite Creek in 2017 and 2018. The main target area was the left limit of Granite Creek, within the boundaries of the McConnell-age alpine moraine.

R/C Drilling

In the Granite Creek drainage, seven R/C drill holes totalling 139 m in depth were drilled in 2017, and 18 R/C drill holes totalling 255 m were drilled in 2018. The details are shown in Table 3. Some of the most promising placer gold results were found in drill hole GC18-18. The drill log for this hole is included in Appendix 1.

Table 3 - Coordinates and depths of 2017 and 2018 drill holes, Granite Creek.

Drill hole	Claim Location	Latitude	Longitude	Depth (m)
BRO17-01	BRODIE 7	63.849546	-135.0515861	26
BRO17-02	BRODIE 7	63.84937634	-135.0523899	29
BRO17-03	BRODIE 7	63.84984695	-135.0526649	24
BRO17-04	BRODIE 7	63.85054071	-135.0521545	14
BRO17-05	BRODIE 8	63.85053441	-135.0542446	14
BRO17-06	BENCH CLAIM LL 5	63.84993092	-135.0501262	14
BRO17-07	BRODIE 7	63.84993086	-135.0503257	18
GC18-01	BRODIE 8	63.85044	-135.054	16
GC18-02	BRODIE 8	63.85043	-135.054	19
GC18-03	BRODIE 8	63.85043	-135.054	15
GC18-04	BRODIE 7	63.84953	-135.054	18
GC18-05	BRODIE 7	63.8495	-135.054	18
GC18-06	BRODIE 7	63.84932	-135.054	18
GC18-07a	BRODIE 8	63.85005	-135.056	10
GC18-08	BRODIE 8	63.84992	-135.056	11
GC18-09	BRODIE 8	63.8498	-135.056	13
GC18-10	BRODIE 8	63.85012	-135.055	11
GC18-11	BRODIE 8	63.84989	-135.057	15
GC18-12	BRODIE 9	63.85066	-135.059	13
GC18-13	BRODIE 8	63.85117	-135.055	13
GC18-14	BRODIE 8	63.85113	-135.055	14
GC18-15	BRODIE 8	63.85058	-135.055	13
GC18-16	BRODIE 8	63.85061	-135.054	10
GC18-17	BRODIE 8	63.85036	-135.057	8
GC18-18	BRODIE 1	63.84655	-135.04	20

Geophysical Surveys

Twelve resistivity lines totalling 3291 m were surveyed in the Granite Creek drainage in 2017, and 26 survey lines totalling 6708 m were surveyed in 2018. Table 4 shows the coordinates, claim locations and lengths of the survey lines. The profile traces are plotted on Figure 8.

Table 4 - Coordinates, claim location and lengths of resistivity lines on Granite Creek in 2017 and 2018.

Survey Name	Claim Location	Start Point		End Point		Length (m)
		Latitude	Longitude	Latitude	Longitude	
RES17-DEAN1-01	DEAN 1	63.8488921	-135.038078	63.8512711	-135.03769	274
RES17-DEAN1-02	DEAN 1	63.8485231	-135.039674	63.8454507	-135.03855	365
RES17-BRODIE9-01	BRODIE 9	63.8514625	-135.058957	63.8534508	-135.0572	247
RES17-BRODIE7-04	BRODIE 7	63.849693	-135.054269	63.8504113	-135.05074	197
RES17-BRODIE7-03	BRODIE 7	63.8499508	-135.051073	63.8484959	-135.05439	234
RES17-BRODIE7-02	BRODIE 7	63.8492783	-135.052874	63.8515669	-135.05144	271
RES17-BRODIE7-01	BRODIE 7	63.8492551	-135.053447	63.85038	-135.04853	286
RES17-BRODIE2-01	BRODIE 2	63.8468494	-135.044073	63.8486264	-135.04133	260
RES17-BRODIE12-01	BRODIE 11	63.8537928	-135.064267	63.8515754	-135.0694	388
RES17-BRODIE11-01	BRODIE 11	63.8528352	-135.062571	63.8518373	-135.06551	191
RES17-B8BENCH-01	BRODIE 8	63.8516765	-135.051505	63.8499749	-135.0558	295
RES17-B6BENCH-01	BENCH CLAIM LL 4	63.8489354	-135.048043	63.8507721	-135.04479	282
RES18-DEANBENCH-02	ALEX 4	63.850528	-135.032086	63.851686	-135.02944	198
RES18-DEANBENCH-01	ALEX 3	63.850425	-135.03592	63.852	-135.03615	177
RES17-DEAN7-02	DEAN 7	63.84832	-135.019532	63.848589	-135.02314	190
RES18-DEAN7-01	DEAN 7	63.848406	-135.020118	63.849991	-135.01923	204
RES18-DEAN3-02	DEAN 3	63.849682	-135.032754	63.852141	-135.03305	297
RES18-DEAN3-01	DEAN 3	63.847383	-135.030828	63.849668	-135.03288	307
RES18-DEAN2-01	DEAN 2	63.847967	-135.035749	63.850535	-135.03521	305
RES18-DEAN1-01	DEAN 1	63.849585	-135.03905	63.85197	-135.03942	280
RES18-BRODIE8-02	BRODIE 8	63.849984	-135.054152	63.851378	-135.05724	236
RES18-BRODIE8-01	BRODIE 8	63.850296	-135.058422	63.848828	-135.0543	262
RES18-BRODIE7-04	BRODIE 7	63.848388	-135.054348	63.849194	-135.04966	260
RES18-BRODIE7-03	BRODIE 7	63.848028	-135.056289	63.84774	-135.06196	295
RES18-BRODIE7-02	BRODIE 7	63.848649	-135.055909	63.84802	-135.06133	302
RES18-BRODIE7-01	BRODIE 7	63.849032	-135.052801	63.848666	-135.04695	304
RES18-BRODIE6-01	BRODIE 6	63.848165	-135.053283	63.849027	-135.04836	274
RES18-BRODIE18-01	BRODIE 18	63.860494	-135.077509	63.861307	-135.07426	197
RES18-BRODIE16-01	BRODIE 16	63.858669	-135.072044	63.85921	-135.06837	208
RES18-BRODIE14-01	BRODIE 14	63.857042	-135.072814	63.857913	-135.0655	399
RES18-BRODIE12-02	BRODIE 12	63.851959	-135.069355	63.854084	-135.0658	310
RES18-BRODIE12-01	BRODIE 12	63.853764	-135.064759	63.855295	-135.06407	185

Survey Name	Claim Location	Start Point		End Point		Length (m)
RES18-BRODIE11-02	BRODIE 11	63.851697	-135.06516	63.85408	-135.06781	316
RES18-BRODIE11-01	BRODIE 11	63.853428	-135.064175	63.854812	-135.06275	189
RES18-B8BENCH-04	BRODIE 8	63.850856	-135.050876	63.85031	-135.05469	203
RES18-B8BENCH-03	BRODIE 8	63.85159	-135.05148	63.851072	-135.05607	258
RES18-B8BENCH-02	BRODIE 8	63.85126	-135.051174	63.850921	-135.05655	278
RES18-B8BENCH-01	BRODIE 8	63.850966	-135.050924	63.850633	-135.05618	274

Conclusions and Recommendations

Table 5 shows the coordinates and depths of the drill targets identified by the geophysics program conducted in 2017 and 2018. Many of these targets were subsequently drilled and developed, which demonstrates the advantages of using geophysics and drilling to evaluate promising placer targets such as buried paleochannels. In fact, this methodology resulted in the successful discovery of an economic deposit on the left-limit of upper Granite Creek, which was the focus of full scale mining at the end of the 2018 season and for all of the 2019 season.

The presence of this deposit in this location expanded the focus of future exploration to areas on the left-limit and downstream reaches of Granite Creek.

Table 5 - Drill targets as interpreted from geophysical surveys conducted in 2017 and 2018. Two of these targets (highlighted) were drilled in 2019. Actual depths of the drilled targets are also noted.

Target Name (Drill Hole)	Claim Location	Resistivity Line	Target Depth - m	Latitude	Longitude
2018-G1	BENCH CLAIM LL 1	RES17-DEAN1-02	15	63.84779995	-135.0394941
2018-G2	TINA 17	RES17-DEAN1-02	16	63.8460494	-135.0388075
2018-G3	ALEX 2	RES18-DEAN1-01	26	63.85138091	-135.0393025
2018-G4	ALEX 2	RES17-DEAN1-01	27	63.85058381	-135.037748
2018-G5	ALEX 4	RES18-DEAN3-02	25	63.85108045	-135.0329576
2018-G6	BRODIE 8	RES17-BRODIE9-01	16	63.8519217	-135.0584091
2018-G7	ALEX 2	RES18-DEAN1-01	35	63.85094531	-135.0392341
2018-G8	BRODIE 8	RES17-BRODIE9-01	15	63.85268079	-135.0578792
2018-G9	ALEX 3	RES18-DEANBENCH-01	10	63.85143495	-135.0360924
2018-G10	ALEX 3	RES18-DEANBENCH-01	14	63.8511091	-135.0359865
2018-G11	ALEX 4	RES18-DEANBENCH-02	15	63.85085373	-135.0314207
2018-G12	ALEX 4	RES18-DEANBENCH-02	17	63.85104438	-135.0306295
2018-G13	DEAN 3	RES18-DEAN3-01	20	63.84838287	-135.0316872
2018-G14	DEAN 3	RES18-DEAN3-01	22	63.84878104	-135.031821
2018-G15	DEAN 7	RES18-DEAN7-01	15	63.84952458	-135.0192289
2018-G16	DEAN 7	RES18-DEAN7-01	7	63.84876566	-135.0197725
2018-G17	DEAN 7	RES18-DEAN7-02	16	63.84840156	-135.0208563
2018-G18	BENCH LL 2	RES17-BRODIE2-01	12	63.84797592	-135.0422752
2018-G19	BRODIE 6	RES18-BRODIE7-04	23	63.84887644	-135.0514974
2018-G20	BRODIE 6	RES18-BRODIE7-04	18	63.84862976	-135.0528758
2018-G21	BRODIE 6	RES18-BRODIE6-01	25	63.84859992	-135.0512274
2018-G22	BRODIE 6	RES18-BRODIE6-01	20	63.84835333	-135.0523802
2018-G23	BRODIE 6	RES18-BRODIE7-01	12	63.84899934	-135.0514153
2018-G24	BRODIE 7	RES17-BRODIE7-03	30	63.84913664	-135.0528202
2018-G25	BRODIE 7	RES17-BRODIE7-03	20	63.84893352	-135.0532441
2018-G26	BRODIE 1	RES18-BRODIE1-01	21	63.84573706	-135.0396591
2018-G27	BRODIE 1	RES18-BRODIE1-01	24	63.84532834	-135.0400412
2018-G28 (GC19-04)	BRODIE 3	RES18-BRODIE3-01	28 (25)	63.84662715	-135.0494309
2018-G29	BRODIE 5	RES18-BRODIE-02	30	63.84625795	-135.052987
2018-G30	BRODIE 5	RES18-BRODIE5-01	21	63.84628426	-135.0510729
2018-G31	BRODIE 5	RES18-BRODIE5-01	21	63.84529694	-135.0524042
2018-G32 (GC19-05)	PILKEY	RES18-BRODIE3-01	22 (19)	63.84642045	-135.0481879

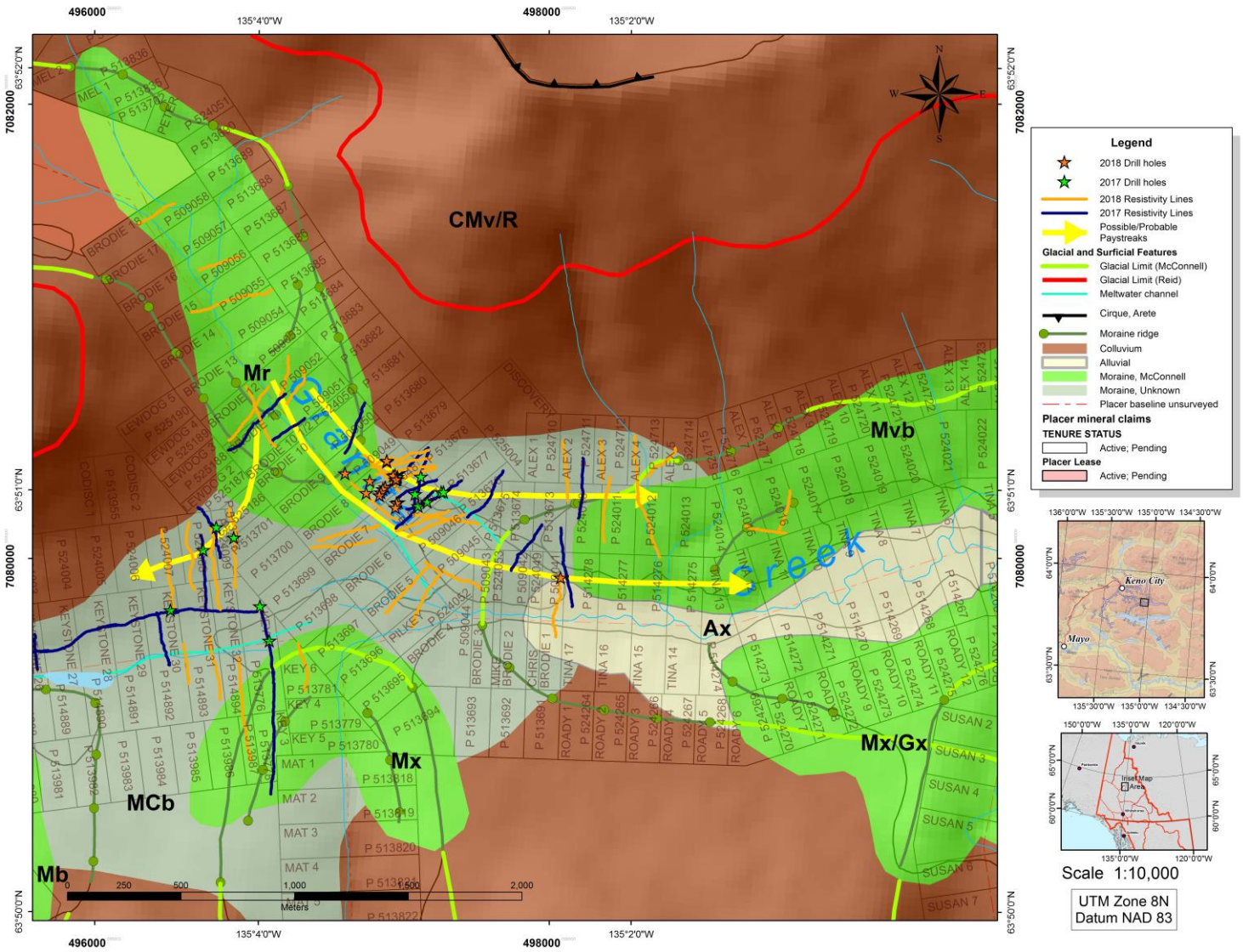


Figure 8 - Surficial geology map of Granite Creek (YGS 2019), showing the traces of the 2017 and 2018 resistivity lines and the locations of the 2017 and 2018 drill holes.

2019 Placer Exploration Program

Overview

The 2019 exploration program consisted of resistivity geophysical surveys, R/C drilling, small-scale bulk sampling and drone imagery for base map construction.

Between June 9 and August 4, 2019, thirteen (13) resistivity lines totalling 3.75 km were conducted on Granite Creek by Allegra Webb, Selena Magel and William LeBarge. The Lippmann 4-Point Light Resistivity System was used to conduct the surveys, and the software program RES2INV was used to invert the data and for processing.

Two areas were targeted in the 2019 exploration program (Figures 9, 10 and 11). Target area 1 (Figure 10) is located downstream of the active mine in the main valley. A total of 3 drill holes were collared here and they reached depths between 16m and 25m. The drill holes had promising amounts of placer gold in the samples. Six resistivity surveys were conducted in Target area 1, and five new drill targets were chosen here with estimated depths to bedrock between 17 and 28 meters.

Target area 2 (Figure 11) is located downstream of Target area 1 on the left limit of Granite Creek. This area is mapped (YGS, 2019) as a glaciofluvial/till complex (Mx/Gx) and it forms a high terrace on the left limit above the main Granite Creek valley. Seven resistivity lines were surveyed at this location. Additionally, two small samples were taken from a recent surface road cut, and one small sample was taken from a nearby excavator test pit. Eleven new drill targets were identified here with depths estimated between 9m and 35m from surface.

Drone imagery

Methodology

The drone used was a DJI Phantom 4 Pro. The images are collected by flying the drone in a grid shape over the desired area to be mapped. Once the flying is complete, the images are imported into the processing software (Pix4D). The program creates an orthomosaic, point cloud, digital surface and terrain models, contour lines and a Google Earth .kml file. The orthomosiac can be imported into mapping software and combined with other geospatially-referenced data. Drone surveys also allow for additional geological interpretation, as they can support identification of geological and geomorphological features in the target areas which cannot be seen on the ground. The detailed and updated imagery provided by drone surveys also aids in planning additional areas for further geological and geophysical surveys.

General Results

Figure 9 shows the footprint (6.2 creek-miles) of the drone imagery which was flown in the target areas in 2019. The images of the drone surveys were used as the base map for Figures 10 and 11, and are also included separately in Appendix 4.

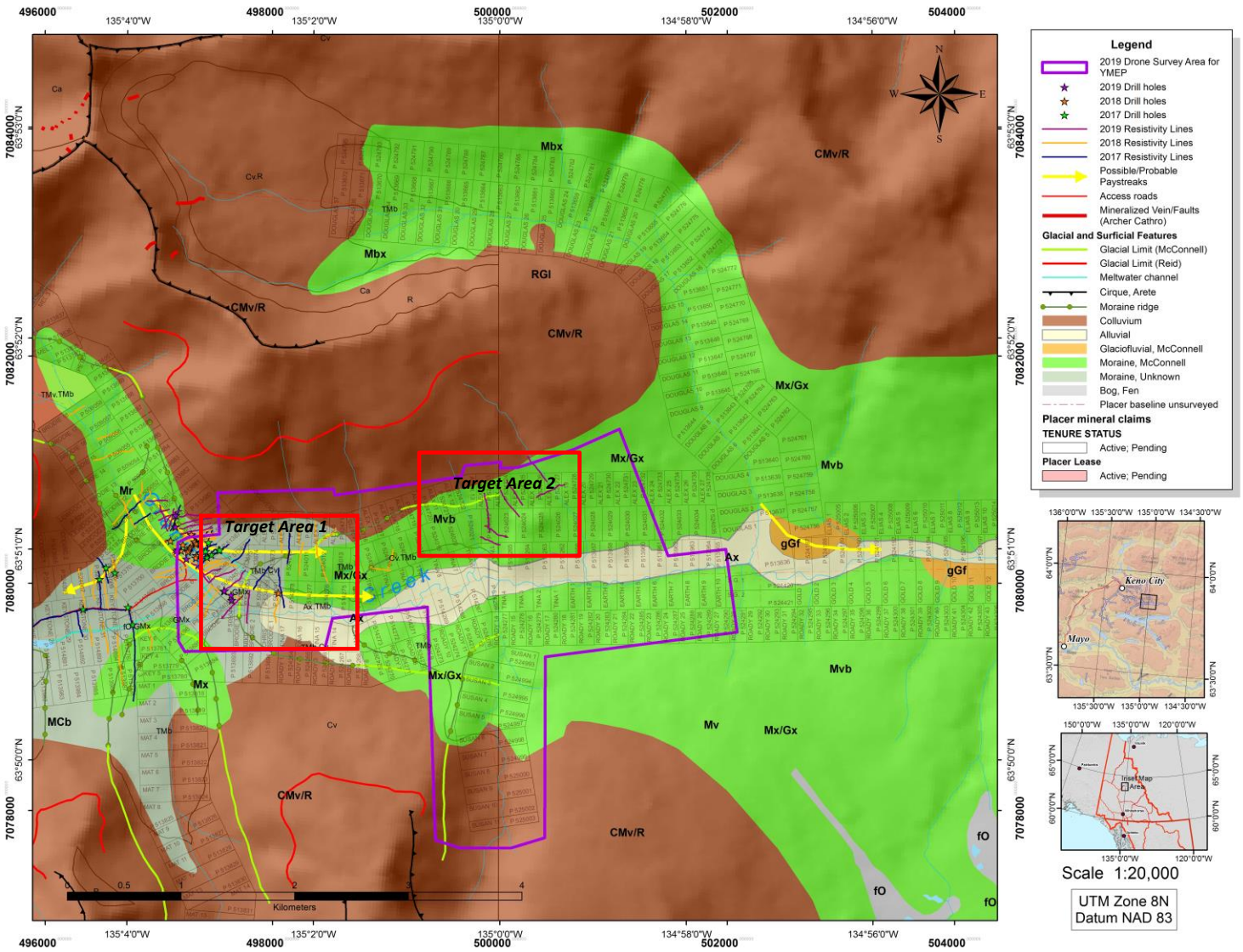


Figure 9 - Surficial map of Granite Creek showing 2017 to 2019 drill holes and geophysical surveys. Target areas 1 and 2 also shown.

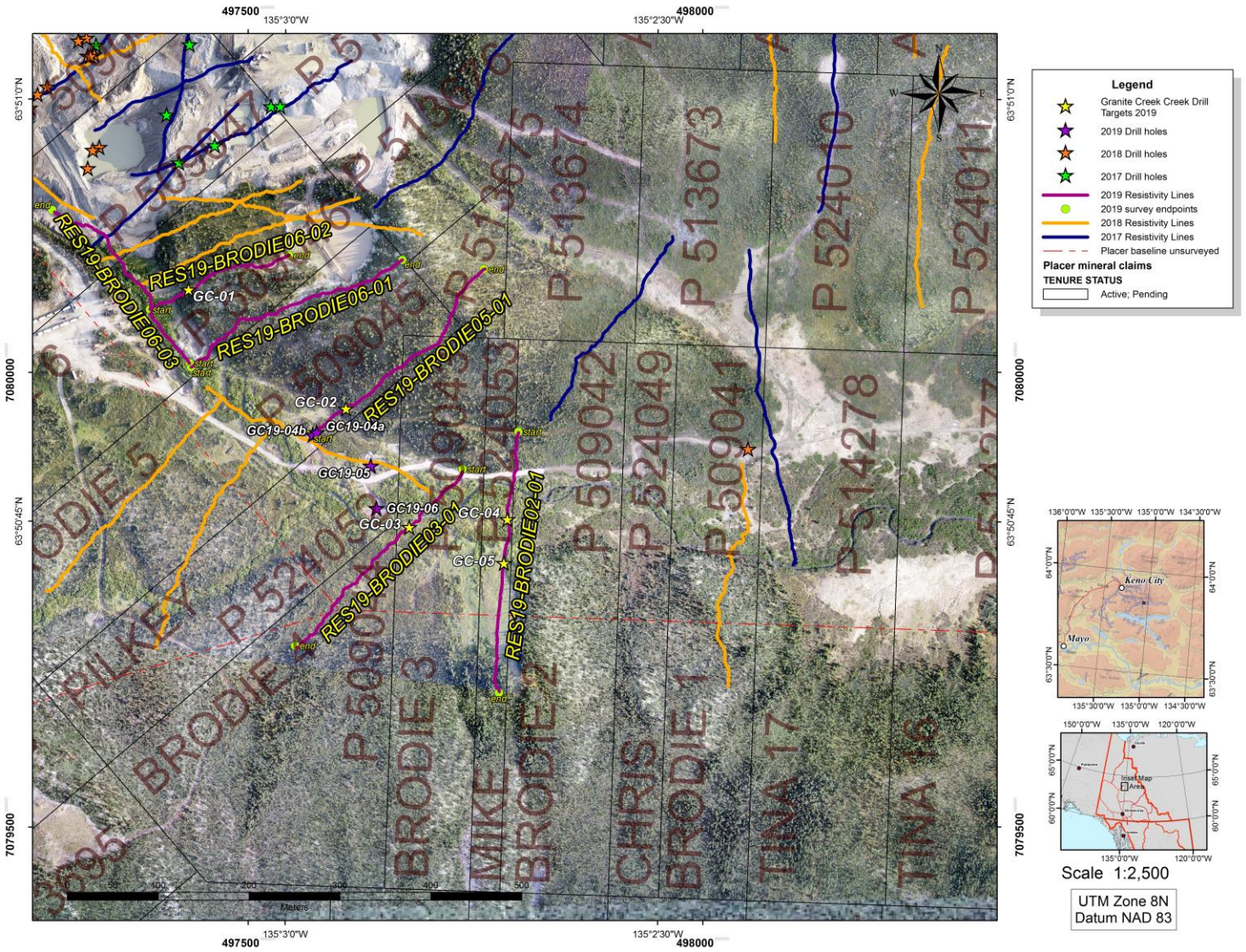


Figure 10 – Drone imagery map of Target Area 1 showing location of 2019 resistivity surveys, 2019 drill targets and 2017-2019 drill holes.

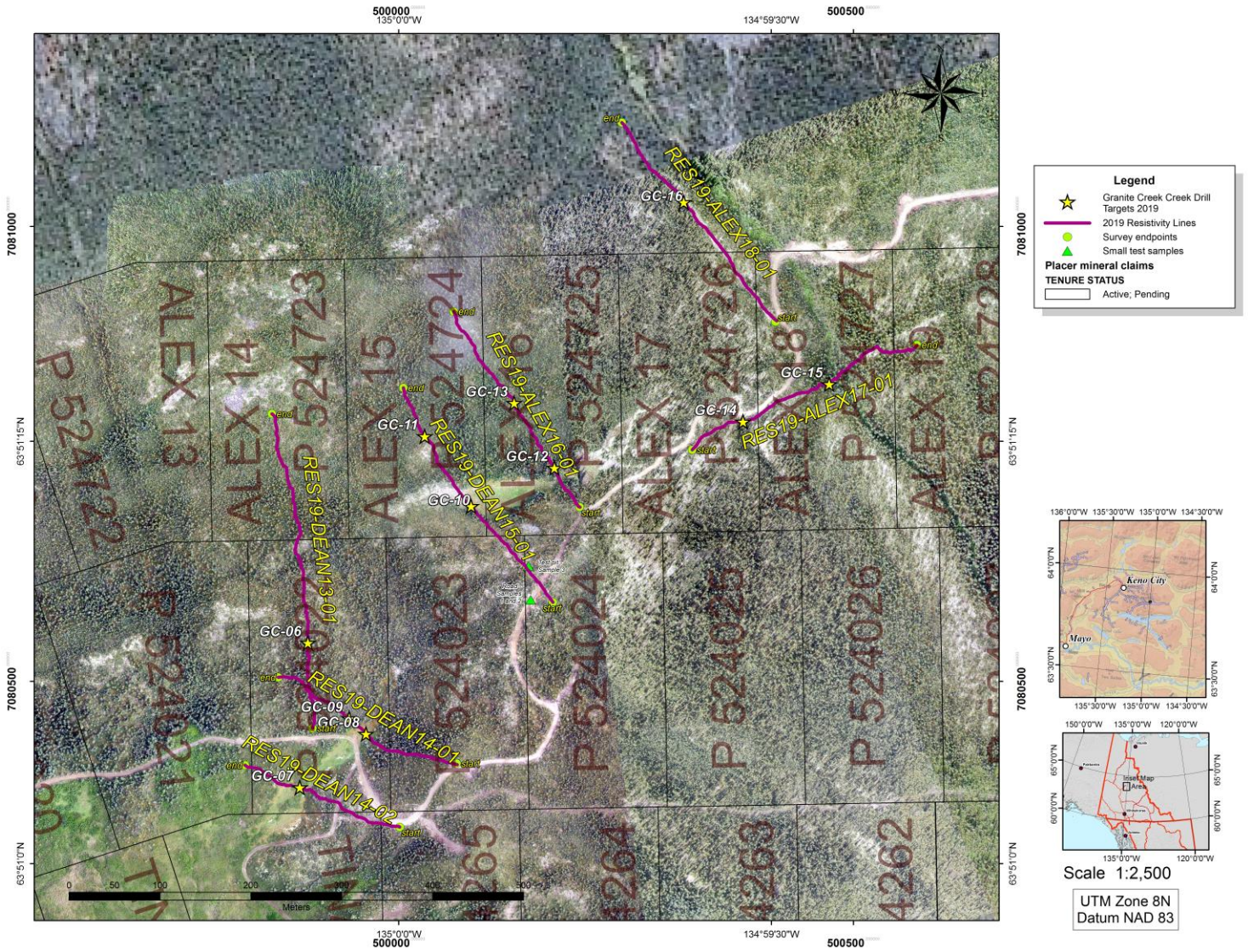


Figure 11 - Drone imagery map of Target Area 2 showing location of 2019 resistivity surveys, drill targets and test pit locations.

Resistivity Geophysics

Methodology

The resistivity technique injects an electrical current into the subsurface through stainless steel spikes and then measures the remaining voltage at various distances away from the injection point. Ground materials have different resistances to the current and give data points in a cross section of the subsurface. With the data points, a tomogram or pseudo section can be created representing changes of resistivity in the ground. Data was collected using Geotest software, while the inversion and data filtering was completed with RES2DINV software. Data points with poor data quality were exterminated and noisy data was filtered statistically with root mean squared data trimming. Two-dimensional tomograms were produced using least squares damped inversion parameters to display the resistivity properties and to display potential contacts.

The two-dimensional images are used for preliminary interpretations of bedrock structure. The images were interpreted by Selena Magel, Allegra Webb and William LeBarge.
General principles and assumptions of electrical resistivity are:

1. Low resistivity can indicate thawed and water saturated areas, as well as fine grained material.
2. Very high resistivity values can be due to ice rich material and frozen or highly disturbed ground.
3. Dry gravels, cobbles and boulders generally have high resistivity values.
4. The contrasts between values is more important in determining contacts than the absolute values found with resistivity data.

Limitations and Disclaimer

The interpreted sections provide an estimate of the conditions beneath the surface to the depths conducted and are within the accuracy of the system and methods. The data becomes more uncertain with depth and are more accurate toward the surface and is further complicated with permafrost present in the region. The materials are interpreted based upon local geology observed, as well as geologic knowledge of the area. Certain materials may be similar in composition and result in uncertain results. The accuracy of the information presented is not guaranteed and all mine development is the client's responsibility. William LeBarge, Allegra Webb and Selena Magel accept no liability for any use or application by any and all authorized or unauthorized parties.

Geophysical Program Results

Table 6 outlines the lengths and locations of the resistivity surveys conducted in 2019 in the target areas. Good data and contact resistance were obtained in most surveys.

The interpreted bedrock contacts appear undulating in most surveys, which may be indicative of prospective paleochannels on bedrock.

Sixteen drill targets in total were interpreted from the resistivity profiles. The target locations and expected bedrock depths are shown in Table 7, plotted on Figures 10 and 11 and shown in Figures 12-24 on the resistivity profiles.

In Target area 1, interpretation of the interpreted bedrock depths in the profiles was aided by comparison to the actual bedrock depths encountered in nearby drill holes. Six resistivity surveys were conducted in this area, and five drill targets were chosen with estimated depths to bedrock between 17 and 28 meters.

Seven resistivity lines were surveyed in Target area 2. The interpreted bedrock depths were based in part from the geology of the nearby road cuts and test pits. This was necessary as no drill holes were completed in this area and there were no bedrock exposures found to use for calibration. Eleven new drill targets were identified here with depths estimated between 9 and 35m from surface.

Table 6 - Table outlining the name, length, orientation, and date of 2019 resistivity surveys in Granite Creek.

Granite Creek							
Survey Name	Claim Location	Start Point		End point		Length (m)	Date Surveyed
		Latitude	Longitude	Latitude	Longitude		
Target Area 1							
RES19-BRODIE06-01	BRODIE 6	63.84735587	-135.0521149	63.84841555	-135.0473896	300	June 9 2019
RES19-BRODIE06-03	BRODIE 5	63.84739519	-135.0521448	63.84890604	-135.0552256	300	June 12 2019
RES19-BRODIE06-02	BRODIE 6	63.84792596	-135.0530371	63.84846191	-135.0499253	200	June 12 2019
RES19-BRODIE05-01	BRODIE 5	63.84670343	-135.0494192	63.84832628	-135.0455688	300	June 13 2019
RES19-BRODIE03-01	BRODIE 3	63.84635261	-135.0460399	63.84460775	-135.0497835	300	June 25 2019
RES19-BRODIE02-01	BRODIE 2	63.8441459	-135.0452232	63.84672179	-135.0447909	300	July 15 2019
Target Area 2							
RES19-DEAN13-01	DEAN 13	63.85133659	-135.0019302	63.85443943	-135.0028371	400	Aug 5 2019
RES19-DEAN14-02	DEAN 14	63.85036154	-134.9999773	63.85097289	-135.0034401	200	Aug 4 2019
RES19-DEAN14-01	DEAN 14	63.85099004	-134.9987103	63.85183802	-135.0026948	250	Aug 4 2019
RES19-DEAN15-01	DEAN 15	63.85257953	-134.9965495	63.85469643	-134.999897	300	July 31 2019
RES19-ALEX16-01	ALEX 16	63.85352033	-134.9959524	63.85544906	-134.9987668	300	July 16 2019
RES19-ALEX17-01	ALEX 17	63.8540847	-134.9934363	63.85511924	-134.9884038	300	July 31 2019
RES19-ALEX18-01	ALEX 18	63.85534908	-134.9915705	63.85731344	-134.995011	300	Aug 4 2019
					Total length	3750	

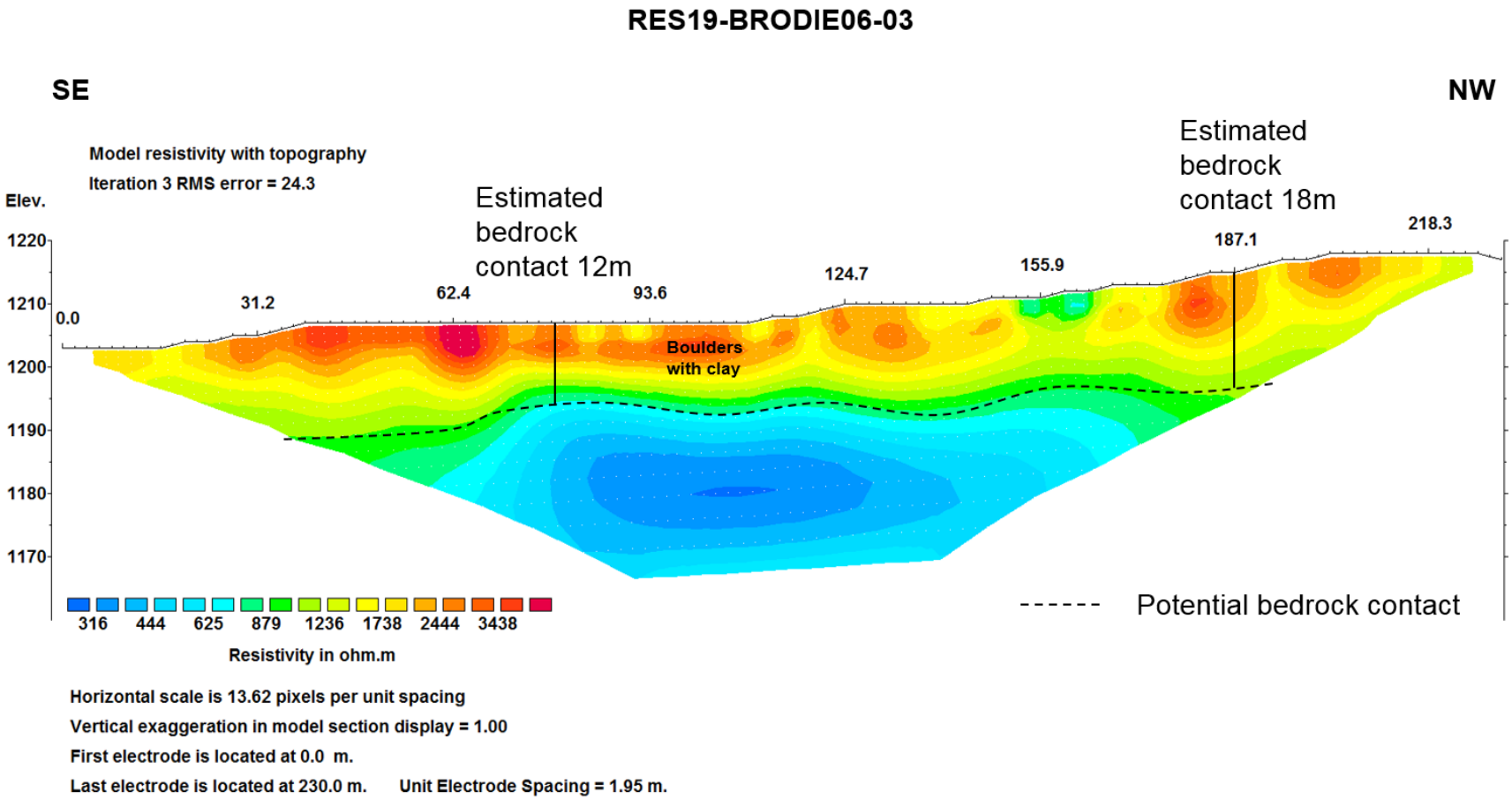


Figure 12 - Resistivity line RES19-BRODIE06-03 was surveyed from southeast to northwest parallel to Granite creek as it flows into the main valley. The profile displays a potentially undulating bedrock contact with high surface resistivity – the red area is interpreted as McConnell till. The depth of the interpreted bedrock contact ranges between 12m and 18m.

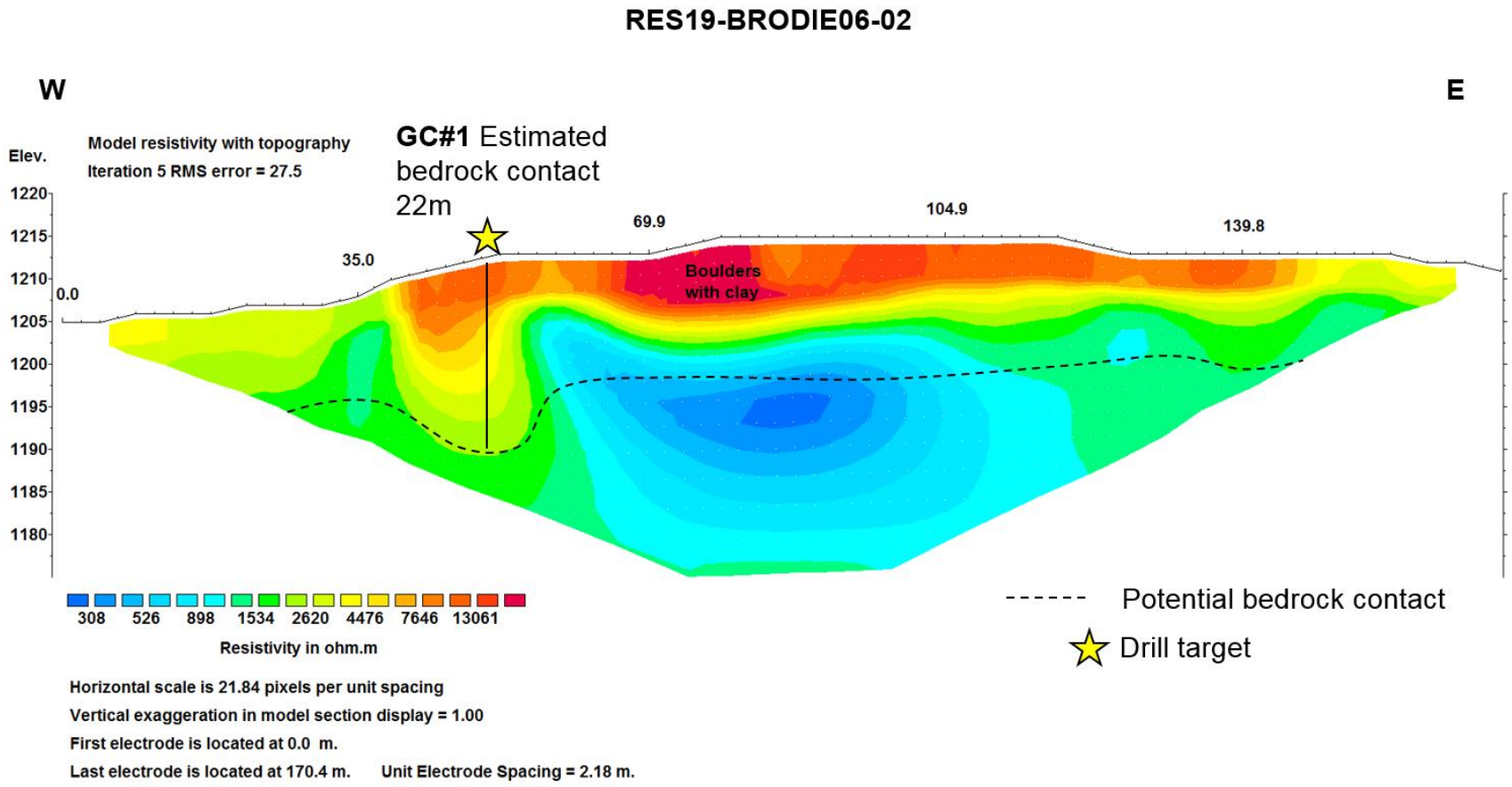


Figure 13 - Resistivity line RES19-BRODIE06-02 was surveyed from west to east starting at Granite Creek. The profile displays lower resistivity values at the surface closer to the creek on the west end of the survey. Higher resistivity at the surface of the section is interpreted as McConnell moraine (boulders with clay). The depth of the interpreted bedrock contact averages 10m, however it is as deep as 22m where a drill target has been chosen.

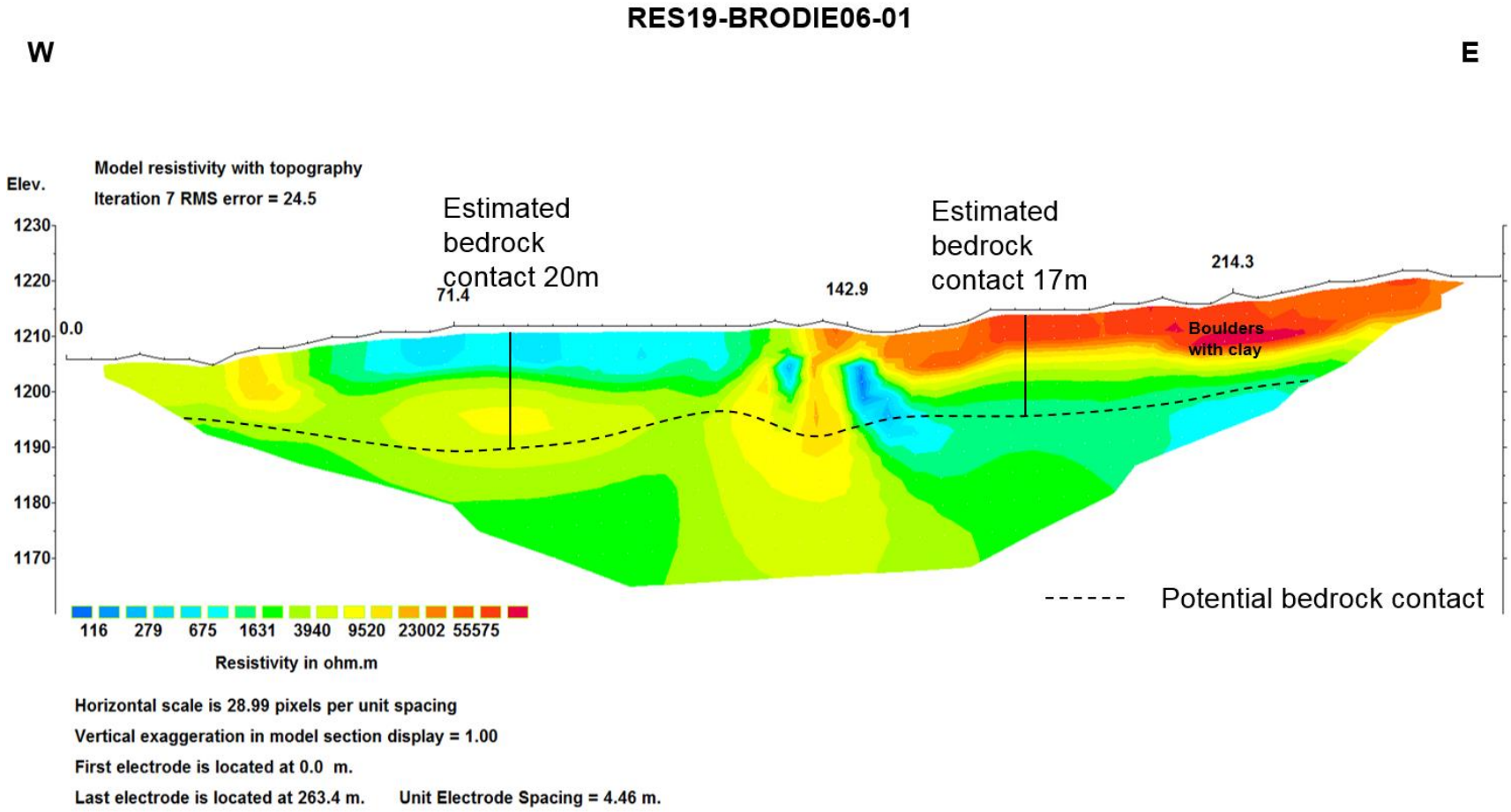


Figure 14 - Resistivity line RES19-BRODIE06-01 was surveyed from west to east starting at Granite Creek. Lower resistivity values occur at the surface closer to the creek on the west end of the survey. Higher resistivity occurring on the surface of the section (towards the east) may be interpreted as McConnell moraine containing ice. The interpreted bedrock contact reaches as deep as 20m.

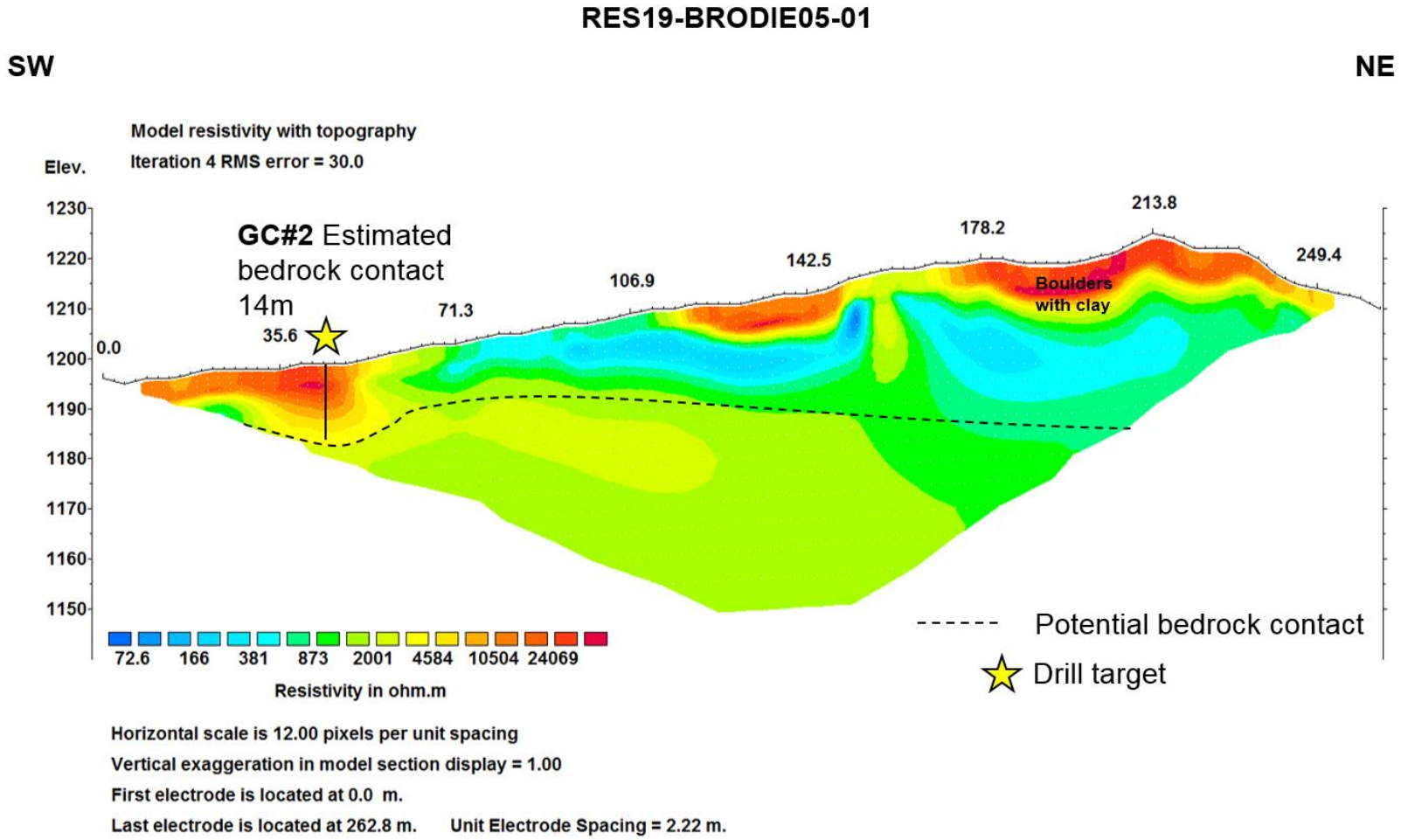


Figure 15 - Resistivity line RES19-BRODIE05-01 was surveyed from southwest to northeast starting close to Granite Creek and transecting a moraine. The depth of the interpreted bedrock contact ranges from 10m to 30m under the moraine. A drill target at 14m has been chosen in an interpreted bedrock depression at the edge of the moraine.

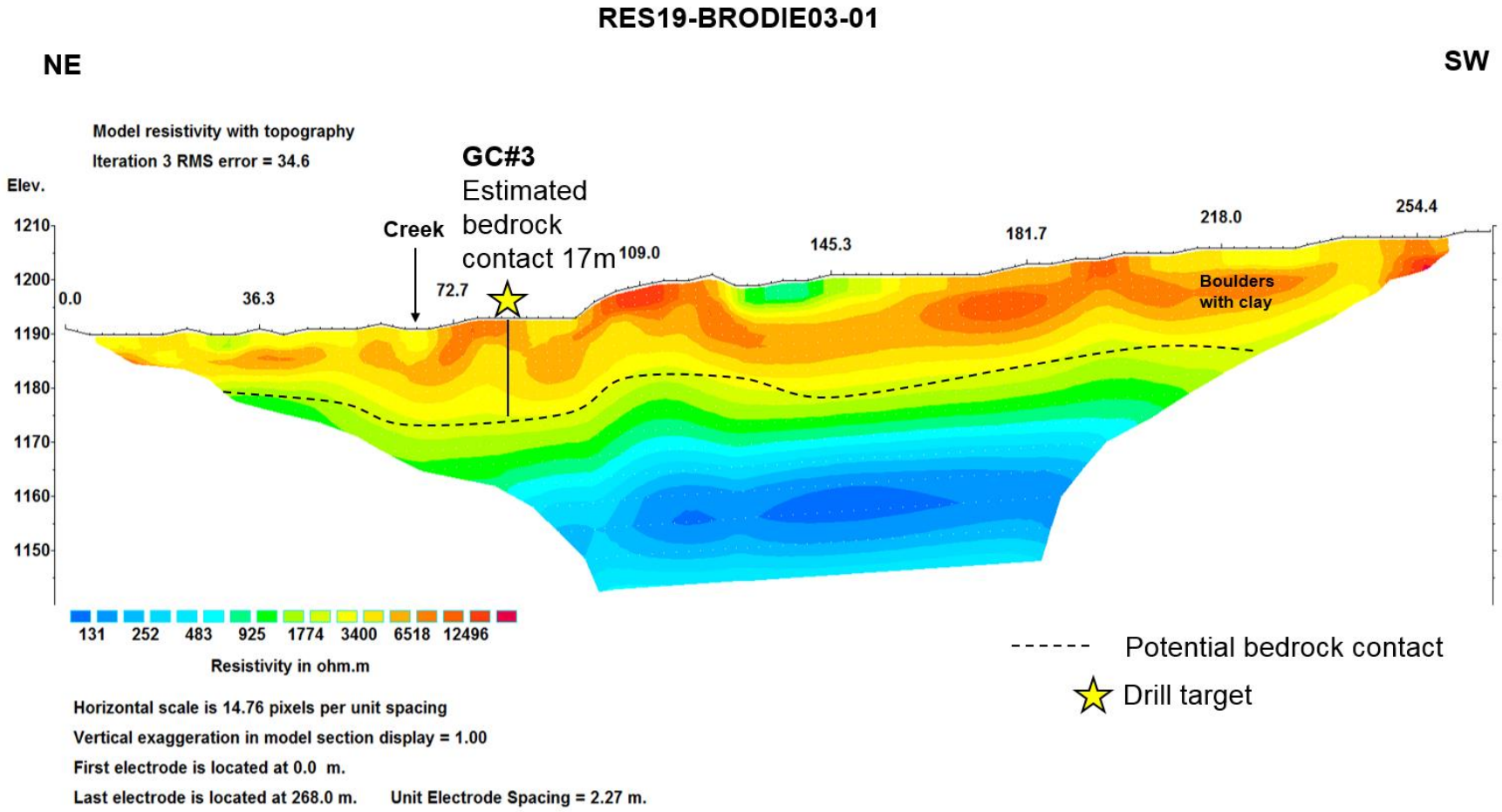


Figure 16 - Resistivity survey RES19-BRODIE03-01 was surveyed northeast to southwest crossing the main Granite Creek valley. The profile displays an undulating potential bedrock contact that varies between 10m and 17m deep. Higher resistivity values on the northeast side may be sand and gravel (mapped as alluvial complex), while higher resistivity values on the southwest side of the profile may be interpreted as till.

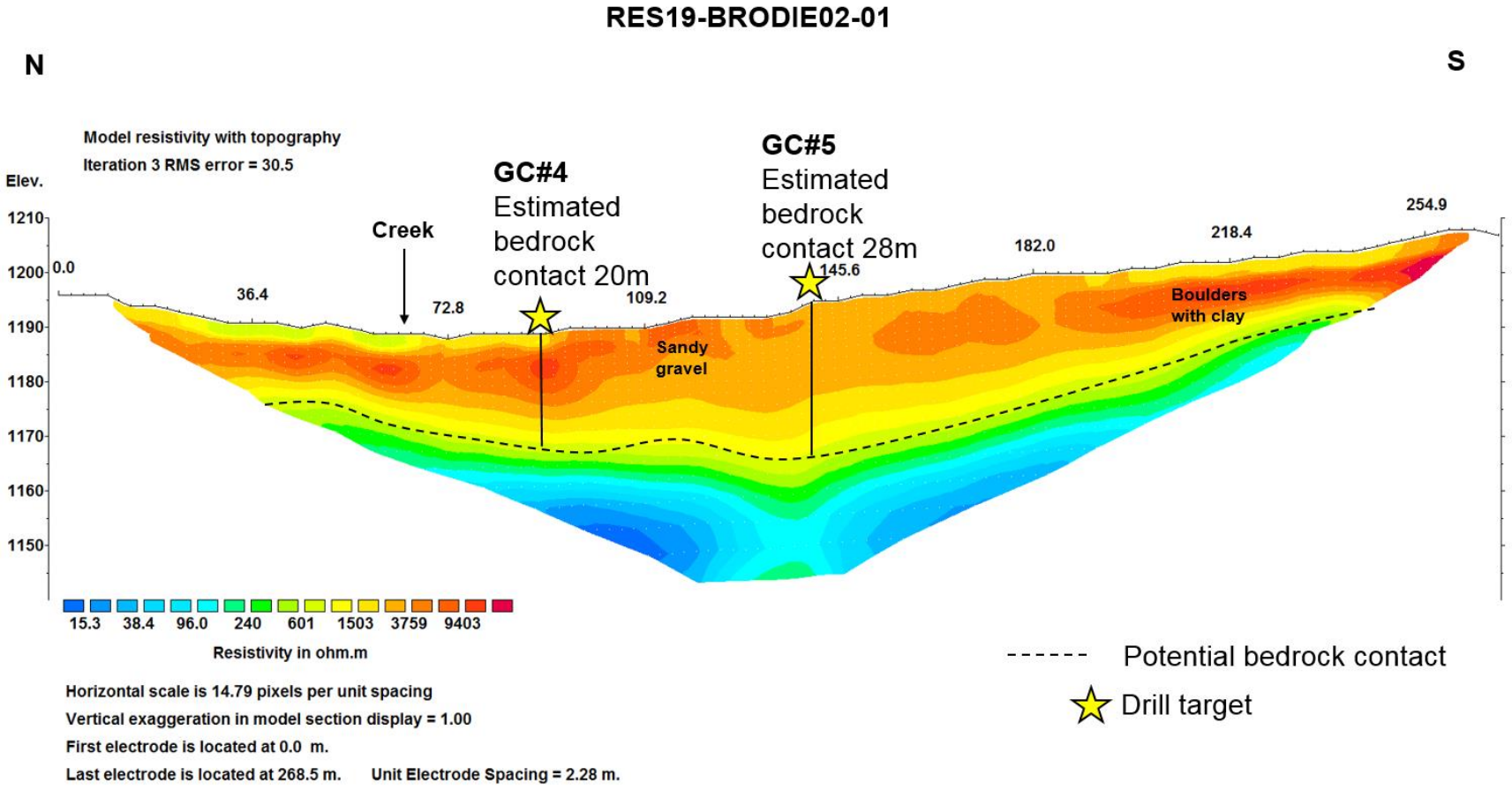


Figure 17 - RES19-BRODIE02-01 was surveyed north to south across Granite Creek. The profile displays a slightly undulating bedrock contact, interpreted to reach a maximum depth of 28m. The two drill targets have been chosen in the depressions of the interpreted bedrock contact.

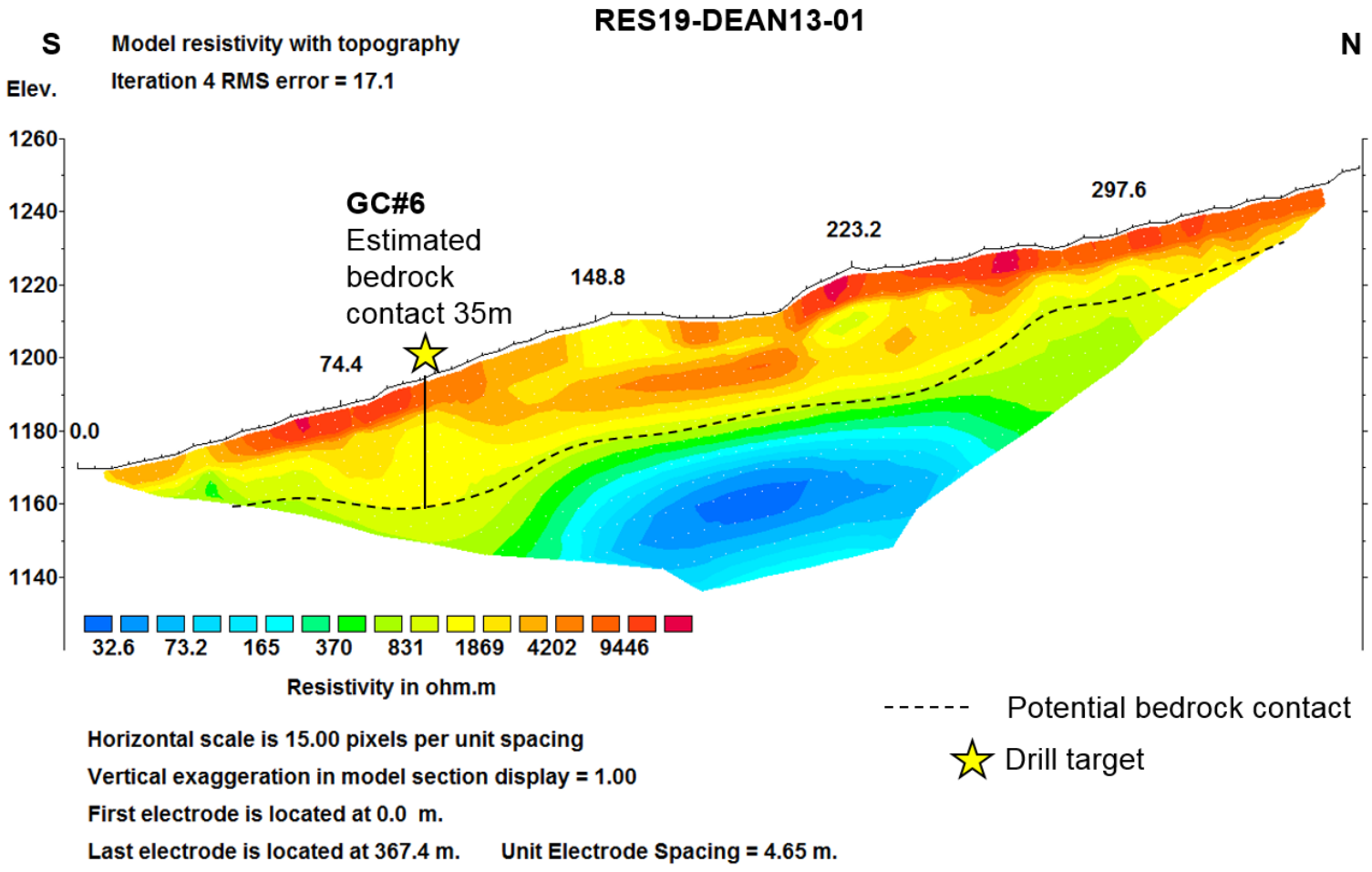


Figure 18 - RES19-DEAN13-01 was surveyed south to north across a potential side-valley meltwater channel. High resistivity zones on the north side may be interpreted as colluvium, while on the south, high resistivity values may be interpreted as glaciofluvial gravel and sand. A drill target was chosen in the interpreted bedrock contact with a depth of 35m.

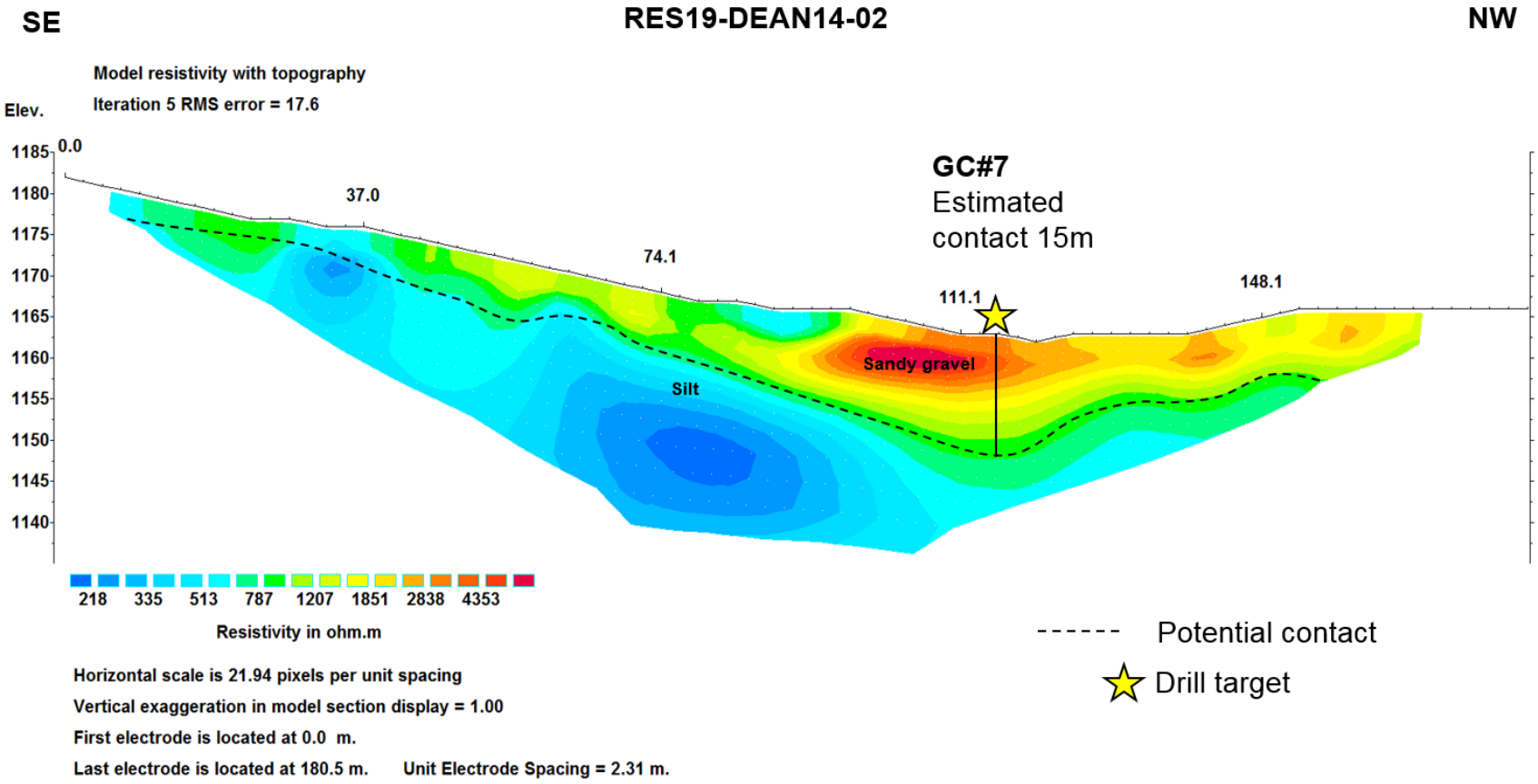


Figure 19 - RES19-DEAN14-02 was surveyed southeast to northwest across a small local drainage below a high terrace. Low surface resistivity values seen on the surface and subsurface on the southeast side have been interpreted as glaciolacustrine (lake) clay and silt. These sediments were observed in a road cut immediately east of the start point of the survey, and the elevation of the silt unit correlates roughly to that observed on profile RES19-DEAN14-01. A drill target has been chosen at a depth of 15m, which is likely the contact with the silt layer. Actual bedrock is an unknown depth below the interpreted silt layer.

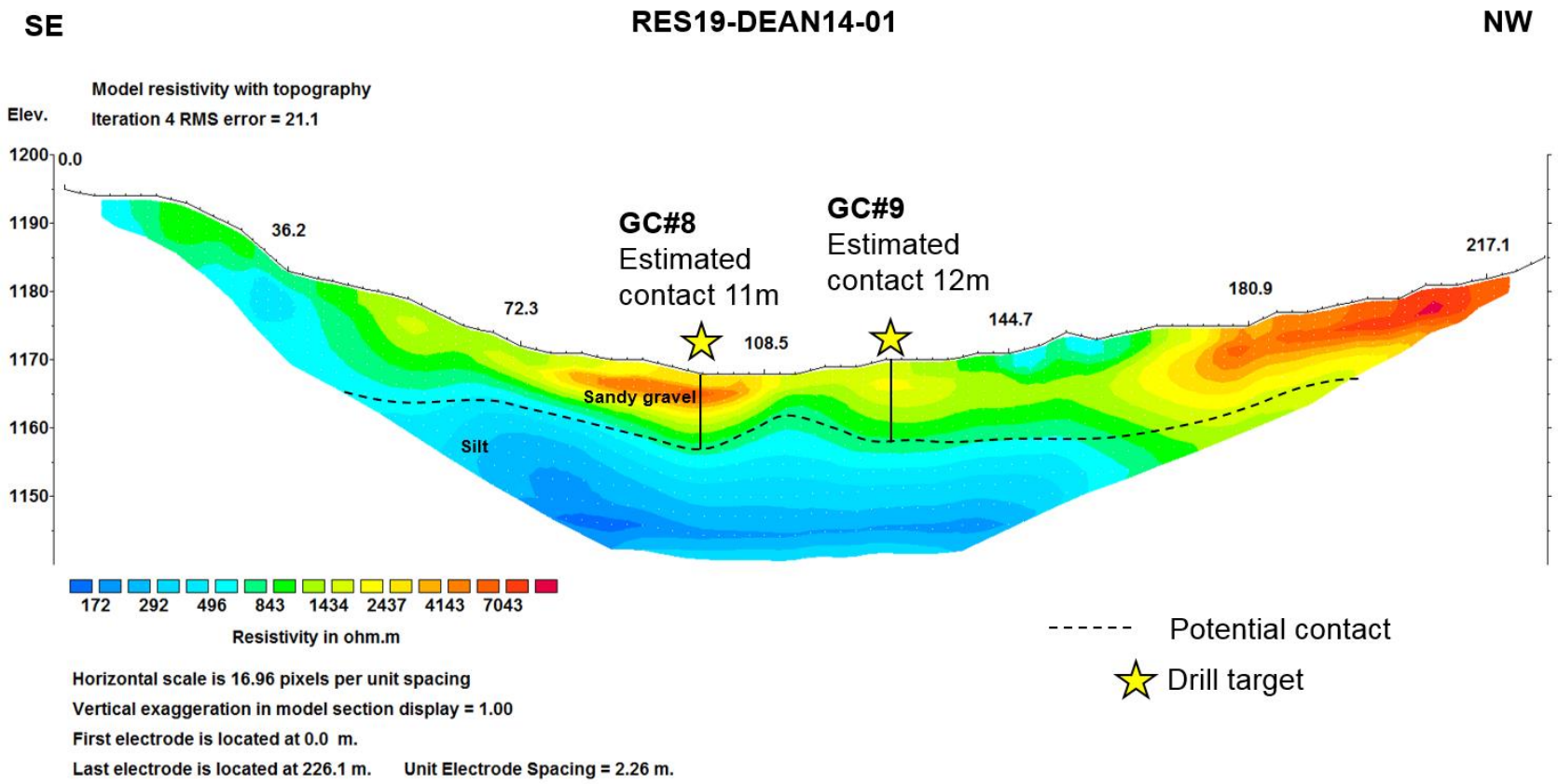


Figure 20 - RES19-DEAN14-01 was surveyed southeast to northwest across a small local drainage, below a high bench area, just uphill from survey RES19-DEAN14-02. The low subsurface resistivity values may be interpreted as lake (glaciolacustrine) sediments. These laminated silty-clay sediments were observed in a road cut just west of the survey. Drill targets have been chosen between 11m and 12m from surface, and are likely at the contact with the glaciolacustrine unit. Potential placer concentrations may exist where the lake sediment acts as a "false bedrock", however actual bedrock is an unknown depth below the silt unit.

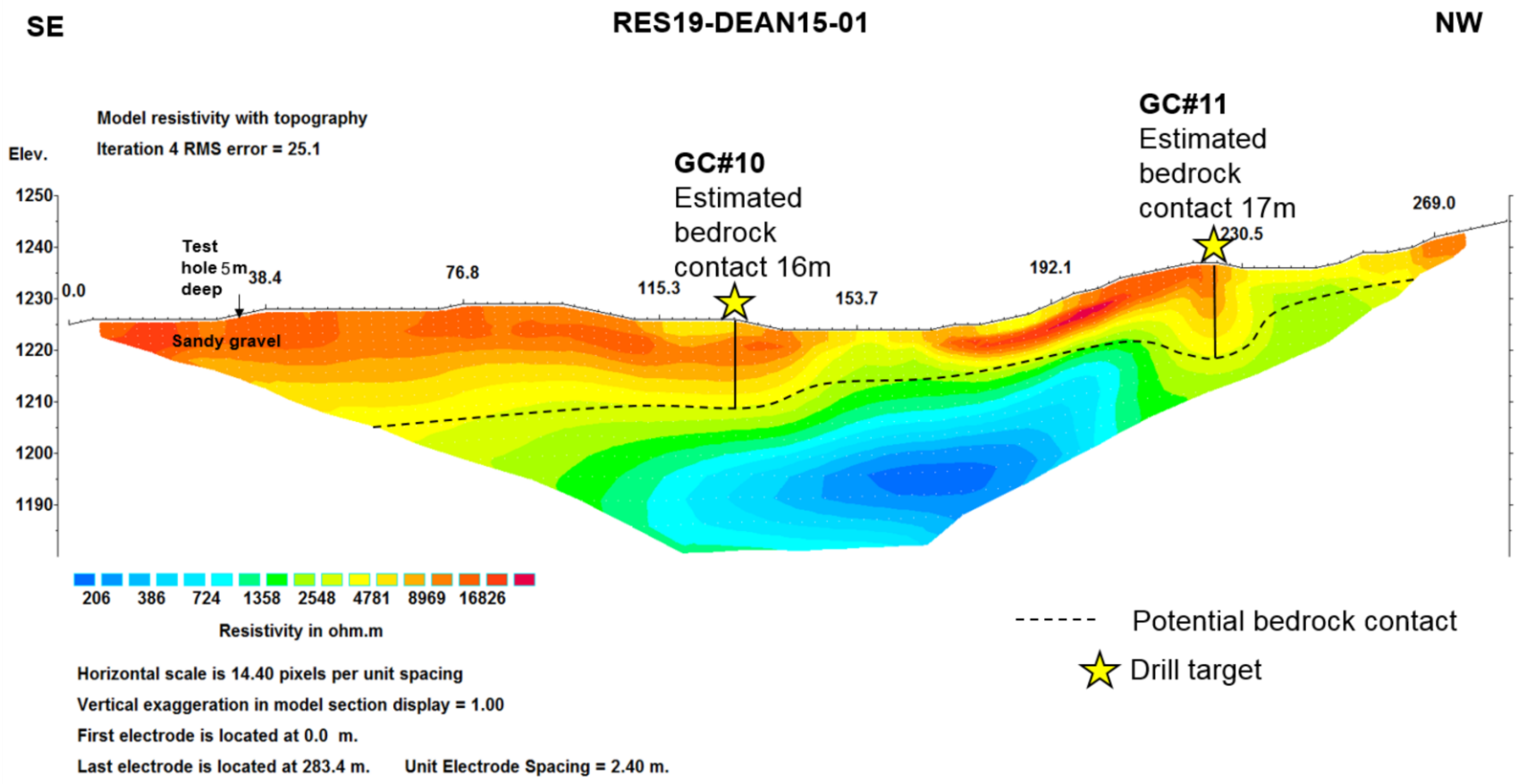


Figure 21 - RES19-DEAN15-01 was surveyed southeast to northwest across a glaciofluvial/moraine complex. High resistivity units can be interpreted as both glaciofluvial sand and gravel (as observed in a test pit on the southeast end of the survey) and frozen glacial till, which is likely underlying the northwest end of the survey. Two targets have been chosen in depressions in the interpreted bedrock contact, with depths of 16m and 17m. The stratigraphy of the test pit is given in the section following on small scale sampling.

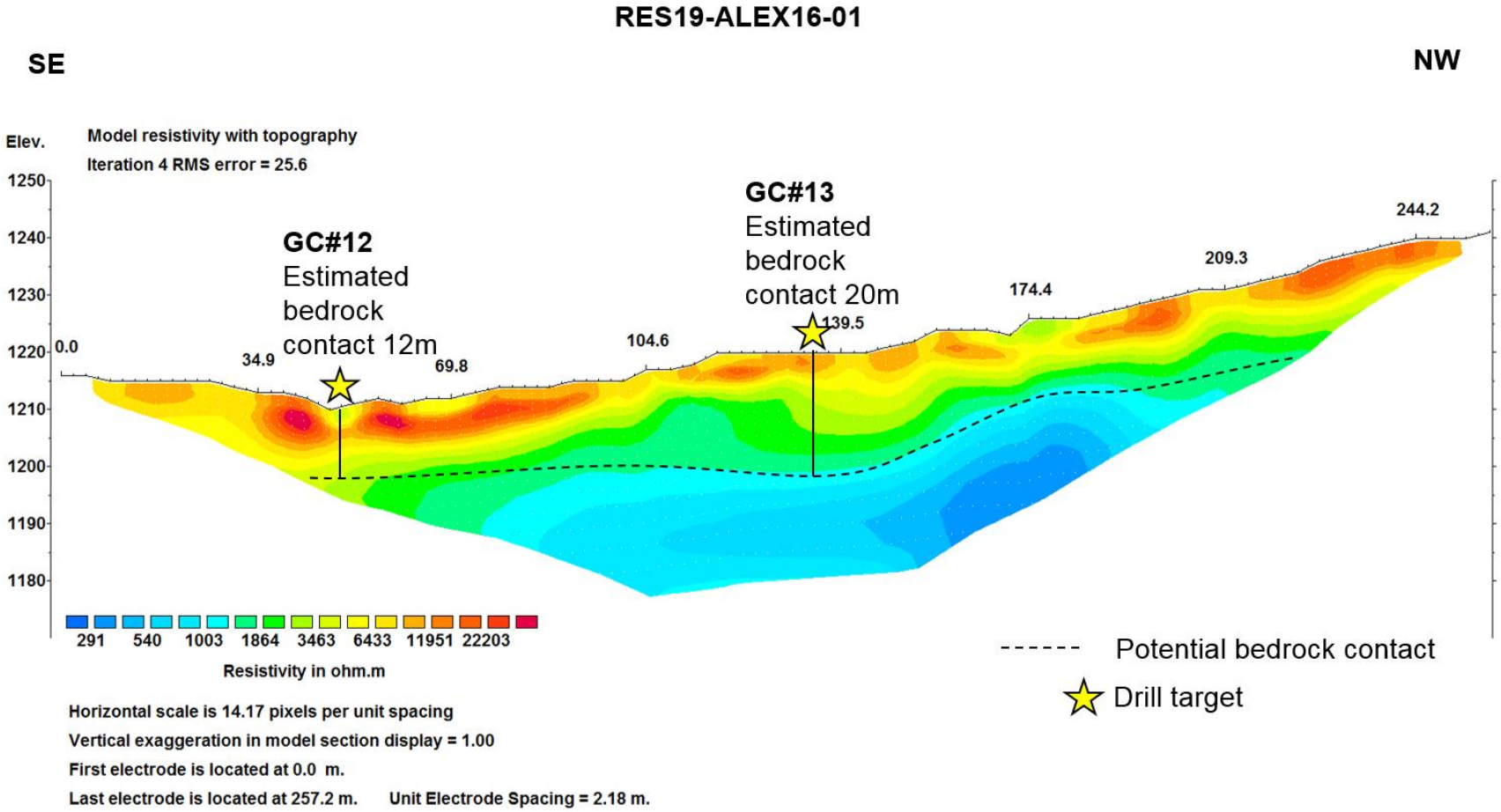


Figure 22 - RES19-ALEX16-01 was surveyed southeast to northwest across a glaciofluvial/moraine complex. High resistivity zones may be interpreted as a mixture of frozen glacial till, glaciofluvial gravel and colluvium. Two targets have been chosen in the interpreted bedrock contact, which varies from 12m to 20m. Very high resistivity values near target GC#12 are likely frozen moraine (till). Moderate to high resistivity values on the surface near target GC#13 are likely glaciofluvial gravel, which was observed in a road cut immediately south of the survey.

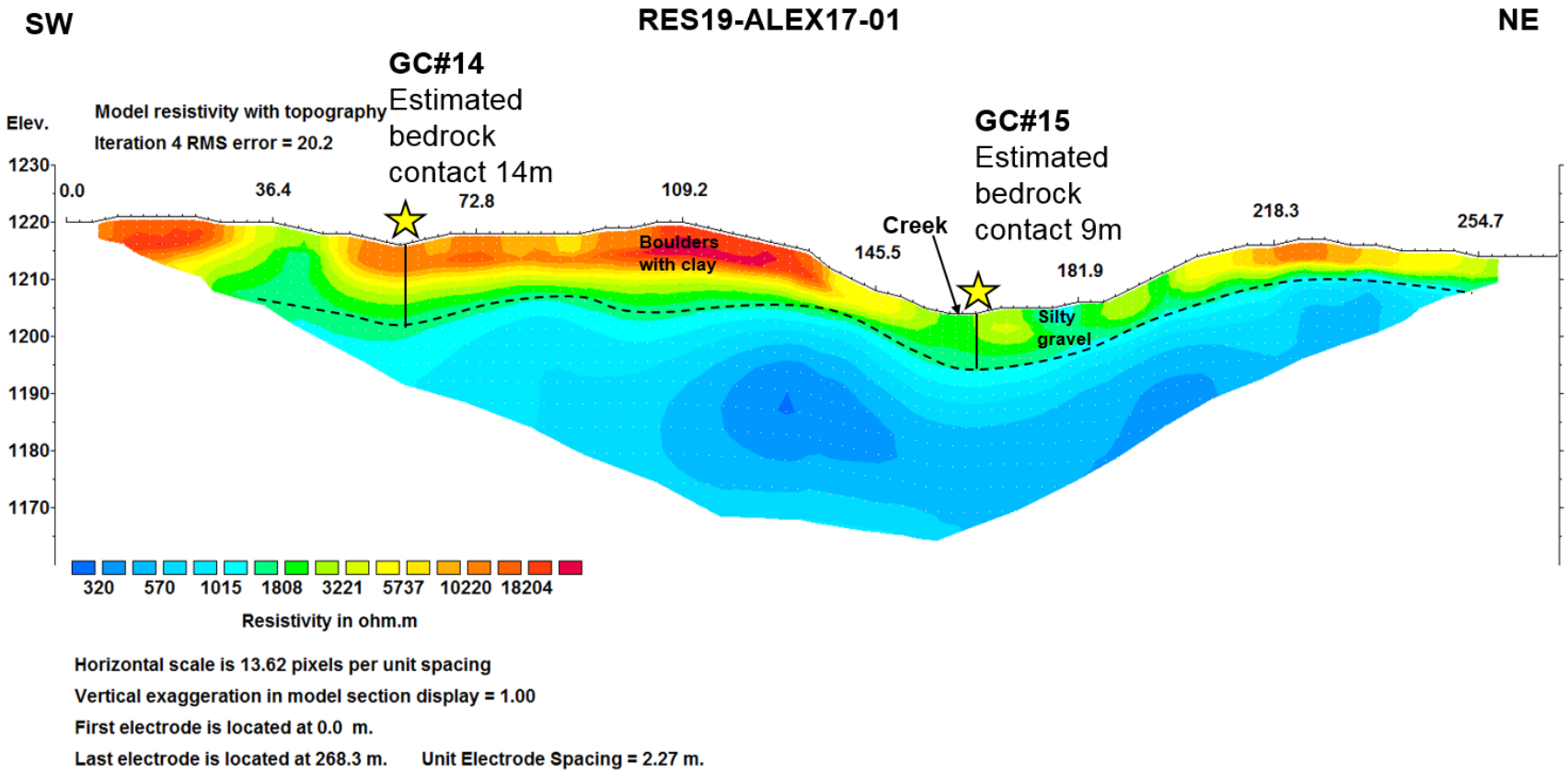


Figure 23 - RES19-ALEX17-01 was surveyed southwest to northeast across a small drainage which transects the glaciofluvial/moraine complex. High resistivity zones on the SW side may be interpreted as a mixture of moraine (till) overlying glaciofluvial gravel, stratigraphy which was observed in a nearby road cut. A drill target has been chosen in a low topography area which is the location of the surface creek channel. The bedrock contact appears to be undulating between 9m and 14m.

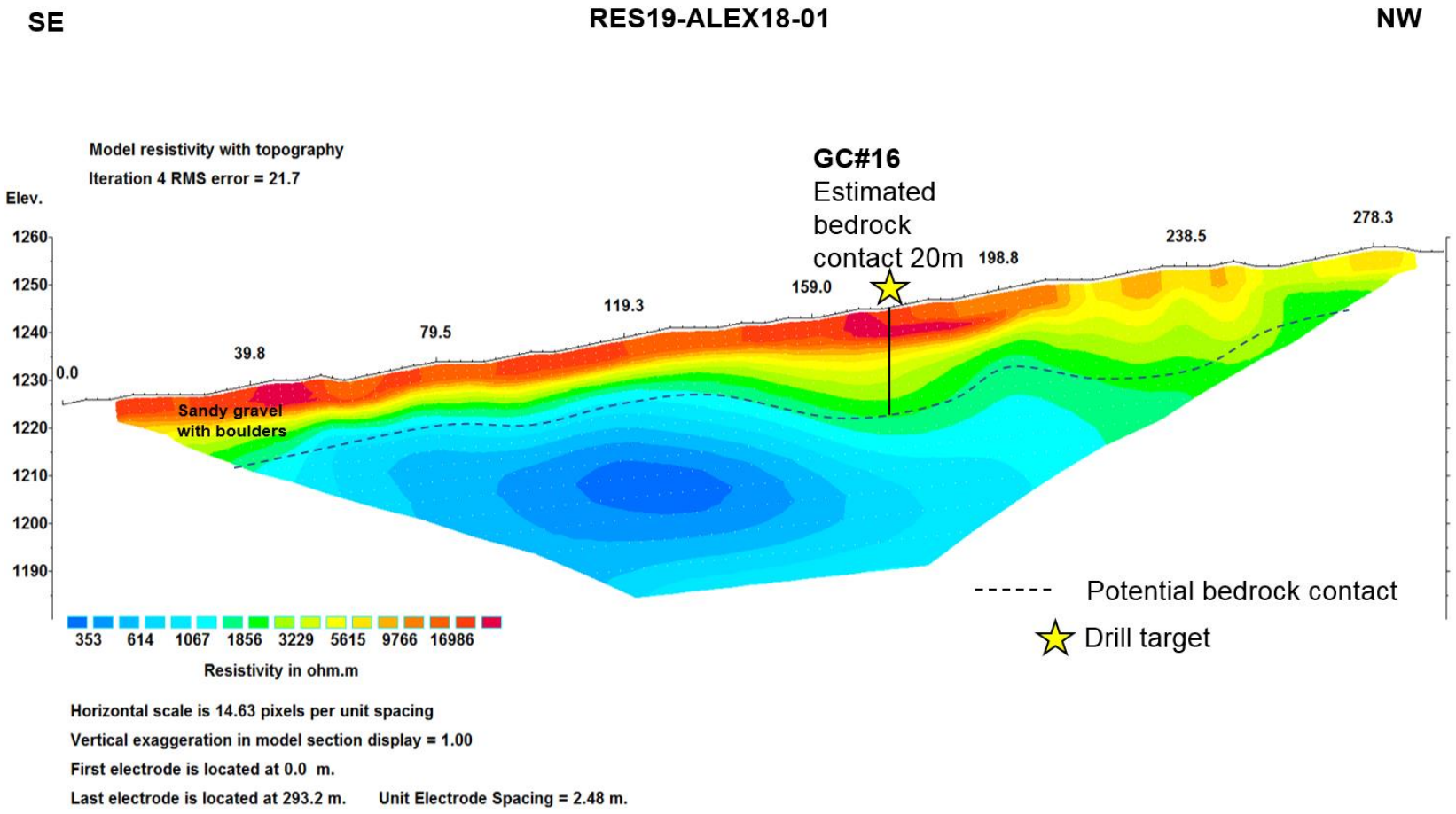


Figure 24- RES19-ALEX18-01 was surveyed southeast to northwest, parallel to a small creek. The continuous zone of high resistivity at the surface may be interpreted as a mixture of colluvium and glacial moraine (till). This appears to overly more moderate values of resistivity, possibly representing glaciofluvial gravel and sand, stratigraphy which was observed in a nearby road cut. A drill target has been chosen at a depth of 20m.

Table 7 - Drill targets names, approximate depths to bedrock, and location, identified with resistivity surveys in Granite Creek. One of these drill targets was drilled in 2019, as highlighted. The drill targets are also shown on Figures 10 and 11. The drill log for GC19-06 is contained in Appendix 2.

2019 Drill Targets - Granite Creek				
Drill target Name	Approximate Depth to Bedrock (m)	Resistivity line name	Location	
			Latitude	Longitude
GC #1	22	RES19-BRODIE06-02	63.84812181	-135.0521716
GC #2	14	RES19-BRODIE05-01	63.84694916	-135.0486464
GC #3 (GC19-06)	17 (16)	RES19-BRODIE03-01	63.84578028	-135.0472284
GC #4	20	RES19-BRODIE02-01	63.84585834	-135.0450342
GC #5	28	RES19-BRODIE02-01	63.84542608	-135.0451129
GC #6	35	RES19-DEAN13-01	63.85218164	-135.0020329
GC #7	11	RES19-DEAN14-02	63.85075392	-135.0022112
GC #8	15	RES19-DEAN14-02	63.85128173	-135.0007325
GC #9	11	RES19-DEAN14-01	63.85143525	-135.0011052
GC #10	12	RES19-DEAN14-01	63.85352891	-134.9983815
GC #11	16	RES19-DEAN15-01	63.85421893	-134.9994168
GC #12	17	RES19-DEAN15-01	63.85390779	-134.9965158
GC #13	12	RES19-ALEX16-01	63.85454687	-134.997415
GC #14	20	RES19-ALEX16-01	63.85436338	-134.9922979
GC #15	14	RES18-ALEX17-01	63.85473348	-134.990371
GC #16	20	RES19-ALEX18-01	63.85652983	-134.9936233

Reverse Circulation Drilling

Methodology

The drill used was a cased, reverse circulation (R/C) drill with an inside diameter of 115 mm (4.52 inches). Samples are hammered by the drill bit into small pebble-sized fractions as well as sand, silt and clay. The sample material is forced to the surface with compressed air and drawn through a cyclone, where the entire sample is gathered in rice bags in 1 meter intervals. The drill itself is mounted on a truck, and supported by a separate air compressor which is mounted on skids. A small bulldozer (Caterpillar D6) is used to move the compressor between holes.

Sampling

Usually the first meter of each drill hole is discarded, but each subsequent meter of the drill hole is collected, measured for volume, and described (colour, lithology) prior to further processing. The samples are then processed using a LeTrap sluicebox. Concentrates from the LeTrap are hand-panned and described initially as to their heavy minerals and gold characteristics. Samples with significant gold and unusual heavy minerals are saved and dried. The gold is weighed if it appears visually to be a weighable amount (usually greater than 5 mg). Dried samples are archived for later laboratory examination.

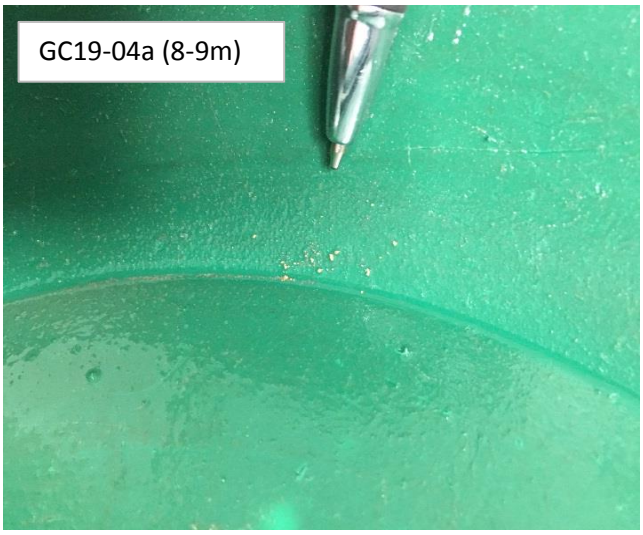
Results

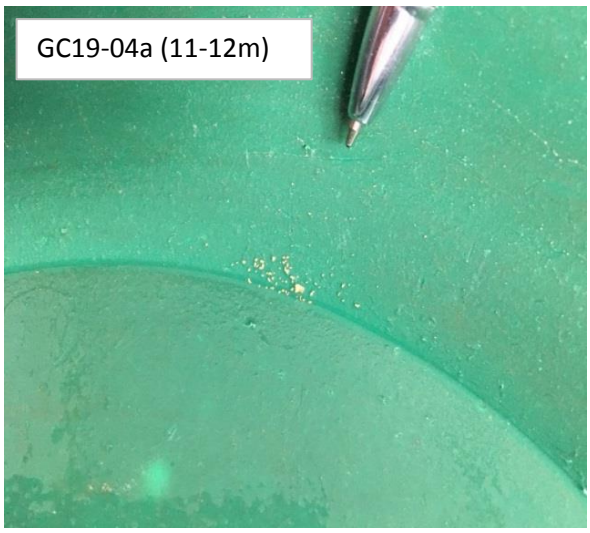
Table 8 shows the coordinates and results from the three drill holes (GC19-04, GC19-05 and GC19-06) totalling 60 metres which were completed in Target area 1 in 2019. The holes are plotted on Figure 10. Drill logs for these holes are included in Appendix 2.

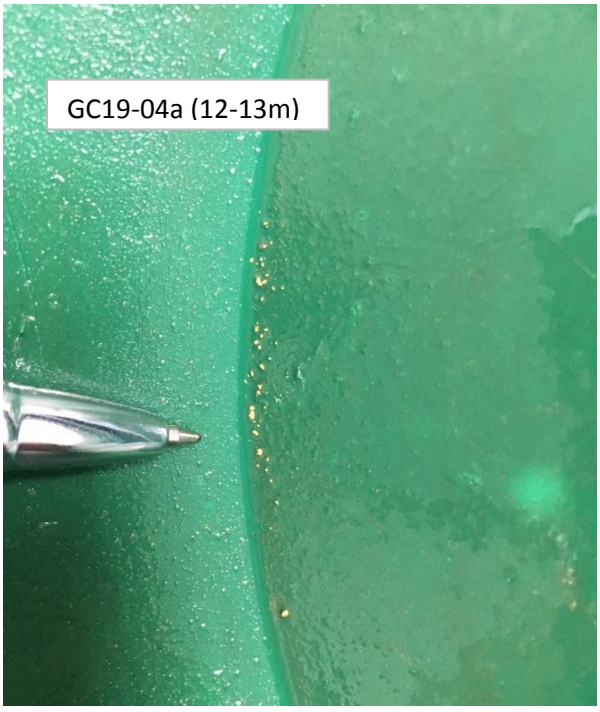
Table 8 - Coordinates and depths of 2019 R/C drill holes.

Drill hole	Latitude	Longitude	Total Depth (m)	Bedock reached	Comments
GC19-04a	63.8467146	-135.049303	14	no	Best gold 4m to 14m
GC19-04b	63.84669054	-135.0493895	25	yes	Best gold 14 m to 17m
GC19-05	63.84638357	-135.0480908	19	yes	Best gold 7m to 16m
GC19-06	63.84596615	-135.0479651	16	yes	Best gold 11m to 13m

While drilling GC19-04a there were equipment complications, so the hole was re-collared 5 ft. south and GC19-04b was drilled. The two sets of results have been merged for this report.
In addition to the gold results shown in the Table and drill logs, it was notable that drill hole GC19-04 intercepted a reddish soil-like layer with rounded gravel between 22 and 25 metres. This may be a paleosol from a soil developed on a pre-McConnell (interglacial) alluvial layer, which is highly prospective for placer gold in Granite Creek valley. This target is worthy of more extensive exploration in Granite Creek valley. Figures 25 and 26 show some of the placer gold from the drill samples.







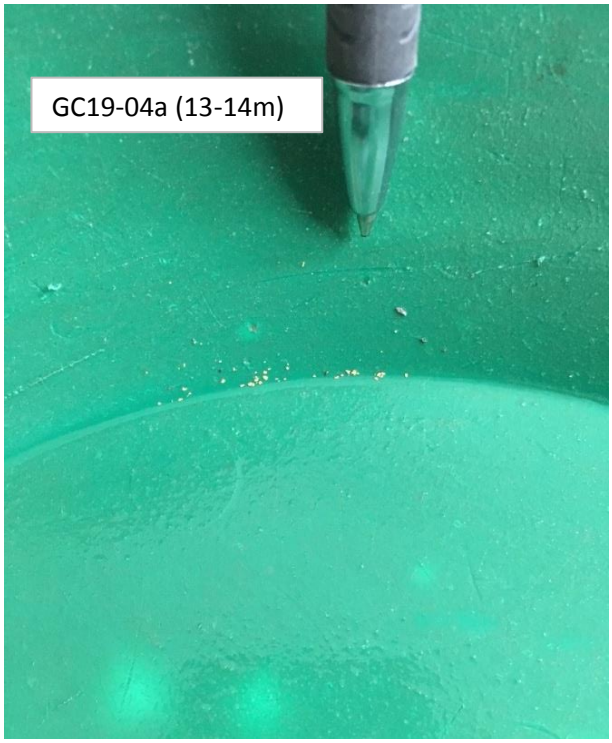
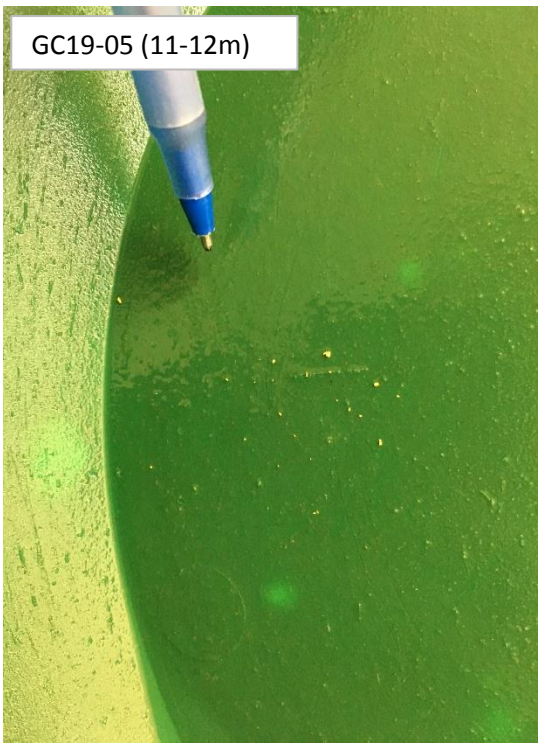


Figure 25 - Photos of placer gold from drill samples GC19-04a. These samples are described in the drill log in Appendix 2.





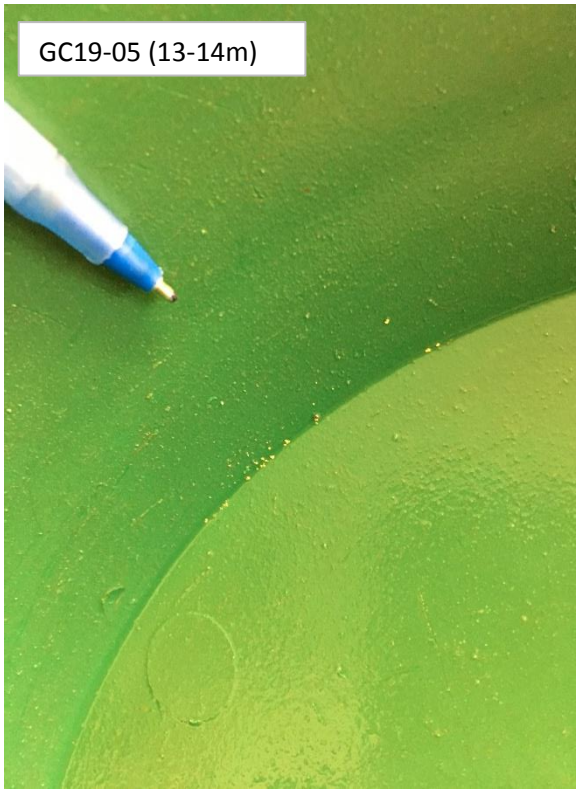


Figure 26 - Photos of placer gold concentrate from GC19-05. The samples are described in the drill log in Appendix 2.

Small Scale Sampling Program

In Target area 2, a small scale bulk sampling program was conducted. Samples 1 and 2 were taken at a depth of 1 m from the surface along a road cut, while Sample 3 was taken at a depth of 5 meters from surface in a nearby excavator test pit. Table 9 shows the details of each bulk sample, which are also plotted on Figure 11.

Excavator Test Pit Stratigraphy

Bulk sample 3 was taken from an excavator test pit just north of bulk samples 1 and 2 (Figure 11). The test pit encountered stratigraphy which consisted of planar-tabular-stratified, sandy pebble gravel and silt, overlain by massive to crudely stratified cobble to boulder gravel and pebbly sand/silt, and cryoturbated pebbly to cobbly massive silt (Figure 27). This is interpreted as a deltaic glaciofluvial sequence overlain by fluvially-reworked ice-marginal till and wind-blown loess. This would be consistent with the surficial geology which is mapped a moraine/glaciofluvial complex (Mx/Gx).



Figure 27 – Interpreted stratigraphy of excavator test pit near the road in Target Area 2.

Sampling Results

Table 9 shows the heavy mineral and gold characteristics form the small scale sampling program. Figure 28 shows gold from two of the samples.

Table 9 – Heavy mineral and gold characteristics of small bulk samples taken from Target area 2.

Bulk Samples July 2019							
DATE	SAMPLE NUMBER	DEPTH	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION	COORDINATES	
					GOLD DESCRIPTION	Latitude	Longitude
July 17, 2019	1	1m	55L	Medium to coarse sand with pebble to cobble, subangular to well rounded, small amount of silt.	Magnetite, pyrite 1 Flake of gold, 1FC (1-12 mesh, 1-80 mesh)	63.85260	-134.997
July 30, 2019	2	1m	46L	Medium to coarse sand with pebble to cobble, subangular to well rounded, small amount of silt.	Magnetite, pyrite 2FC, 50 VFC (2-60 mesh, 50-100 mesh)	63.85260	-134.997
August 03, 2019	3	5m	76L	Medium to coarse sand with pebble to cobble, subangular to well rounded, small amount of silt.	Magnetite, pyrite 15 FC, 100 VFC (15-85 mesh, 100-110 mesh)	63.85293	-134.997

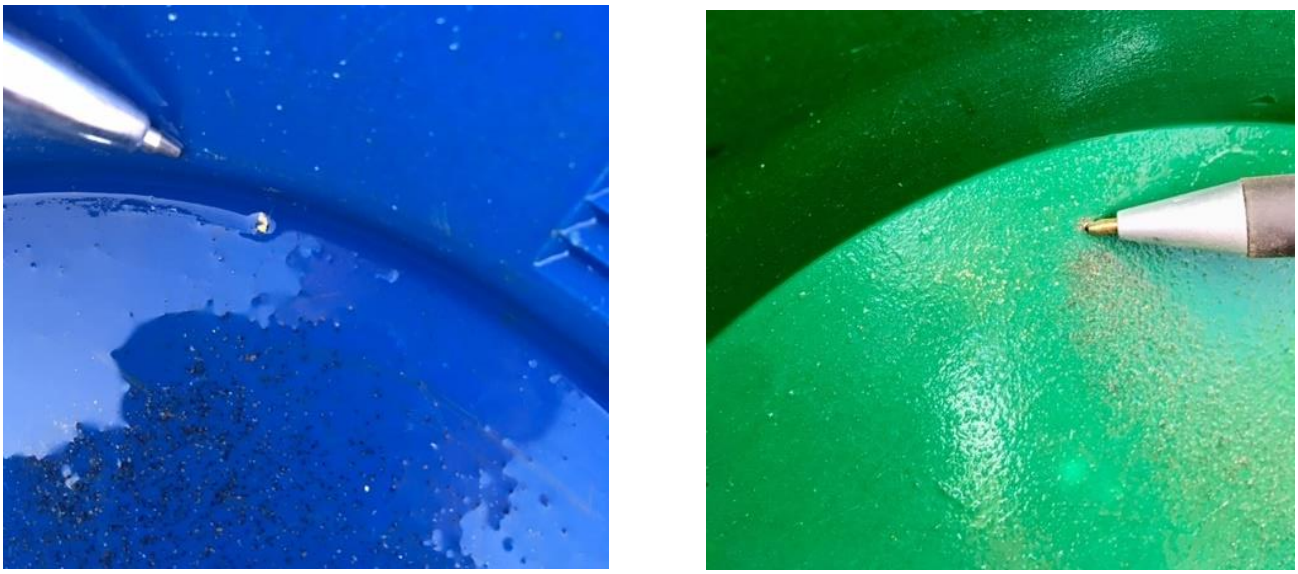


Figure 28 – Placer gold found in the test pit samples. The first picture (blue pan) is from Sample 1, and had a flake and a fine colour. The second photo (green pan) is the gold found in Sample 3.

Conclusions and Recommendations

Areal imagery from drone surveys, resistivity geophysical surveys, R/C drill holes and small scale bulk sampling provided an effective combination of tools to initially evaluate the placer potential of the Granite Creek target areas in 2019.

The drone surveys completed in the area were useful in creating accurate basemaps for the geophysical surveys, drilling and test pitting. They also allowed for a more detailed interpretation of the geomorphology and improved geologic interpretation of surficial deposits.

The resistivity surveys were successful in identifying contacts along contrasting zones of high, moderate and low resistivity. High resistivity values generally correspond with interpreted glacial till, permafrost or colluvium. Low resistivity values on surface are generally associated with surface water or water saturated ground, while low resistivity values at depth can be representative of the bedrock layer.

Resistivity values in the medium range may be interpreted as possible paleochannel alluvial material such as sands or gravel.

The R/C drilling, although limited in scope in this area, assisted in interpreting the subsurface stratigraphy and the bedrock profile. The drilling was also important in evaluating the placer gold content of the lithologies within the stratigraphic column.

Notably, drill hole GC19-04 intercepted a reddish soil-like layer with rounded gravel between 22 and 25 metres. This may be a paleosol from a soil developed on a pre-McConnell (interglacial) alluvial layer, which is highly prospective for placer gold in Granite Creek valley. This target is worthy of more extensive exploration.

As a result of the 2019 exploration program, sixteen new exploration drill targets are proposed, with interpreted depths between 11m and 35m below surface.

Drilling of the proposed targets will enable further calibration of the resistivity surveys, as well as an evaluation of potential placer gold values and their stratigraphic setting.

Further exploration is warranted throughout the entirety of the claims on Granite Creek. This should include drone imagery, resistivity geophysical surveys, and drilling of paleochannel targets using R/C methods. Drill targets which return promising gold results and/or intersect prospective stratigraphy should then be explored by excavator test pitting and large scale bulk sampling.

Statement of Costs – 2019 Exploration Project

Table 10 - Statement of costs for Granite Creek Exploration Project, 2019.

2019 Granite Creek Statement of Costs	Rate	Subtotal	GST	Total
Drill Rig Moves	10 hr @$250/hr	$2,500.00	$125.00	$2,625.00
Drilling, Reverse Circulation, 3 holes	60m @$260/m	$15,600.00	$780.00	$16,380.00
Drill Rig Moves - Driller and helper	12 hr @$150/hr	$1,800.00	$90.00	$1,890.00
D6R bulldozer 12 hours for drill rig moves	12 hr @ $220/hr	$2,640.00	$132.00	$2,772.00
Cat 345B excavator for access construction and test pitting	35 hr @ $240/hr	$8,400.00	$420.00	$8,820.00
Compressor rental	4 days @ $300/day	$1,200.00	$60.00	$1,260.00
Processing of drill samples for placer gold	2 people x 3.5 days @$400/day per person	$2,800.00	$140.00	$2,940.00
Resistivity geophysical surveys - contractor rates	3.75km @$12,000/line km	$45,000.00	$2,250.00	$47,250.00
Geoplacer Exploration Ltd.- Geological mapping, targeting and supervision of drilling and geophysical program, report writing	8 days@$550/day	$4,400.00	$220.00	$4,620.00
Drone imagery survey	6.24 miles@$1000/mile	$6,240.00	$312.00	$6,552.00
Camp costs (YMEP rates)	58 person days@$100/day	$5,800.00	$0.00	$5,800.00
Report Writing	2 people x 3 days @ $400/day per person	$2,400.00	$120.00	$2,520.00
Total		$96,280.00	$4,524.00	$100,804.00

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Statements of Qualifications

William LeBarge

I, William LeBarge, of 13 Tigereye Crescent, Whitehorse, Yukon, Canada, DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist with current address at 13 Tigereye Crescent, Whitehorse, Yukon, Canada, Y1A 6G6.
2. I am a graduate of the University of Alberta (B.Sc., 1985, Geology) and the University of Calgary (M.Sc., 1993, Geology – Sedimentology)
3. I am a Practicing Member in Good Standing (#37932) of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).
4. I have practiced my Profession as a Geologist continuously since 1985.

Dated this 24th day of October, 2019

William LeBarge, P. Geo.



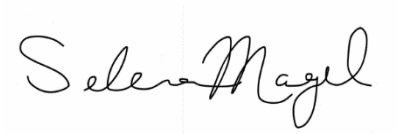
Selena Magel

I, Selena Magel of 210B Strickland Street, Whitehorse, Canada, DO HEREBY CERTIFY THAT:

1. I am a Geologist in Training, registered with APEGA with current address at 210B Strickland Street, Whitehorse, Yukon, Canada Y1A 2J8.
2. I am a graduate of the University of Calgary (B.Sc., 2017, Geology).
3. I have practiced Geology since May 2017.
4. I have conducted and interpreted over 70 km of resistivity surveys since the summer of 2017.

Dated this 24th day of October, 2019

Selena Magel, G. I. T.



Allegra Webb

I, Allegra Webb of Box 27, Site 7, RR#1, Okotoks, AB, DO HEREBY CERTIFY THAT:

1. I am a Geologist in Training with current address at Box 27, Site 7, RR#1, Okotoks, AB.
2. I am a student of the University of Calgary studying geophysics with an expected graduation of 2020.
3. I have conducted and interpreted over 25km of resistivity lines during the summers of 2018 and 2019.

Dated this 24th day of October, 2019

Allegra Webb



Appendix 1 – Drill Log for hole GC18-18

DRILL SAMPLE PROCESSING LOG

DATE DRILLED	Aug 16 2018	**TYPE OF DRILL**	RC	**LOCATION**	Granite
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115 mm	**CLAIM NAME**	BRODIE1
HELPER	Allan Dutchak	**TOTAL DEPTH REACHED**	20 m	**DRILL HOLE NAME**	GC18-18
DATE PROCESSED	Aug 17 2018	**COMPLETED BY**	Selena, Mark, Allan	**METHOD**	Longtom and Pan

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
0-1	9L	Tan coarse sand with sbrndd Grv	1FC		N
1-2	8L	Tan coarse sand with sbrndd Grv	1CC	Lots of Grv	Y
2-3	3L	Gry Cl with coarse sand and Grv	1FC	Wet sample	N
3-4	4L	Gry Cl with coarse sand and Grv	10FC	Wet sample	Y
4-5	17L	Gry Cl with fine-coarse sand and Grv	3FC		Y
5-6	36L	Gry coarse sand with lots of Grv	7 CC, 5FC		Y
6-7	36L	Gry silty sand with ang Grv	3CC, 2 FC		Y
7-8	25L	Gry silt with fine sand and small rounded Grv	1FC		N
8-9	35L	Brown/gry fine sand with rounded Grv	4FC		Y
9-10	35L	Brown/gry coarse sand with Grv	3 small grains, 5CC		Y

DRILL SAMPLE PROCESSING LOG

DATE DRILLED	Aug 16 2018	**TYPE OF DRILL**	RC	**LOCATION**	Granite
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115 mm	**CLAIM NAME**	BRODIE1
HELPER	Allan Dutchak	**TOTAL DEPTH REACHED**	20 m	**DRILL HOLE NAME**	GC18-18
DATE PROCESSED	Aug 17 2018	**COMPLETED BY**	Selena, Mark, Allan	**METHOD**	Longtom and Pan

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
10-11	50L	Gry/brown medium sand with Grv	2 small grains		Y
11-12	35L	gry/brown med-coarse sand with Grv	5 small grains, 5MC		Y
12-13	45L	Gry silty sand with sbrndd Grv	1CC, 3FC		Y
13-14	30L	gry silty coarse sand with Grv	3 small grains, 5CC, 3 FC		Y
14-15	30L	gry silty coarse sand with Grv	1 Gr, 20CC		Y
15-16	54L	Tan well sorted sand with well rounded Grv	2 lrg Gr, 1 small Gr, 10MC, fines		Y
16-17	54L	Tan well sorted sand with well rounded Grv	2 small pieces, 15MC		Y
17-18	39L	tan silty fine sand, not much Grv	1 sm flake, 20MC		Y
18-19	55L	tan silty fine sand, not much Grv	8MC		Y
19-20	55L	tan silty fine sand, not much Grv	1 large Gr, 4CC, 10MC		Y

Appendix 2 – 2019 Granite Creek Drill Logs in Target Area 1

DRILL SAMPLE PROCESSING LOG

CLAIM NAME	Brodie 5	**DRILL HOLE NAME**	**GC19-04a**		
DATE DRILLED	June 29 2019	**TOTAL DEPTH REACHED**	14m	**DATE PROCESSED**	Jun 29 2019
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115mm	**COMPLETED BY**	geos
HELPER	Allan Dutchak	**TYPE OF DRILL**	RC	**METHOD**	Letrap

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
0-2	18L	Tan rock chips and medium sand	magnetite, pyrite, Hem / 1FC, 6 VFC		Y
2-3	17L	Some rock powder grey sand with ang chips and gravel	magnetite, pyrite / 2FC, 4VF		Y
3-4	28L	Grey fine sand with rock chips and gravel	Magnetite, pyrite / 2VF		N
4-5	25L	Grey fine sand with rock chips and gravel	magnetite, pyrite / 3FC, 10VFC		Y
5-6	25L	Grey fine sand with rock chips and gravel	pyrite, magnetite / 2MC, 5FC		Y
6-7	34L	Fine sand with rounded gravel	magnetite, pyrite, Hem / 4MC, 10FC	wet sample	Y
7-8	30L	Fine sand with rounded gravel	magnetite, pyrite, Hem / 3MC, 4FC		Y
8-9	25L	Grey silty sand with small ang gravels	magnetite, pyrite / 4MC, 12FC	0.002g	Y
9-10	38L	Grey silty sand with small ang gravels	magnetite, pyrite / 1MC, 5FC	wet sample	Y

DRILL SAMPLE PROCESSING LOG

CLAIM NAME	Brodie 5		**DRILL HOLE NAME**	**GC19-04a**	
DATE DRILLED	June 29 2019	**TOTAL DEPTH REACHED**	14m	**DATE PROCESSED**	Jun29 2019
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115mm	**COMPLETED BY**	geos
HELPER	Allan Dutchak	**TYPE OF DRILL**	RC	**METHOD**	Letrap

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
10-11	35L	Grey silty coarse sand with ang pebbles	pyrite, magnetite / 4MC, 5FC		Y
11-12	23L	Grey fine sand with silty pebble	magnetite, pyrite / 1CC, 8MC, 20FC	Weight 0.020g	Y
12-13	32L	Tan fine silty sand with small gravels	pyrite, magnetite / 5MC, 20FC, 20VFC	Weight 0.009g	Y
13-14	26L	Tan fine to coarse sand with ang gravel	ilmenite, pyrite, magnetite / 5MC, 20FC, 20VFC	Weight 0.004g	Y
The drill shoe broke off. Bumped south 5 ft. GC19-04b continues immediately below					
15-16	38L	Grey silt with sand and sub angular gravel	pyrite, magnetite / 1MC, 5FC		Y
16-17	26L	Grey silty sand with small pebbles	pyrite, magnetite, hem / 1MC, 8FC		Y
17-18	7L	Brown silty fine sand with sub ang gravels	pyrite, magnetite / no gold		N
18-19	20L	Grey silty fine sand with sub. Ang gravels	pyrite, magnetite / no gold		N

DRILL SAMPLE PROCESSING LOG

CLAIM NAME	Brodie 5		**DRILL HOLE NAME**	**GC19-04b**	
DATE DRILLED	June 29 2019	**TOTAL DEPTH REACHED**	25m	**DATE PROCESSED**	Jun29 2019
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115mm	**COMPLETED BY**	geos
HELPER	Allan Dutchak	**TYPE OF DRILL**	RC	**METHOD**	Letrap

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
19-20	58L	Tan silty sand with subrounded gravel	pyrite, magnetite / 2FC		Y
20-21	30L	Grey(greenish) coarse to fine sand with silt and pebbles	pyrite, magnetite / 1MC	possible glacial material	Y
21-22	76L	Brown-grey small pebbles and coarse to fine sand (grit)	pyrite, magnetite / no gold	not soil	N
22-23	60L	Reddish grey orange fine-coarse sand with silt and small gravel	Rounded Quartz sand, small amount of magnetite / no gold	soil material?	N
23-24	75L	Orange -brown fine-coarse sand with sily and small gravel	pyrite, magnetite, scheelite / no gold	soil material?	Y
24-25	40L	Orange-ish to brown fine sand with silt and small rounded gravel	pyrite, magnetite, scheelite / no gold	soil material?	Y

DRILL SAMPLE PROCESSING LOG

CLAIM NAME	Pilkey		**DRILL HOLE NAME**	**GC19-05**	
DATE DRILLED	01-Jul-01	**TOTAL DEPTH REACHED**	19m	**DATE PROCESSED**	02-Jul-19
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115mm	**COMPLETED BY**	Geos
HELPER	Allan Dutchak	**TYPE OF DRILL**	RC	**METHOD**	Le Trap

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
0-2	20L	Brown silty sand with ang pebbles	pyrite, magnetite / 1CC		Y
2-3	14L	Light grey ang gravel with silty sand	pyrite, magnetite / no gold		N
3-4	20L	Light grey silty sand with ang pebbles	pyrite, magnetite / no gold		N
4-5	20L	Light grey silty sand with ang pebbles	pyrite, magnetite / no gold		N
5-6	14L	Light grey silty sand with ang pebbles	pyrite, magnetite / 2MC, 2FC		Y
6-7	28L	Light grey silty sand with ang pebbles	pyrite, magnetite / 2MC, 12FC		Y
7-8	33L	Grey silty sand with small pebbles	pyrite, magnetite / 3MC, 8FC	0.004g	Y
8-9	18L	Grey silty sand with small pebbles	pyrite, magnetite / 1MC, 2FC		Y
9-10	33L	Grey silty sand with gravel	pyrite, magnetite / 1MC, 5FC		Y
10-11	38L	Grey silty sand with gravel and pebble	pyrite, magnetite / 2MC,5FC		Y
11-12	20L	Grey silty sand with pebbles	pyrite, magnetite / 3MC, 6FC, 8VFC	0.005g	Y

DRILL SAMPLE PROCESSING LOG

CLAIM NAME	Pilkey		**DRILL HOLE NAME**	**GC19-05**	
DATE DRILLED	01-Jul-01	**TOTAL DEPTH REACHED**	19m	**DATE PROCESSED**	02-Jul-19
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115mm	**COMPLETED BY**	Geos
HELPER	Allan Dutchak	**TYPE OF DRILL**	RC	**METHOD**	Le Trap

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION / GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
12-13	45L	Grey powdery silty sand with pebbles	pyrite, magnetite 4MC, 10FC	0.001g	Y
13-14	30L	Grey powdery silty sand with pebbles	pyrite, magnetite 3MC, 20FC	0.005g	Y
14-15	33L	Grey powdery silty sand with pebbles	pyrite, magnetite 1CC, 12FC		Y
15-16	38L	Grey silty sand with sbrndd gravel	pyrite, magnetite 15FC		Y
16-17	35L	Grey silty sand with sbrndd gravel	pyrite, magnetite 5FC		Y
17-18	30L	Brown coarse sand with lots of subrounded gravel	pyrite, magnetite, rusty concentrate 2FC		Y
18-19	6L	Brown powdery sand with gravel	pyrite, magnetite 1FC		Y

DRILL SAMPLE PROCESSING LOG

CLAIM NAME	Pilkey		**DRILL HOLE NAME**	**GC19-06**	
DATE DRILLED	02-Jul-19	**TOTAL DEPTH REACHED**	16m	**DATE PROCESSED**	02-Jul-19
DRILLER	Mark Bayne	**INSIDE DIAMETER OF DRILL**	115mm	**COMPLETED BY**	Geos
HELPER	Allan Dutchak	**TYPE OF DRILL**	RC	**METHOD**	Le Trap

DEPTH (m)	SAMPLE SIZE	LITHOLOGY DESCRIPTION	FINAL CONCENTRATE DESCRIPTION GOLD DESCRIPTION	COMMENTS	SAMPLE ON FILE (Y/N)
0-2	16L	Brown fine to medium sand with gravel	Pyrite, magnetite no gold		N
2-3	20L	Grey silty sand with small gravel	Pyrite, magnetite no gold		N
3-4	37L	Grey silty sand with small gravel and pebbles	Pyrite, magnetite, scheelite 1FC		N
4-5	32L	Grey silty sand with ang pebbles	Pyrite, magnetite no gold		N
5-6	20L	Grey powdery silty sand with small pebbles	Pyrite, magnetite, scheelite 1CC, 1FC		Y
6-7	35L	Grey powdery silty sand with small pebbles	Pyrite, magnetite 1CC, 4FC		Y
7-8	18L	Grey silty sand with small pebbles	Pyrite, magnetite, scheelite 2FC		N
8-9	36L	Grey silty sand with small pebbles	Pyrite, magnetite, scheelite 2FC, 2VFC		N
9-10	36L	Grey silty sand with small pebbles	Pyrite, magnetite 1FC		N
10-11	30L	Grey silty sand with small pebbles	Pyrite, magnetite 2FC, 6VFC		Y
11-12	35L	Silty sand with pebbles	Pyrite, magnetite 1MC, 6FC		Y
12-13	39L	Silty sand with gravel	Pyrite, magnetite 2MC, 10FC, 10VFC	0.006g	Y
13-14	17L	Grey silty fine-coarse sand with small pebbles	Pyrite, magnetite 2FC		N
14-15	4L	Silty sand with tiny grey pebbles	Pyrite, magnetite 1FC		N
15-16	6L	Grey silty sand with pebbles	Pyrite, magnetite 1FC		N

Appendix 3 – Granite Creek and tributaries - Active claims of Earth & Iron Inc. and Affiliates

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524010	Active	Dean 1	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524011	Active	Dean 2	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524012	Active	Dean 3	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524013	Active	Dean 4	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524014	Active	Dean 5	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524015	Active	Dean 6	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524016	Active	Dean 7	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524017	Active	Dean 8	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524018	Active	Dean 9	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524019	Active	Dean 10	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524020	Active	Dean 11	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524021	Active	Dean 12	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524022	Active	Dean 13	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524023	Active	Dean 14	Dean Gray Enterprises Ltd. - 100%	7/13/2017	7/24/2017	11/1/2020
P 524024	Active	Dean 15	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524025	Active	Dean 16	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524026	Active	Dean 17	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524027	Active	Dean 18	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524028	Active	Dean 19	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524029	Active	Dean 20	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524030	Active	Dean 21	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524031	Active	Dean 22	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524032	Active	Dean 23	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524033	Active	Dean 24	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524034	Active	Dean 25	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524035	Active	Dean 26	Dean Gray Enterprises Ltd. - 100%	7/14/2017	7/24/2017	11/1/2020
P 524187	Active	Gold 1	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524188	Active	Gold 2	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524189	Active	Gold 3	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524190	Active	Gold 4	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524191	Active	Gold 5	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524192	Active	Gold 6	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524193	Active	Gold 7	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524194	Active	Gold 8	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524195	Active	Gold 9	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524196	Active	Gold 10	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524197	Active	Gold 11	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524198	Active	Gold 12	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524199	Active	Gold 13	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524200	Active	Gold 14	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524201	Active	Gold 15	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524202	Active	Gold 16	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524203	Active	Gold 17	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524204	Active	Gold 18	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524205	Active	Gold 19	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524206	Active	Gold 20	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524207	Active	Gold 21	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524208	Active	Gold 22	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524209	Active	Gold 23	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524210	Active	Gold 24	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524211	Active	Gold 25	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020
P 524212	Active	Gold 26	Earth & Iron Inc. - 100%	8/16/2017	8/30/2017	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524213	Active	Gold 27	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524214	Active	Gold 28	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524215	Active	Gold 29	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524216	Active	Gold 30	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524217	Active	Gold 31	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524218	Active	Gold 32	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524219	Active	Gold 33	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524220	Active	Gold 34	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524221	Active	Gold 35	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524222	Active	Gold 36	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524223	Active	Gold 37	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524224	Active	Gold 38	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524225	Active	Gold 39	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524226	Active	Gold 40	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524227	Active	Gold 41	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524228	Active	Gold 42	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524229	Active	Gold 43	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524230	Active	Gold 44	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524231	Active	Gold 45	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524232	Active	Gold 46	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524233	Active	Gold 47	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524234	Active	Gold 48	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524235	Active	Gold 49	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524236	Active	Gold 50	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524237	Active	Gold 51	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524238	Active	Gold 52	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524239	Active	Gold 53	Earth & Iron Inc. - 100%	8/17/2017	8/30/2017	11/1/2020
P 524423	Active	Lake 2	Earth & Iron Inc. - 100%	5/19/2018	5/29/2018	5/29/2023

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524993	Active	Susan 1	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 524994	Active	Susan 2	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 524995	Active	Susan 3	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 524996	Active	Susan 4	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 524997	Active	Susan 5	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 524998	Active	Susan 6	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 524999	Active	Susan 7	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 525000	Active	Susan 8	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 525001	Active	Susan 9	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 525002	Active	Susan 10	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 525003	Active	Susan 11	Earth & Iron Inc. - 100%	8/31/2018	9/14/2018	11/1/2020
P 513956	Active	Earth 1	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513957	Active	Earth 2	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513958	Active	Earth 3	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513959	Active	Earth 4	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513960	Active	Earth 5	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513961	Active	Earth 6	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513962	Active	Earth 7	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513963	Active	Earth 8	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513964	Active	Earth 9	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 513965	Active	Earth 10	Earth & Iron Mines Inc. - 100%	7/22/2017	7/24/2017	11/1/2020
P 524684	Active	Ash 1	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524685	Active	Ash 2	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524686	Active	Ash 3	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524687	Active	Ash 4	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524688	Active	Ash 5	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524689	Active	Ash 6	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524690	Active	Ash 7	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524691	Active	Ash 8	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524692	Active	Ash 9	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524693	Active	Ash 10	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524694	Active	Ash 11	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524695	Active	Ash 12	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524696	Active	Ash 13	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524697	Active	Ash 14	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524698	Active	Ash 15	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524699	Active	Ash 16	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524700	Active	Ash 17	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524701	Active	Ash 18	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524702	Active	Ash 19	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524703	Active	Ash 20	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524704	Active	Ash 21	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524705	Active	Ash 22	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524706	Active	Ash 23	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524707	Active	Ash 24	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524708	Active	Ash 25	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524709	Active	Ash 26	Earth & Iron Mines Inc. - 100%	7/9/2018	7/17/2018	11/1/2020
P 524710	Active	Alex 1	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524711	Active	Alex 2	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524712	Active	Alex 3	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524713	Active	Alex 4	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524714	Active	Alex 5	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524715	Active	Alex 6	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524716	Active	Alex 7	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524717	Active	Alex 8	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524718	Active	Alex 9	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524719	Active	Alex 10	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524720	Active	Alex 11	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524721	Active	Alex 12	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524722	Active	Alex 13	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524723	Active	Alex 14	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524724	Active	Alex 15	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524725	Active	Alex 16	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524726	Active	Alex 17	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524727	Active	Alex 18	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524728	Active	Alex 19	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524729	Active	Alex 20	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524730	Active	Alex 21	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524731	Active	Alex 22	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524732	Active	Alex 23	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524733	Active	Alex 24	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524734	Active	Alex 25	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524735	Active	Alex 26	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 524736	Active	Alex 27	Earth & Iron Mines Inc. - 100%	7/13/2018	7/17/2018	11/1/2020
P 525004	Pending	Discovery	Earth & Iron Mines Inc. - 100%	9/1/2018	9/14/2018	11/1/2020
P 524264	Active	Roady 1	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524265	Active	Roady 2	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524266	Active	Roady 3	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524267	Active	Roady 4	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524268	Active	Roady 5	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524269	Active	Roady 6	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524270	Active	Roady 7	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524271	Active	Roady 8	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524272	Active	Roady 9	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524273	Active	Roady 10	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524274	Active	Roady 11	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524275	Active	Roady 12	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524276	Active	Roady 13	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524277	Active	Roady 14	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524278	Active	Roady 15	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524279	Active	Roady 16	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524280	Active	Roady 17	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524281	Active	Roady 18	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524282	Active	Roady 19	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524283	Active	Roady 20	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524284	Active	Roady 21	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524285	Active	Roady 22	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524286	Active	Roady 23	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524287	Active	Roady 24	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524288	Active	Roady 25	Earth & Iron Projects Inc. - 100%	8/19/2017	8/30/2017	11/1/2020
P 524289	Active	Roady 26	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524290	Active	Roady 27	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524291	Active	Roady 28	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524292	Active	Roady 29	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524293	Active	Roady 30	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524294	Active	Roady 31	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524295	Active	Roady 32	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524296	Active	Roady 33	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524297	Active	Roady 34	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524298	Active	Roady 35	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524299	Active	Roady 36	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524300	Active	Roady 37	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 524301	Active	Roady 38	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524302	Active	Roady 39	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524303	Active	Roady 40	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524304	Active	Roady 41	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524305	Active	Roady 42	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524306	Active	Roady 43	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524307	Active	Roady 44	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524308	Active	Roady 45	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524309	Active	Roady 46	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524310	Active	Roady 47	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524311	Active	Roady 48	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524312	Active	Roady 49	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524313	Active	Roady 50	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524314	Active	Roady 51	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524315	Active	Roady 52	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524316	Active	Roady 53	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524317	Active	Roady 54	Earth & Iron Projects Inc. - 100%	8/20/2017	8/30/2017	11/1/2020
P 524420	Pending	S.G. 1	Earth & Iron YT Inc. - 100%	5/17/2018	5/29/2018	11/1/2023
P 509041	Active	BRODIE 1	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2022
P 509042	Active	BRODIE 2	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2022
P 509043	Active	BRODIE 3	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2022
P 509044	Active	BRODIE 4	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2022
P 509045	Active	BRODIE 5	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2022

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 509046	Active	BRODIE 6	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2022
P 509047	Active	BRODIE 7	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021
P 509048	Active	BRODIE 8	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/13/2011	8/16/2011	11/1/2021
P 524049	Active	Chris	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/1/2017	8/2/2017	11/1/2020
P 524053	Active	Mike	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/1/2017	8/3/2017	11/1/2020
P 524052	Active	Pilkey	James (Jim) Davies - 50%, Earth & Iron Mines Inc. - 50%	8/1/2017	8/3/2017	11/1/2020
P 524421	Pending	S.G. 2	Stuart Gray - 100%	5/17/2018	5/29/2018	11/1/2023
P 524422	Active	Lake 1	Stuart Gray - 100%	5/19/2018	5/29/2018	5/29/2023
P 525005	Active	Elias 1	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525006	Active	Elias 2	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525007	Active	Elias 3	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525008	Active	Elias 4	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525009	Active	Elias 5	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525010	Active	Elias 6	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525011	Active	Elias 7	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525012	Active	Elias 8	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525013	Active	Elias 9	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525014	Active	Elias 10	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525015	Active	Elias 11	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525016	Active	Elias 12	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525017	Active	Elias 13	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525018	Active	Elias 14	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525019	Active	Elias 15	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 525020	Active	Elias 16	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525021	Active	Elias 17	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525022	Active	Elias 18	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525023	Active	Elias 19	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525024	Active	Elias 20	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525025	Active	Elias 21	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525026	Active	Elias 22	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525027	Active	Elias 23	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525028	Active	Elias 24	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525029	Active	Elias 25	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525030	Active	Elias 26	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525031	Active	Elias 27	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525032	Active	Elias 28	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525033	Active	Elias 29	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525034	Active	Elias 30	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525035	Active	Elias 31	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525036	Active	Elias 32	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525037	Active	Elias 33	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525038	Active	Elias 34	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525039	Active	Elias 35	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525040	Active	Elias 36	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525041	Active	Elias 37	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525042	Active	Elias 38	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525043	Active	Elias 39	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525044	Active	Elias 40	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525045	Active	Elias 41	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525046	Active	Elias 42	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525047	Active	Elias 43	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020

GRANT NUMBER	STATUS	CLAIM NAME	OWNER NAME	STAKING DATE	RECORDED DATE	EXPIRY DATE
P 525048	Active	Elias 44	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525049	Active	Elias 45	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525050	Active	Elias 46	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525051	Active	Elias 47	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525052	Active	Elias 48	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525053	Active	Elias 49	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525054	Active	Elias 50	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525055	Active	Elias 51	Stuart Gray - 100%	9/6/2018	9/14/2018	11/1/2020
P 525186	Pending	Lewdog 1	Stuart Gray - 100%	8/25/2019	8/27/2019	8/27/2020
P 525187	Pending	Lewdog 2	Stuart Gray - 100%	8/25/2019	8/27/2019	8/27/2020
P 525188	Pending	Lewdog 3	Stuart Gray - 100%	8/25/2019	8/27/2019	8/27/2020
P 525189	Pending	Lewdog 4	Stuart Gray - 100%	8/25/2019	8/27/2019	8/27/2020
P 525190	Pending	Lewdog 5	Stuart Gray - 100%	8/25/2019	8/27/2019	8/27/2020

Appendix 4 – Drone Images

